



**PONNAIYAH RAMAJAYAM INSTITUTE OF
SCIENCE & TECHNOLOGY (PRIST)**

Declared as DEEMED-TO-BE-UNIVERSITY
U/s 3 of UGC Act, 1956

ACADEMIC YEAR
2023-2024

Board of studies

Minutes of Meetings

Department of Business
Management

Date: 26.06.2023



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MEMBERS OF THE SIXTEENTH BOARD OF STUDIES MEETING

Board: Business Management

Date: 26/06/2023

Time: 11.30 AM

Venue: PSB Block

The following members were present for the Board of Studies meeting

S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Online/ Physical
1.	Dr.S.Rajendran, HOD M.Com.,MBA., M.Phil.,M.Ed., Ph.D Professor & Head Department of Commerce	<u>Chairman</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
2.	Dr.N.S.Shibu MBA., M.Phil.,Ph.D Associate Professor, Department of Management studies	<u>External Member</u> Centre for Distance & Online Education Bharathidasan University Thiruchirappalli-24	Physical
3.	<u>Mr. S.Ravi</u> B.Sc., MA., B.Ed Internal Agency Partner	<u>External Member</u> Internal Agency partner Kotak Mahindra Life Insurance Company Limited No.31,1 st Floor,Nanjikottai Road,Marys Corner, Thanjavur - 613001	Physical
4.	Dr.K.Rajalakshmi MBA., M.Phil., Ph.D Professor	<u>Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
5.	Dr. R.Swaminathan	<u>Professor</u>	Physical



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		Thanjavur		
5.	Dr. R.Sivaminathan MBA., M.Phil., Ph.D	<u>Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
6.	Dr.P.Balasubramani MBA., M.Phil., Ph.D	<u>Associate Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
7.	Dr.M.Kalamurugan MBA., M.Phil., Ph.D	<u>Associate Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
8.	Dr.M.Vijay MBA., M.Phil., Ph.D	<u>Assistant Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
9.	Mrs.C.Linda MBA., M.Phil (Ph.D)	<u>Assistant Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
10.	R.Anuradha MBA., Assistant Professor	<u>Alumina</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	



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11.	S.Subiksha III BBA Student	<u>Student Representatives</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
12.	S.Jethika I MBA Student	<u>Student Representatives</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
13.	Dr.K.Arivukkani Ph.D HOD, Assistant Professor Department of Tamil	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	 26/6/2023
14.	S.Rasakumar MA., M.Phil. Assistant Professor Department of English	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	 26/6/2023
15.	Ms.M.Aarthi MCA, M.Phil, M.Tech, Assistant Professor Department of Computer Science	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	 26/6/2023
16.	Dr.D.R.Kirubakaran Ph.D Associate Professor Department of Mathematics	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	 26/6/2023



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Date: 26.06.2023

Online meeting link:


BOS Chairman/HOD
HOD
Department of Commerce
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)

NOTE:

Mandatory Attachments:

1. Minutes of the previous BoS meeting minutes and report on the follow-up action taken.
2. BoS Meeting 'Notification' sent to all members, including online meeting link.
3. Online Screenshots and geo-tagged photos in the venue.
4. Attendance sheet print of online attendees.
5. Detailed syllabi with PEOs, POs, COs, etc. (in Annexures), if new Programme(s) introduction / Curriculum revision is discussed.



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Teams call

Read / Unread

Board of Studies Meeting - Intimation and Requisition to attend-reg.

1 attachment

SN shibu natarajan <natarajan_shibu@rediffmail.com>
To: DEAN PSB THANJAVUR
Sat 01/07/2023 12:50

Respected sir

At the outset let me thank you for having invited me for the BOS meeting.
I hereby accept to be as a member.
I also assure you to be present in the meeting

Thankyou
Regards

Dr. SHIBU N S
Department of Management studies
CDOE, Bharathidasan University Trichy-24
9443834718

Yes, I accept. Thank you for your confirmation. I will be attending.

12:18 PM
7/25/2023



SCHOOL OF COMMERCE AND MANAGEMENT

DEPARTMENT OF BUSINESS MANAGEMENT

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)*

Board: Business Management

The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	Business Management
Meeting no	16
Date and Time	26.06.2023 and 11.00 am
Venue	PSB Block
Members Attended	The details are given in the ANNEXURE-I

AGENDA

1	To confirm the minutes of BOS meeting held on 06.05.2022
2	Action taken on the previous Meeting Minutes.
3	Discussion on the development of the BBA Management New Curriculum under R 2023
4	Discussion on the development of the MBA Management New Curriculum under R 2023
5	Discussion on Value added courses
6	Discussion on Four years Under Graduate Programme (FYUGP) BBA Hons
7	Any other matters Panel of examiner (ug/Pg)



MINUTES OF THE BOARD OF STUDIES MEETING

Board: Business Management

The 16th Board of Studies Meeting of the Department of Business Management, School of Commerce and Management, Ponnaiyah Ramajayam Institute of Science and Technology was conducted as per the guidelines of the University Grants Commission on 26.6.2023 at 11.00 am offline mode. The following Members were present in the meeting.

Dr.S.Rajendran, Chairman of the Board of Studies Meeting welcomed the Members and in her introducing speech, he explained the details of the Agenda and the academic matters to be discussed. The agenda of the meeting was taken up for discussion. The following points were discussed during the meeting. The resolutions made in the Meeting are given below.

The committee appreciated the formulation of syllabus for BBA & MBA programme to meet out the criteria of the Education Empowerment and Social Relevance. In Addition, the Committee suggested the following corrections/modifications/ Suggestions in the Programme syllabus

- Programme outcomes (PO) and Programme Specific Outcomes (PSO) to be restructured.
- Course Outcomes (CO) to be restructured for all the Courses.
- Recent reference books to be included in each course.

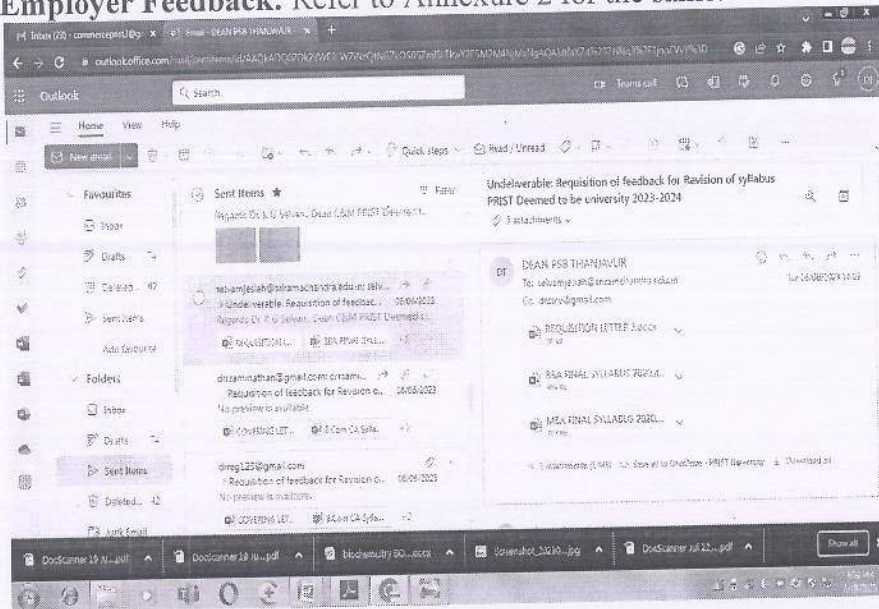


AGENDA	
1	Agendum 1: To confirm the minutes of BOS meeting held on 06.05.2022
	Discussion: The minutes of the Board of Studies meeting held on 06 th May, 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
	Resolution: The Board resolved to accept the same.
2	Agendum 2: Action taken on the previous Meeting Minutes.

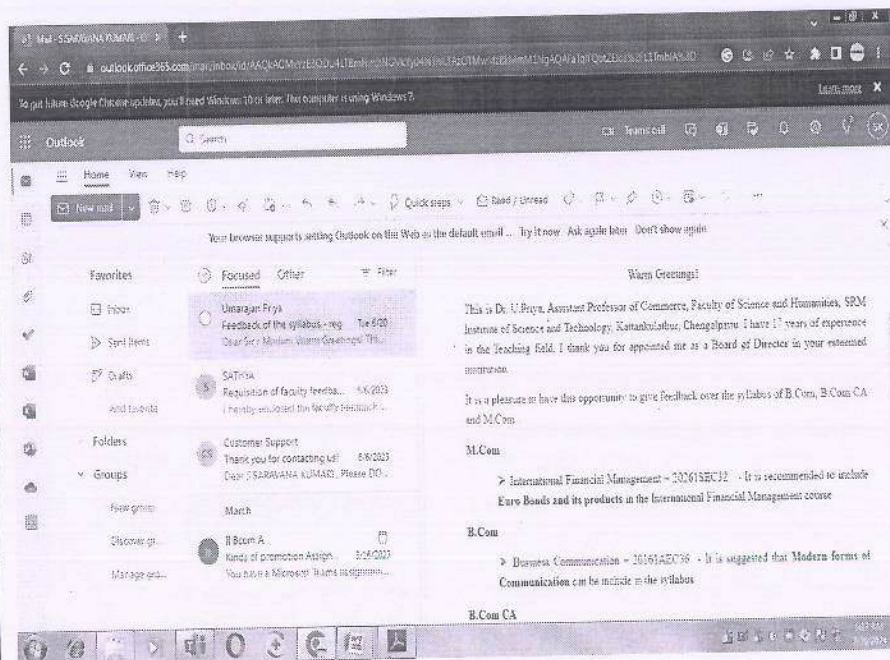


Discussion: Action taken report of the decisions made in the previous BOS and approved by the academic council. Action taken report was presented in the BOS.
Alumni feedback: Refer to Annexure I for the same.

Employer Feedback: Refer to Annexure 2 for the same.

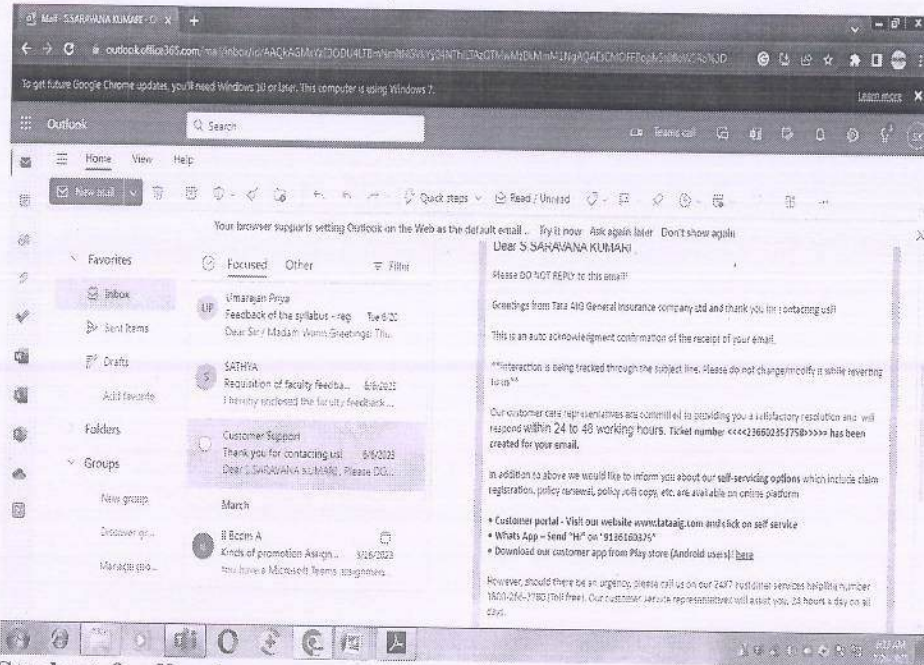


Faculty feedback:

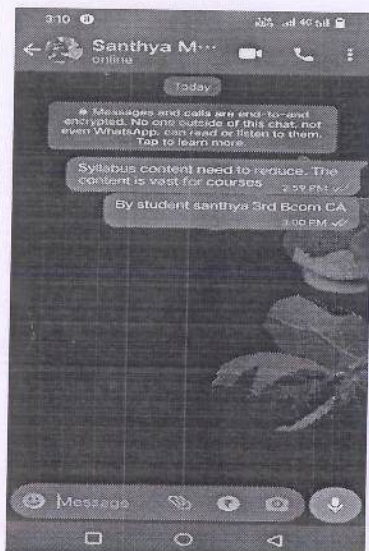




Industrialist feedback:



Student feedback:






DEPARTMENT OF BUSINESS MANAGEMENT
Action taken report

1. Summary of the feedback obtained

S.No	Feedback statement	Stakeholder	Action (Yes/No)
1	More number of industrial visits can be arranged	Alumni	yes
2	Syllabus content need to be reduced. The content is vast for some of the courses.	Students	Yes
3	Satisfied with the content of current syllabus. Accounting chapters can be identified and included in the syllabus for two semester.	Employer	yes
	MBA Specialization fully changed more advanced syllabus content can be included.		
4	Soft skills courses and industry based curriculum to be added in the syllabus.	Teacher	yes



	<p>2. Action to be taken / Action taken on specific feedback</p> <ul style="list-style-type: none">• Faculty Members Are advised to take students to industrial visits for their courses. <p>Feedback statement :</p> <ul style="list-style-type: none">• Syllabus content need to be reduced. The content is vast for some of the courses. <div style="border: 1px solid black; padding: 5px;"><p>2. Action to be taken / Action taken on specific feedback</p><ul style="list-style-type: none">• Faculty Members Are advised to take students to industrial visits for their courses.<p>Feedback statement :</p><ul style="list-style-type: none">• Syllabus content need to be reduced. The content is vast for some of the courses.<p>ACTION TAKEN:</p><ul style="list-style-type: none">• Satisfied with the content of current syllabus. Accounting chapters can be identified and included in the syllabus for two semester.• MBA Specialization fully changed more advanced syllabus content can be included.• Soft skills courses and industry based curriculum to be added in the syllabus<p>FEEDBACK STATEMENT:</p><ul style="list-style-type: none">• Soft skills courses and industry based curriculum to be added in the syllabus and most advanced syllabus content to be included in ug/pg</div> <p style="text-align: center;"> DEAN School of Commerce and Management Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Thanjavur - 613 403.</p>
3	<p>Agendum 3: Discussion on the development of the BBA Management New Curriculum under R 2023</p>
	<p>Discussion:</p> <p>A draft curriculum for BBA Management was proposed with modification to committee and the following points were discussed.</p> <ul style="list-style-type: none"><input type="checkbox"/> The members wanted to confirm the total number of credits accounting for 162.<input type="checkbox"/> The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSICHE) requirements and will put forth this to the



Academic Council.

New Course introduced: UG programme

- 23160 AEC13- Principles of Management
- 23160 AEC14- Accounting for Managers I
- 23160 GEC15- Managerial Economics
- 23160 GEC16- Business communication
- 23160 AEC23- Accounting for Managers II
- 23160 AEC24- International Trade
- 23160 GEC25- Business Environment
- 23160 GEC26- Organizational Behaviour
- 23160 AEC33- Entrepreneurial Development
- 23160 AEC34- Marketing Management
- 23160 GEC35- Business Statistics
- 23160 GEC36- Human Resource Management
- 23160AEC43 - Business Regulatory Frame Work
- 23160AEC44 - Financial Services
- 23160GEC45 - Management Information System
- 23160GEC46 - Operation Research
- 23160AEC51 - Advertising Management and Sales Promotion
Total Quality Management
- 23160AEC52 - Operations Management
- 23160AEC53 - Financial Management
- 23160DSE54 - Digital Marketing
- 23160DSE54 - Industrial Relations
- 23160DSE55 -Financial Literacy
- 23160DSC55 – Strategic Management
- 23160AEC61 - Material Management
- 23160AEC62 - Services Marketing
- 23160AEC63 - Business Taxation
- 23160DSE64A - Consumer Behaviour
- 23160DSE64B - Competency Mapping
- 23160DSE65 - Security Analysis Portfolio Management
- 23160DSE65 -A Logistics and Supply Chain Management
- 23160DSE65B - E-Business

Skill Enhancement Course

- 23160 SEC1-Basics of Event Management
- 23160 SEC2- Managerial Skill Development
- 23160SEC3- Business Etiquette and Corporate Grooming
- 23160 SEC4- Computer Applications in Business



- 23160 SEC5- Entrepreneurial Skill New Venture Management
- 23160 SEC6-Tally
- 23160 SEC7- Intellectual Property Rights
- **Ability Enhancement Compulsory course**
- 23160AECC 2- Communication Skills/ EVS
- 23160 AECC 1- Indian Constitution
- 23160 AECC 3- Research Methodology
- 23160 AECC 4- Participation In Bounded Research
- **AUDIT COURSE**
- 231LSCUV- Universal Human Values
- 231SSCBE- Basic Behavioral Etiquette
- 231LSCOA- Office Automation
- 231LSCLS- Leadership and Management Skills
- 231ACLSPSL- Professional Skills

BACHELOR OF BUSINESS ADMINISTRATION

Course Structure-2023

BBA - REGULATION 2023

Course Code	Course Title	L	T	P	C
23110AEC11/ 23111AEC11/ 23132AEC11/ 23135AEC11	Tami – I/Advanced English-I/Hindi-I/ French - I	3	0	0	3
23111AEC12	English-I	3	0	0	3
23160AEC13	Principles of Management	4	0	0	4
23160AEC14	Accounting for Managers I	4	0	0	4
23160GEC15	Managerial Economics	4	0	0	3
23160GEC16	Marketing Management	4	0	0	3
Skill Enhancement Course					
23160SEC17	Managerial Skill Development (NME)	2	0	0	2
23160SEC18	Foundation course/Bridge Course	2	0	0	2
Ability Enhancement Compulsory Course (AECC1)					
231AECCINC	Indian Constitution	2	0	0	2



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231LSCUV	Universal Human Values	-	-	-	1
	Total	28			26
SEMESTER-II					



Course Code	Course Title	L	T	P	C
23110AEC21/ 23111AEC21/ 23132AEC21/ 23135AEC21	Tamil – II/ Advanced English-II/Hindi-II/ French – II	3	0	0	3
23111AEC22	English-II	3	0	0	3
23160AEC23	Business communication	4	0	0	3
23160AEC24	Accounting for Managers II	4	0	0	3
23160GEC25	International Trade	4	0	0	3
23160GEC26	Business Ethics	3	0	0	3
Skill Enhancement Course					
23160SEC27	E-Business (NME)	2	0	0	2
23160SEC28	Elements of Insurance	2	0	0	2
Ability Enhancement Compulsory Course (AECC2)					
231AECCCMS	Communication Skills	2	0	0	2
231SSCBE	Basic Behavioral Etiquette	0	0	0	1
Total		30			25
SEMESTER – III					
Course Code	Course Title	L	T	P	C
23110AEC31/ 23132AEC31/ 23111AEC31/ 23135AEC31	Tamil – III/Hindi-III/Advanced English-III/ French – III	3	0	0	3
23111AEC32	English-III	3	0	0	3
23160AEC33	Business Environment	4	0	0	3
23160AEC34	Organizational Behaviour	4	0	0	3



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23160 GEC35	Business Statistics	3	0	0	2
23160GEC36	Computer Application in Business	3	0	0	2
Skill Enhancement Course					
23160SEC37	Intellectual Property Rights	2	0	0	2
23160SEC38	Tally. ERP 9	2			1
Ability Enhancement Compulsory course (AECC3)					
23160RMC39	Research Methodology	2	0	0	2
231ACLSOAN	Office Automation	0	0	0	1
Total		30	0	0	22

SEMESTER – IV

Course Code	Course Title	L	T	P	C
23110AEC41/ 23111AEC41/	Tamil-IV/Advanced English-IV /Hindi-IV/ French – IV	3	0	0	3
23111AEC42	English-IV	3	0	0	3
23160AEC43	Human Resource Management	4	0	0	3
23160AEC44	Business Regulatory Frame Work	4	0	0	3
23160GEC45	Financial Services	3	0	0	3
23160GEC46	Operation Research	3	0	0	3
Skill Enhancement Course					
23160SEC47	Information Technology Concepts	2	0	0	2
23160SEC48	Salesmanship	2	0	0	1



Ability Enhancement Compulsory course (AECC4)					
231AECCEVS	Environmental Studies	2	0	0	2
231LCSCLS	Leadership and Management Skills	0	0	0	1
Total		30			24
SEMESTER – V					
Course Code	Course Title	L	T	P	C
23160AEC51	Advertising management and sales promotion	4	1	0	4
23160AEC52	Research Methodology	4	1	0	3
23160AEC53	Operations Management	5	0	0	4
23160DSC54	Financial Management	5	0	0	4
23160DSC55	Digital Marketing (OR) Industrial Relations	4	0	0	3
23160DSC56	Financial Literacy (OR) Strategic Management	4	0	0	3
Skill Enhancement Course					
2360SEC57	Summer Internship/Industrial Training	-	-	-	2
231ECCVED	Value Education	2	0	0	2
231ACLSPSL	Professional Skills	0	0	0	1
Total		30			25
SEMESTER – VI					
Course Code	Course Title	L	T	P	C
23160AEC61	Material Management	6	0	0	4
23160AEC62	Services Marketing	6	0	0	4
23160AEC63	Business Taxation	6	0	0	4



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23160DSC64	Consumer Behaviour (OR) Security Analysis Portfolio Management	5	0	0	3
23160DSE65	Logistics and Supply Chain Management (OR) Company Law	5	0	0	3
23160PRW66	Project Work	-	-	-	4
Skill Enhancement Course					
231SECD67	General awareness for Competitive Examinations	2	0	0	2
231EXACT	Extension activity	-	-	-	1
231ACSSIST	Indian Knowledge System	0	0	0	2
	Total	30			25
	TOTAL				147

- The members of the Board approved the syllabus for "**New Courses Introduced in UG Business Management**" that was proposed to them. Refer to Annexure I for the same
- The LOCF document was presented to the BOS members. The BOS members confirmed that the syllabus-related matter has been incorporated into the LOCF document. Refer to the LOCF document for the same.
- The syllabus for the course "**Indian Knowledge System**" was presented and discussed with the BoS members, followed by their approval. Refer to Annexure II for the same.
- The syllabus for the course "**Disaster Management**" was presented and discussed with the BOS members, followed by their approval. Refer to Annexure IV for the



	<p>same.</p> <ul style="list-style-type: none">• It was proposed that advanced learners should actively participate in peer teaching and be motivated to participate in more than one online course. Activities like the departmental newsletter, student-organised seminars, and journal club discussion forum should be coordinated by them. It was also recommended to conduct a departmental-level finishing school programme for the graduating batch of students. Board members also opined to encourage students to join individual summer internship programmes in reputed research institutions like NCBS, CCMB, and IISC in order to strengthen their skills and expertise in the field of Business Management• It was resolved to make changes in BBA Syllabus in the I semester and II semester syllabuses. Refer to Annexure V for the same.• It was resolved to make changes in BBA Syllabus in the I semester syllabus. Refer to Annexure VI for the same.
	<p>Resolution: The Board resolved to accept the same. New syllabus for BBA Management approved. It will be effective from the Academic year 2023-2024..</p>
4	<p>Agendum 4: Discussion on the development of the MBA Management New Curriculum under R 2023.</p>
	<p>Discussion: A draft curriculum for MBA Management was proposed with modification to committee and the following points were discussed.</p> <ul style="list-style-type: none">□ The members wanted to confirm the total number of credits accounting for 91. <p>The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSCHÉ) requirements and will put forth this to the Academic Council.</p> <p style="text-align: center;">MASTER OF BUSINESS ADMINISTRATION</p>



**CURRICULUM (2023 ONWARDS)
PRIST SCHOOL OF BUSINESS - PG MBA - REGULATION 2023**

Sem no	Paper No	Subject Code	Subject Title	L	T	P	C
I	1	23260CC1	Management Principles and Business Ethics	4	0	0	4
I	2	23260CC2	Quantitative Techniques and Research Methods in Business	3	1	0	3
I	3	23260CC3	Managing Organizational Behaviour	4	0	0	4
I	4	23260CC4	Accounting for Managers	3	1	0	3
I	5	23260CC5	Managerial Economics	4	0	0	4
I	6	23260CC6	Legal Systems in Business	4	0	0	4
Ability Enhancement Course							
I	7	23260SEC1	entrepreneurship development	3	2	0	3
Audit course							
I	8	23260SEC2	Research Led Seminar	0	0	0	1
Skill Enhancement Course							
I	9	23260SEC3	Executive communication	0	0	2	2
			Total	25	0	2	28
II	1	23260CC7	Applied Operations Research	3	1	0	3
II	2	23260CC8	Human Resource Management	4	0	0	4
II	3	23260CC9	Marketing Management	4	0	0	4
II	4	23260CC10	Operations Management	3	1	0	3
II	5	23260CC11	Financial Management	3	1	0	3
II	6	23260CC12	Strategic Management	4	0	0	4
Ability Enhancement Course							
II	7	23260SEC4	International business	3	0	0	3
Audit course							
II	8	23260SEC5	Participation in Bounded Research	0	0	2	2
Skill Enhancement Course							
II	9	23260SEC6	Computing skills	0	0	2	2
II	10	23260SEC7	Business etiquette	0	0	2	2
			Total	24	3	6	30
III	1	23260CC13	Information Systems for Business	4	0	0	4
III	2	23260E-3	Elective 1	3	0	0	3
III	3	23260E-3-	Elective 2	3	0	0	3
III	4	23260E-3-	Elective 3	3	0	0	3
III	5	23260E-3-	Elective 4	3	0	0	3
III	6	23260E-3-	Elective 5	3	0	0	3
III	7	23260E-3-	Elective 6	3	0	0	3
Ability Enhancement Course							
III	8	23260SEC8	Employability skills	3	0	0	3
		23260SEC9	Leadership and team building skills	0	0	2	2
III	8		Summer Internship	-	-	-	-



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			Total	25	0	2	27
IV		23260SEC10	Research Methods in Management	5	0	0	4
IV		23260PW11	Project Work & Viva- Voce	0	0	0	-
			Total	0	0	0	-
			Total Credits	79	5	10	89

CURRICULUM (2023 ONWARDS)

III Sem Specialization Courses: Finance Management

Sem	Paper no	Subject code	Sub title	Credit
III	1	20360EC31	Corporate Finance	3
III	2	20360EC32	Security Analysis and Portfolio Management	3
III	3	20360EC33	Tax Management	3
III	4	20360EC34	Merchant Banking and Financial Services	3
III	5	20360EC35	Derivatives Management	3
III	6	20360EC36	Banking and Insurance	3
III	7	20360EC37	Capital Markets and Financial Services	3
III	8	20360EC38	Fixed Income Securities	3
III	9	20360EC39	International Financial Management	3
III	10	20360EC40	Risk Management in Banks	3

III Sem Specialization Courses: Marketing Management

Sem	Paper no	Subject code	Sub title	Credit
III	1	20360EA31	Advertising Management and Sales Promotion	3
III	2	20360EA32	Sales and Distribution Management	3
III	3	20360EA33	Brand Management	3
III	4	20360EA34	Customer Relations Management	3
III	5	20360EA35	Retail Marketing	3
III	6	20360EA36	Rural Marketing	3
III	7	20360EA37	International Marketing	3
III	8	20360EA38	Advanced Selling and Negotiation Skills	3
III	9	20360EA39	Marketing Analytics	3
III	10	20360EA40	New Product Strategies	3

III Sem Specialization Courses: Human Resource Management

Sem	Paper no	Subject code	Sub title	Credit
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BOS

III	1	20360EB31	Human Resources Development	3
III	2	20360EB32	Performance Management	3
III	3	20360EB33	Organizational Development	3
III	4	20360EB34	Industrial and Labour Relations	3
III	5	20360EB35	Career Management	3
III	6	20360EB36	HR Analytics	3
III	7	20360EB37	Learning and Development	3
III	8	20360EB38	Organizational Change	3
III	9	20360EB39	Talent Management	3
III	10	20360EB40	Stress Management	3
III Sem Specialization Courses: Logistics and Supply Chain Management				
Sem	Paper no	Subject code	Sub title	Credit
III	1	20360EE31	Supply Chain Management	3
III	2	20360EE32	Principles and Practice of Logistics Management	3
III	3	20360EE33	Inventory & Warehousing Management	3
III	4	20360EE34	Domestic and International Logistics	3
III	5	20360EE35	Logistics legal framework and Maritime documents	3 3
III	6	20360EE36	Export & Import Management	3
III	7	20360EE37	Strategic Logistics Management	3
III	8	20360EE38	Distribution Management	3
III	9	20360EE39	Multi-Modal Transportation	3
III	10	20360EE40	Logistics Infrastructure	3
III Sem Specialization Courses: Hospital Management				
Sem	Paper no	Subject code	Sub title	Credit
III	1	20360EH31	Health Policy and Health Care System	3
III	2	20360EH32	Hospital Planning and Administration	3
III	3	20360EH33	Hospital Records Management	3
III	4	20360EH34	Hospital Core Services	3
III	5	20360EH35	Hospital Support Services	3
III	6	20360EH36	Quality Assurance in Health Care	3
III	7	20360EH37	Operations Management in health care	3
III	8	20360EH38	Health care Governance and	3



				Technology	
	III	9	20360EH39	Total Quality Management in Hospital	3
	III	10	20360EH40	Health care accreditation and Law	3
	<p>Resolution: The Board resolved to accept the same. New syllabus for MBA approved. It will be effective from Academic year 2023-2024</p>				
5	<p>Agendum 5: Discussion on Value added courses</p>				
	<p>Discussion: Value added courses (Job Oriented Courses) were discussed, the department of Business Management proposed four courses .</p> <ul style="list-style-type: none"> • Diploma in E-Banking • Diploma in Tax Procedure & Practices • Certificate Course in Sales & Marketing • Certificate Course in Investment Management 				
	<p>Resolution: The committee recommended and approved both the courses.</p>				
6	<p>Agendum 6: Discussion on Four years Under Graduate Programme (FYUGP) B.Com ,B.Com CA Hons</p>				
	<p>Discussion: FYUGP detailed syllabus of the programme in the Annexure VI</p>				
	<p>Resolution: The Board recommended the FYUGP for approved by the Academic council.</p>				
7	<p>Agendum 4: Any other matters</p>				
	<p>Discussion:</p> <ul style="list-style-type: none"> • The board of studies in Management recommends the panel of experts for examination purposes as per the guidelines of the institution. • The board also suggested measures to improve the creative and innovative thinking ability of the post graduate students by assigning critical research problems in projects and practical's. • The suggestions received from the parents, students, Alumni and employer viz, practical oriented curriculum and skill enhancement internship training were discussed. • The board also suggested enlisting minimal skill sets required to pass the degree programme. • The list of panel of examiners was revised by adding more number of examiners. 				

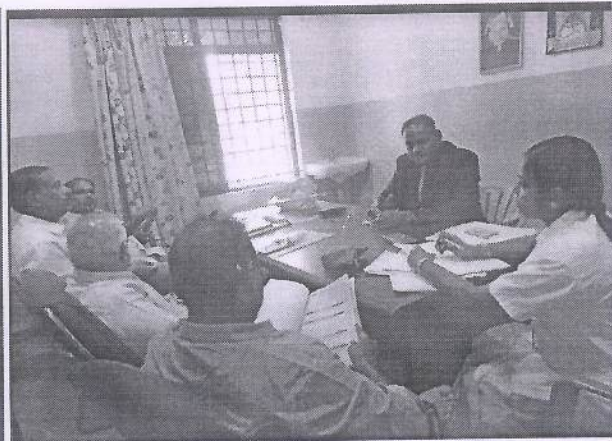
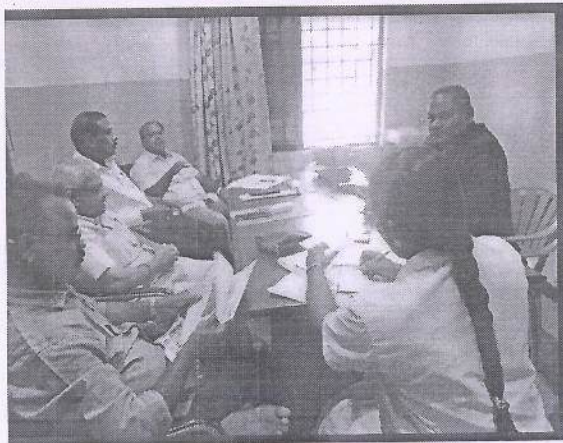
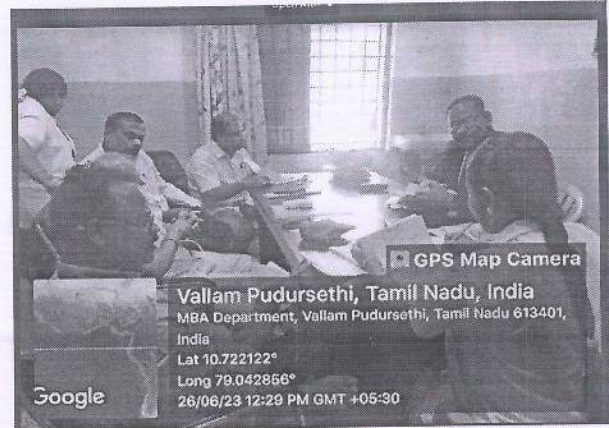


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The chairman of Board of Studies (BOS) thanked all the members for their active participation and cordially invited them for the next meeting .



Date: 26.06.2023

Dr.S.Rajendran

BOS Chairman / HOD



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BOS

Syllabus Revision- New Course

Semester: I

Board: Management

Course Code/Name: Accounting For Managers I

Unit	Content
I	Meaning and scope of Accounting, Basic Accounting Concepts and Conventions – Objectives of Accounting – Accounting Transactions – Double Entry Book Keeping – Journal, Ledger, Preparation of Trial Balance.
II	Subsidiary book – Preparation of cash Book – Bank reconciliation statement – rectification of errors – Suspense account.
III	Preparation of Final Accounts – Adjustments – Closing stock, outstanding, prepaid and accrued, depreciation, bad and doubtful debts, provision and discount on debtors and creditors, interest on drawings and capital, Abnormal loss, managerial remuneration.
IV	Partnership Accounts- Basic concepts of admission, retirement and death of a partner including treatment of goodwill. Depreciation– Meaning, Causes, Types – Straight Line Method – Written Down Value Method.
V	Single Entry – Meaning, Features, Defects, Differences between Single Entry and Double Entry System – Statement of Affairs Method – Conversion Method.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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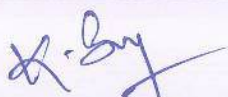
BOS

Semester : I

Board: Management

Course Code/Name: Managerial Economics

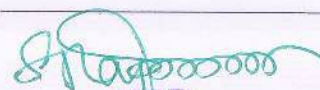
Unit	Existing	Changes
I	Introduction – Natural & Scope of Managerial Economics – Significance of Managerial Economics.	Nature and scope of managerial economics – definition of economics – important concepts of economics – relationship between micro, macro and managerial economics – nature and scope – objectives of firm.
II	Demand Analysis – Basic Concepts and Tools for Analysis of Demand – Demand forecasting.	Demand analysis – Theory of consumer behavior – Marginal utility analysis – indifference curve analysis Meaning of demand – Law of demand – Types of demand-Determinants of demand – Elasticity of demand –Demand forecasting.
III	Cost Concepts and Cost Analysis – Production Function – Cost Price – Output Relations.	Production and cost analysis – Production – Factors of production – production function – Concept – Law of variable proportion – Law of return to scale and economics of scale – cost analysis – Different cost concepts – Cost output relationship short run and long run – Revenue curves of firms – Supply analysis.
IV	Price and Output Decisions under different Market Structures Perfect Competition – Monopoly – Monopolistic Competition – Oligopoly – Pricing Policy – Pricing Methods and Approaches – Product Line Pricing – Price Forecasting.	Pricing methods and strategies – Objectives – Factors – General consideration of pricing – methods of pricing – Dual pricing – Price discrimination
V	National Income-definition, measurement – Factors – difficulties in measurement. GDP-NDP-Business cycle- phases – Inflation- types and control measures. Managerial Economics in the Context of Globalization.	Market classification – Perfect competition – Monopoly – Monopolistic competition – Duopoly – Oligopoly.



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✓	Skill development		Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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BOS

Semester: I

Board: Management

Course Code/Name: Basics of Event Management

Unit	Content
I	Introduction: Event Management – Definition, Need, Importance, Activities.
II	Concept and Design of Events: Event Co-ordination, Developing &, Evaluating event concept – Event Design
III	Event Feasibility: Resources – Feasibility, SWOT Analysis
IV	Event Planning & Promotion – Marketing & Promotion – 5Ps of Event Marketing – Product, Price, Place, Promotion, Public Relations
V	Event Budget – Financial Analysis – Event Cost – Event Sponsorship

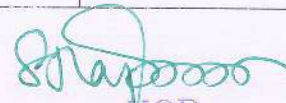
PERCENTAGE OF SYLLAUS REVISED:100

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	Intellectual Property Rights		


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BOS

Syllabus Revision- New Course

Semester: II

Board: Management

Course Code/Name: Accounting For Managers II

Unit	Content
i	Cost accounting – Meaning, nature, scope and functions, need, importance and limitations- Cost concepts and classification – cost sheets – Tenders & Quotation
II	Management accounting – Meaning, nature, scope and functions, need, importance and limitations – Management Accounting vs. Cost Accounting. Management Accounting vs. Financial Accounting. Analysis and Interpretation of financial statements – Nature, objectives, essentials and tools, methods – Comparative Statements, Common Size statement and Trend analysis.
III	Ratio Analysis – Interpretation, benefits and limitations. Classification of ratios - Liquidity, Profitability, turnover.
IV	Budgets and budgetary control – Meaning, objectives, merits and demerits – Sales, Production, flexible budgets and cash budget
V	Marginal Costing – CVP analysis – Break even analysis.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
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Semester II:

Course Code/Name: Business Communication

Unit	Existing	Changes
I	Introduction – Definition, Characteristics and need for communication – Importance of effective communication – Process, Principles of Communication - Barriers of communication.	Definition – Methods – Types – Principles of effective Communication – Barriers to Communication – Communication etiquette.
II	Means of communication – Oral and Written Communication – Flow of Communication – Types of Communication – Non Verbal Communication.	Business Letter – Layout- Kinds of Business Letters: application, offer, acceptance/ acknowledgement and promotion letters. Business Development Letters – Enquiry, replies, Order, Sales, circulars, Grievances.
III	Introduction to Business Correspondence – Structure Layout – Letters of Enquiries, Offers, Quotations and Tenders – Orders, its execution and Cancellation Letters – Sales Letters.	Interviews- Direct, telephonic & Virtual interviews- Group discussion – Presentation skills – body language.
IV	Bank Correspondence – Letter between banker and customer, Letter between Head office and Branch Office, Letter between Customer and banker. Insurance Correspondence – Fire, Marine, General and Life Insurance. Export and Import Correspondence.	Communication through Reports – Agenda- Minutes of Meeting - Resume Writing.
V	Reports - Structure and Layout – Business Report Writing – Reports by Individuals, Committees, Press Reports, Market Reports – Proposal Writing. Technology – Aided Business Communication – Internet, E-Mail, Web-based Communication, IT Trends in Communication.	Modern Forms of Communication: podcasts, Email, virtual meetings – Websites and their use in Business – social media- Professional Networking sites.


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Semester: II

Board: Management

Course Code/Name: International Trade

Unit	Content
I	Difference between Internal and International Trade – Importance of International Trade in the Global context.
II	Theories of Foreign Trade: - Absolute, Comparative, equal cost differences (Adam Smith, Ricardo, Haberler's Heckscher-Ohlin theories only)
III	Balance of Trade, Balance of Payment – Concepts – Causes of Disequilibrium, Methods to Correct Disequilibrium – Fixed and Floating Exchange Rates
IV	International Monetary Fund – IMF – International Liquidity- IBRD- WTO and its implications with special reference to India
V	International business Overview – globalization – MNC – FDI – Export management – significance to GDP- Export procedure & documentation.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
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Syllabus Revision- New Course

Semester: II

Board: Management

Course Code/Name: Managerial Skill Development

Unit	Content
I	Self: Core Competency, Understanding of Self, Components of Self— Self-identity, Self-concept, Self - confidence and Self-image. Skill Analysis and finding the right fit. Self-learning styles, attitude towards change and applications of skills.
II	Self Esteem: Meaning & Importance, Components of self-esteem, High and low self-esteem, measuring our self-esteem and its effectiveness, Personality mapping tests, Appreciative Intelligence.
III	Building Emotional Competence: Emotional Intelligence — Meaning, Components, Importance and Relevance, Positive and Negative Emotions,, Healthy and Unhealthy expression of Emotions, The six-phase model of Creative Thinking: ICEDIP model.
IV	Thinking skills: The Mind/Brain/ Behaviour, thinking skills, Critical Thinking and Learning, Making Predictions and Reasoning, Memory and Critical Thinking, Emotions and Critical Thinking. Creativity: Definition and meaning of creativity, The nature of creative thinking, Convergent and Divergent thinking, Idea generation and evaluation (Brain Storming), Image generation and evaluation.
V	Thinking skills: The Mind/Brain/Behaviour, thinking skills, Critical Thinking and Learning, Making Predictions and Reasoning, Memory and Critical Thinking, Emotions and Critical Thinking. Creativity: Definition and meaning of creativity, The nature of creative thinking, Convergent and Divergent thinking, Idea generation and evaluation (Brain Storming), Image generation and evaluation.

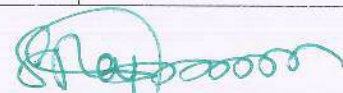
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Syllabus Revision- New Course

Semester: II

Board: Management

Course Code/Name: Business Etiquette and Corporate Grooming

Unit	Content
I	Introduction to Business Etiquette: Introduction- ABCs of etiquette- meeting and greeting scenarios-principles of exceptional work behavior-role of good manners in business-professional conduct and personal spacing.
II	Workplace Courtesy and Business Ethics: Workplace Courtesy- Practicing common courtesy and manners in a workplace-Etiquette at formal gatherings- Professional qualities expected from an employer's perspective - Hierarchy and Protocol. Ethical issues - preventing sexualharassment-conflictresolutionstrategies- Choosing appropriate gift in the business environment-real life workplaces cenarios - company policy for business etiquette
III	Telephone Etiquette, email etiquette and Disability Etiquette Mastering the telephone courtesy, handling rude or impatient clients -internet usage in the workplace, email etiquette, online chat etiquette guidelines -Basic disability Etiquette practices.
IV	Diversity and Cultural Awareness at Workplace Impactofdiversity- CulturalSensitivity-TaboosandPractices-Inter-CulturalCommunication.
V	Business Attire and Professionalism Business style and professional image-dress code-guidelines for appropriate business satire –grooming for success.

PERCENTAGE OF SYLLAUS REVISED:100

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✓	Employability	✓	Professional Ethics
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Semester III:

Board: Management

Course Code/Name: Business Environment

Unit	Existing	Changes
I	Business environment- concept- significance- factors- environmental influence on business.	The concept of Business Environment – Its nature and significance – Brief overview of political – Cultural – Legal – Economic and social environments and their impact on business and strategic decisions
II	Social and cultural environment- demographic trend- Indian social structure- impact on business- Inter play of various systems.	Political Environment – Government and Business relationships in India
III	Political environment- directive principles of state policy-centre- state relations- impact on business- economic environment- sectors of economy and their significance- agriculture, industry- service- multinational corporations- meaning- importance- advantages- weakness.	Social environment – Cultural heritage- Social attitudes – Castes and communities – Joint family systems – linguistic and religious groups – Types of social organization
IV	Technological environment- choice of technology- problems in selecting appropriate technology- importance to business- social responsibility- meaning- importance- responsibility towards various interest groups.	Economic Environment – Economic systems and their impact of business – Role of planning - NITI aayog.
V	Economic planning and development- government and planning- industrial policies and promotion schemes- government policy and SSI.	Financial Environment – Financial system – Commercial bank – Financial Institutions – RBI Stock Exchange – IDBI – Non-Banking Financial Companies NBFCs


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Semester III:

Course Code/Name: Organizational behaviour

Unit	Existing	Changes
I	Organizational Behaviour – Concept – Nature - Models - Other similar fields of study – Disciplines contributing to Organizational Behaviour - Individual Behaviour – Perception.	Need and scope of organizational behaviour - Theories of organization - Individual difference Vs Group intelligence tests -Measurement of intelligence - Personality Tests - Nature – Types and uses of perception
II	Personality – Definition - Determinants - Group Dynamics – Formal and Informal Groups, Group Norms, Group Cohesiveness, Group Behaviour and Group Decision – making.	Motivation - Financial and non -Financial motivational techniques - Job satisfaction - meaning - Factors - Theories - Measurement -Morale - Importance - Employee attitudes and behavior and their significance to employee productivity.
III	Leadership – Concept – Qualities of effective Leadership – Leadership Styles - Definition of Power – Types of Power - Sources of power – Power and Politics.	Work environment - Good house-keeping practices - Design of work place – Fatigue & stress – Causes and prevention and their importance – Work place counseling - Leadership -Types and theories of leadership
IV	Definition of Authority – Characteristics – Types of Authority - Organizational conflict, source of conflicts – Types of conflicts – Job frustration and causes.	Group dynamics -Cohesiveness - Co-operation - Competition - Resolution - Sociometry - Group norms - Role position status
V	Motivation – Concept – Nature – significance - Theories of Motivation – Maslow’s need hierarchy theory – Mc Gregor’s Theory X and Theory Y – Herzberg Two Factor Theory - Stress Management – Concept - Sources - Effects of stress - Management of Stress.	Organizational culture and climate - Organizational Development


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	Social Awareness/Environment		Environment and Sustainability
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Science & Technology (PRIST)
THANJAVUR - 613 403.

S. Rajasekar

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BOS

Syllabus Revision- New Course

Semester: III

Board: Management

Course Code/Name: Business Statistics

Unit	Content
I	Introduction – Meaning and Definition of Statistics – Collection and Tabulation of Statistical Data – Presentation of Statistical Data – Graphs and Diagrams- Measures of Central Tendency – Arithmetic Mean, Median and Mode – Harmonic Mean and Geometric Mean.
II	Measures of Variation – Standard Deviation – Mean deviation – Quartile deviation- Skewness and kurtosis – Lorenz Curve – Simple Correlation – Scatter Diagram – Karl Pearson’s Correlation – Rank Correlation – Regression.
III	Analysis of Time Series – Methods of Measuring Trend and Seasonal Variations
IV	Index Numbers – Consumer Price Index – And Cost of Living Indices- Statistical quality control
V	Testing of hypothesis – Chi-Square test, T Test, F Test, ANOVA.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development		Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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BOS

Semester: III

Board: Management

Course Code/Name: Computer Application In Business

Unit	Content
I	Introduction, Menus, Shortcuts, Document types, working with Documents-Opening, Saving, Closing, Editing Document, Using Toolbars, Rulers, Help, Formatting Documents-Setting font, paragraph, Page Style-Setting foot notes, page break, Line break, creating sections and frames, Inserting clip arts, pictures, Setting document styles, Creating Tables-Settings, borders, alignments, Merging, splitting, sorting rows and columns, Drawing-Inserting, drawing, formatting, grouping, ordering, rotating pictures, Tools-Word completion, Spell check, Macros, Mail merge, Tracking Changes, Security, Printing Documents .
II	Introduction, Spread sheet application, Menus, Tool bars and icons, Spreadsheet-Opening, saving, closing, printing file, setting margins, Converting file to different formats, spread sheet addressing, Entering And Editing Data- Copy, cut, paste, undo, redo, find, search, replace, filling continuous rows and columns, inserting data cells, columns, rows and sheet, Computation Data-Setting formula, finding total in rows and columns, Functions Types- Mathematical, Group, string, date and time, Formatting Spread Sheet- Alignment, font, border, hiding, locking, cells, Highlighting values, background color, bordering and shading, Working With Sheet-Sorting, filtering, validation, consolidation, subtotals, Charts-Selecting, formatting, labeling, scaling, Tools- Error checking, spell check, formula auditing, tracking changes, customization
III	Introduction, opening new presentation, Presentation templates, presentation layout, Creating Presentation- Setting presentation style, adding text, Formatting- Adding style, color, gradient fills, arranging objects, adding header and footer, slide background, slide layout, Slide Show, Adding Graphics-Inserting pictures, movies, tables, Adding Effects-Setting animation and transition effects, audio and video, Printing handouts.
IV	Introduction to Tally - Features of tally, creation of company, Accounts only and accounts with, Get way of Tally, Accounts confiscation, Groups and Ledgers, Voucher entry with Bill wise details Interest computation, order processing. Reports - Profit and Loss A/C, Balance Sheet
V	Use Google forms to develop & share questionnaire.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

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Syllabus Revision- New Course

Semester: III

Board: Management

Course Code/Name: Entrepreneurial Skill New Venture Management

Unit	Content
I	Concept of Entrepreneurship – Evolution - importance – Importance of entrepreneurship, developing creativity and understanding innovation, stimulating creativity; Organisational actions that enhance creativity, Managerial responsibilities, Creative Teams; Sources of Innovation in Business; Managing Organizations for Innovation and Positive Creativity.
II	Developing Successful Business Ideas: Recognizing Opportunities and Generating Ideas - Entry strategies: New Product –Franchising - Buying an existing firm. –Franchising advantages/disadvantages of franchising - types of franchise arrangements - franchise evaluation checklist.
III	Feasibility Analysis: Marketing, Technical and Financial Feasibility analysis - Industry and Competitor Analysis-assessing a New Venture's Financial Strength and Viability - writing a Business Plan - Developing an Effective Business Model
IV	Moving from an Idea to a New Venture: Preparing the Proper Ethical and Legal Foundation- Building a New-Venture Team – Leadership - Corporate Entrepreneurship, Social Entrepreneurship. Strategic planning for business - Steps in strategic planning. Forms of ownership – advantages/disadvantages.
V	Financing the New Venture: Financing entrepreneurial ventures - Managing growth; Valuation of a new company - Harvesting and Exit Strategies - Arrangement of funds - Traditional sources of financing - Alternate Source of Funding - Financial schemes offered by various financial institutions - Government Schemes that support Entrepreneurs, Start-ups, MSMEs, any new venture - rules and regulations governing support by these institutions.

PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:

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	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		


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BOS

Semester IV:

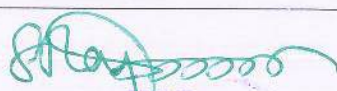
Course Code/Name: Human Resource management

Unit	Existing	Changes
I	Human Resource Management - Introduction and Importance - Evolution – objectives of Human resource management – role of Human resource management - Human resource policies.	Nature and scope of Human Resources Management – Differences between personnel management and HRM – Environment of HRM – Human resource planning
II	Objectives - Importance of HRP- process of HRP – Job analysis-Job Description - Job Specification - Recruitment- Sources of Recruitment - Selection process – Retention of Employees	Recruitment – Selection – Methods of Selection – Uses of various tests – interview techniques in selection and placement. Induction – Training – Methods – Techniques – Identification of the training needs – Training and Development.
III	Training and Development - Training Process - Methods of Training - Need - Evaluation of Training programmes – Concept of Performance appraisal - methods of Performance Appraisal- Rating Errors - Grievances – causes and its functions – Career Planning- career management.	Performance appraisal – Transfer – Promotion and termination of services – Career development. Remuneration - Components of remuneration – Incentives – Benefits – Motivation – Welfare and social security measures.
IV	Concepts and Components - Compensation plans – Rewards – Motivation – Theories of motivation – Employee Welfare - Kinds of Retirement.	Labour Relation – Functions of Trade Unions – Forms of collective bargaining- Workers' participation in management – Types and effectiveness – Industrial Disputes and Settlements (laws excluded)
V	Factors influencing industrial relations - State Interventions and Legal Framework - Role of Trade unions - Collective Bargaining - Workers' participation in management- time management.	Human Resource Audit – Nature – Benefits – Scope – Approaches. HRIS. Recent trends in HRM: Green HRM & Virtual HRM Practices


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COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
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	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: IV

Board: Management

Course Code/Name: Business Regulatory Framework

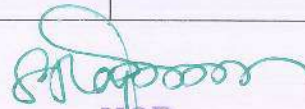
Unit	Content
I	Brief outline of Indian Contracts Act - Special contracts Act
II	Sale of goods Act - Contract of Agency
III	Brief outline of Indian Companies Act 1956.
IV	Consumer Protection Act – RTI
V	Brief outline of Cyber laws – IT Act 2000 & 2008

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

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Syllabus Revision- New Course

Semester: IV

Board: Management

Course Code/Name: Operation Research

Unit	Content
I	Linear Programming problem -Concept and scope of OR, general mathematical model of LPP, steps of L.P model formulation, Graphical method of the solution of LPP- simple problems.
II	Transportation problem- Basic definitions, formulation of transportation problem as LPP, finding an initial basic feasible solution- North -west corner rule, row minima method, column minima method, least cost entry method-Vogel's approximation method to find the optimal solution.
III	Assignment problem-Hungarian method- Minimization and Maximization case, unbalanced assignment problem. Sequencing Problem-Processing n jobs on 2 machines, processing n jobs on 3 machines, processing n jobs on m machines.
IV	Network models-PERT and CPM — difference between PERT and CPM- constructing network- critical path, various floats, three-time estimates for PERT
V	Game Theory- Maximin-Minmax criterion, Saddle point, Dominance property, Graphical method for solving $2 \times n$ and $m \times 2$ game

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development		Entrepreneurial development
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	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
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Syllabus Revision- New Course

Semester: IV

Board: Management


Course Code/Name: Intellectual property Rights

Unit	Content
I	IPR Introduction: and the need for intellectual property right – IPR in India – Different Classifications – Important Principles of IP Management – Commercialization of Intellectual Licensing – Intellectual Property Rights in the Cyber World.
II	Introduction – Classification – Importance – Types of Patent Applications in India – Patentable Invention – Inventions Not Patentable.
III	Introduction – Fundamentals – Concept – Purpose – Functions – Characteristics – Guidelines - For Registration of Trade Mark – Kinds of TM – Protection – Non-Registrable Trademarks – Industrial Designs – Need for Protection of Industrial Designs.
IV	Introduction to Copyright – Conceptual Basis – Copy Right and Related Rights – Author & Ownership of Copyright - Rights Conferred By Copy Right – Registration – Transfer – Infringement – Copyright pertaining to Software/Internet and other Digital media.
V	GEOGRAPHICAL INDICATIONS: Concept, Protection & Significance

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: V

Board: Management

Course Code/Name: Advertising Management and Sales Promotion

Unit	Content
I	Advertising: Advertising, objectives, task and process, market segmentation and target audience – Message and copy development.
II	Media: Mass Media - Selection, Planning and Scheduling – Web Advertising
III	Implementation: Implementing the programme coordination and control – Advertising agencies – Organization and operation.
IV	Sales Promotion: Why and When Sales promotion activities, Consumer and sales channel oriented – planning, budgeting and implementing and controlling campaigns
V	Control: Measurement of effectiveness – Ethics, Economics and Social Relevance - Integrated marketing communication.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
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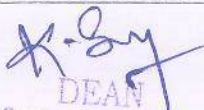
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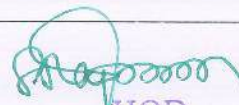
Semester V:

Course Code/Name: Total Quality management

Unit	Existing	Changes
I	Quality – vision, mission and policy statements. Customer Focus – customer perception of quality, Translating needs into requirements, customer retention. Dimensions of product and service quality - Cost of quality.	Introduction – Evolution of quality, Definition, Concept and Features of TQM, - Eight building blocks of TQM.
II	Overview of the contributions of Deming, Juran Crosby, Taguchi techniques – Introduction to loss function. Concepts of Quality circle, Japanese 5S principles and 8D methodology	TQM thinkers and Thought – Juran Trilogy, PDSA cycle, 5S, Kaizen, Crosby’s theory on Quality Management, Quality Performance Excellence Award-Deming Application Award, European Quality Award, Malcolm Baldrige National Quality Award
III	Meaning and significance of statistical process control (SPC) – construction of control charts for variables and attributed. – Six sigma - concepts of process capability. Total productive maintenance (TMP). Business process Improvement (BPI) – principles, applications, reengineering process, benefits and limitations.	TQM tools- Benchmarking: Definition, concepts, benefits, elements, reasons for benchmarking, process of benchmarking, FMEA, Quality Function Deployment (QFD) – House of Quality, QFD Process, Benefits, Taguchi Quality Loss Function, Total Productive Maintenance (TPM) – Concept and need.
IV	Quality functions development (QFD) – Benefits, Voice of customer, House of quality (HOQ), QFD process. Failure mode effect analysis (FMEA) –FMEA stages, Process and documentation. Seven Tools (old & new) - Bench marking.	Six Sigma- Features of six sigma, Goals of six sigma, DMAIC, Six Sigma implementation. Statistical Process Control- Central Tendency, The seven tools of quality, Normal curve, Control charts, Process Capability.
V	Introduction to IS/ISO 9004:2000 – quality management systems – guidelines for performance improvements. Quality Audits. TQM culture – quality council, motivation, recognition and reward. TQM framework, benefits, awareness and obstacles.	Quality Systems- ISO 9000, ISO 9000:2000, ISO 14000, other quality systems.


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COURSES FOCUSES ON:

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	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: V

Board: Management

Course Code/Name: Operation Management

Unit	Content
I	Introduction: Nature and Scope of Operations Management. Production design & Process planning: Plant location: Factors to be considered in Plant Location – Plant Location Trends.
II	Layout of manufacturing facilities: Principles of a Good Layout – Layout Factors – Basic Types of Layouts – Service Facilities.
III	Production and Inventory Control: Basic types of production – Basic Inventory Models – Economic Order Quantity, Economic Batch Quantity – Reorder point – Safety stock – Classification and Codification of stock – ABC classification – Procedure for Stock Control, Materials Requirement Planning (MRP). JIT
IV	Methods Analysis and Work Measurement: Methods Study Procedures – The Purpose of Time Study – Stop Watch Time Study – Performance Rating – Allowance Factors – Standard Time – Work Sampling Technique. Quality Control: Purposes of Inspection and Quality Control – Acceptance Sampling by Variables and Attributes – Control Charts.
V	Service Operations Management: Introduction – Types of Service – Service Encounter–Service Facility Location – Service Processes and Service Delivery.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

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Semester V:

Course Code/Name: Financial management

Unit	Existing	Changes
I	Concept of Finance, Corporate Finance, Finance Functions and other functions. Structures of the Financial System. Financial Management – Meaning, functions and Objectives of Financial Management- Financial Planning and Forecasting of short term and long term	Meaning, objectives and Importance of Finance – Sources of finance – Functions of financial management – Role of financial manager in Financial Management.
II	Financing Decision Sources of funds - Capital Structure - Theories of capital structure - Factors affecting capital structure - Leverage - Operating, Financial and combined leverage - Cost of capital - Costs of individual components of capital - Weighted Average cost of capital.	Capital structures planning - Factors affecting capital structures – Determining Debt and equity proportion – Theories of capital structures – Leverage concept. Cost of capital – Cost of equity – cost of preference capital – Cost of debt – Cost of retained earnings – weighted Average (or) composite cost of capital (WACC)
III	Investment Decision Capital Budgeting Process - Techniques of investment appraisal: Payback period; Accounting Rate of Return - DCF Techniques - Net present value, Profitability Index and Internal Rate of Return	Capital Budgeting: ARR, Pay backperiod, Net present value, IRR, Capital rationing, simple problems on capital budgeting methods.
IV	Working Capital Decision Meaning - Nature of working capital - Classification and significance of working capital - financing of Working capital - Component of working capital, Cash, Short-term marketable securities - Management of Cash and Receivables	Dividend policies – Factors affecting dividend payment - Company Law provision on dividend payment –Various Dividend Models(Walter’s Gordon’s –M.M. Hypothesis)
V	Dividend Decision Theories of Dividend - Determinants of dividend - Dividend Policy - Dividend policies in practice	Working capital – components of working capital –operating cycle – Factors influencing working capital – Determining (or) Forecasting of working capital requirements.


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Syllabus Revision- New Course

Semester: V

Board: Management

Course Code/Name: Digital Marketing

Unit	Content
I	Introduction to Digital Marketing – Origin & Development of Digital Marketing – Traditional vs Digital Marketing – Opportunities & Challenges- Online Marketing Mix – Digital Advertising Market in India. 6M Framework – ASCOR & POEM Digital Marketing framework.
II	Content Marketing – Content creation process – Content pillar - Types – A/B Testing – Display Advertising – Search Engine Marketing –Search Engine Optimization (On page & Off page optimization) - Email Marketing, – Mobile Marketing.
III	Social Media Marketing: Building successful social media digital strategy – Piggy bank theory – Personal branding in social media – Crowd sourcing – Lead generation & sales in social media.
IV	Online Reputation Management: Social commerce: Ratings & Reviews -Word of Mouth- User generated content – Co-Marketing – Affiliate Marketing - Influencer Marketing.
V	Digital Analytics & Measurement: Importance of Analytics in digital space – Data capturing in online space – Types – Tracking Mechanism – Google Analytics structure – Conversion tracking – Digital Engagement funnel; Define – Key performance indicator(s) (KPIs) – Ad words & Display Networks. Overview – Applications of Sentiment analysis & Text Mining; Measuring campaign effectiveness – ROI (Return on Investment) & CLV (Customer life term value)

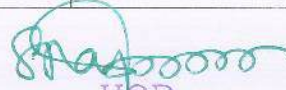
PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

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Syllabus Revision- New Course

Semester: V

Board: Management

Course Code/Name: Industrial Relations

Unit	Content
I	Industrial Relations: Origin, Definition, Scope, Role, Objectives, Factors, Participants & Importance of IR. Approaches to Industrial relations. System of IR in India.
II	Industrial Dispute: Meaning, Employee Dissatisfaction, Strikes – Lockouts, Lay Off & Causes of Conflict. Settlement of Disputes – Machinery – Negotiations Conciliation, Meditation, Arbitration and Adjudication. Grievance: Definition & Re dressal Procedure
III	Labor Legislation: Factories Act 1948, Employee state insurance act 1948, Employee Compensation act 1923, Employee Provident Funds and Miscellaneous Provisions Act 1952 & Trade Union Act 1926.
IV	Workers' participation in management: Labors Participation in Management Structure, Scope, Works Committee, Joint Management Council & Shop Council. Pre-Requisites for Successful Participation. Collective Bargaining: Definition, Meaning, Types, Process & Importance.
V	Trade Unions – Growth – Economic, Social and Political Conditions - Objectives- Structures and Functions–Social And Economic Responsibilities of Trade Union.

PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:

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Syllabus Revision- New Course

Semester: V

Board: Management

Course Code/Name: Financial Literacy

Unit	Content
I	Financial institutions, Financial Intermediaries, Financial markets and financial instruments
II	Financial Planning, Investment Objectives, Basics of Risk and return- Insurance policies – Significance of Term insurance and Health insurance
III	Investments in Commodity, Real estate investments
IV	Mutual Funds Analysis – Evaluation criteria of Selecting the best fund, Stock Analysis – Evaluation criteria of best stocks
V	Crypto Investments – Financial freedom -Tax Planning

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development		Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester V

Board: Management

Course Code/Name: STRATAGIC MANAGEMENT

Unit	Content
I	The Concept of Strategy - Strategic Decisions - Strategic Management - Concept - Benefits - Limitations - Strategic Management Process - Approaches.
II	Mission, Objectives -Need for Environmental Scanning – SWOT Analysis.
III	Strategy Formulation - Business Strategy - Corporate Strategy - Portfolio Analysis - BCG Matrix - Uses - Limitations.
IV	Strategy Implementation - MBO - Functional Implementation - Production - Marketing - Finance Personnel - Research and Development.
V	Strategy Evaluation and Control - Strategic Control – Evaluation Techniques.

PERCENTAGE OF SYLLAUS REVISED:100
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Syllabus Revision- New Course

Semester VI

Board: Management


Course Code/Name: MATERIAL MANAGEMENT

Unit	Content
I	Materials Management- Definition-Function-Importance of Materials Management
II	Integrated materials management- the concept- service function advantages- Inventory Control- Function of Inventory - Importance-Replenishment Stock-Material demand forecasting- MRP- Basis tools - ABC-VED- FSN Analysis - Inventory Control Of Spares And Slow Moving Items -EOQ-EBQ-Stores Planning.
III	Purchase Management- Purchasing - Procedure - Dynamic Purchasing - Principles – import substitution- International purchase- Import purchase procedure
IV	Store Keeping and Materials Handling- Objectives - Functions - Store Keeping - Stores Responsibilities - Location of Store House - Centralized Store Room - Equipment – Security Measures - Protection and Prevention of Stores.
V	Vendor Rating - Vendor Management - Purchase Department - Responsibility - Buyer Seller Relationship - Value Analysis - Iso Types.

PERCENTAGE OF SYLLAUS REVISED:100

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Syllabus Revision

Board: Management

Semester VI: BBA

Course Code/Name: Services Marketing

Unit	Existing	Changes
I	Introduction – Definition – Distinguishing feature of service – Service offer – Service encounter – Service buying process.	Marketing Services: Introduction growth of the service sector. The concept of service. Characteristics of service - classification of service designing of the service, blueprinting using technology, developing human resources, building service aspirations.
II	Relationship marketing and customer loyalty – Managing knowledge – Service positioning and Targeting – Service quality.	Marketing Mix in Service Marketing: The seven Ps: product decision, pricing strategies and tactics, promotion of service and distribution methods for services. Additional dimension in services marketing- people, physical evidence and process.
III	Marketing plans for services – Marketing planning process – Marketing strategy formulation – Resource allocation and monitoring – Marketing planning and services – customer focused services – service quality – Improving service quality – customer retention.	Effective Management of Service Marketing: Marketing demand and supply through capacity planning and segmentation - internal marketing of services - external versus internal Orientation of service strategy.
IV	Pricing of service – promoting service – Internal Marketing – Managing – capacity – Managing the marketing effort – Marketing process - Position analysis.	Delivering Quality Service: Causes of service - quality gaps. The customer expectations versus perceived service gap. Factors and techniques to resolve this gap. Customer relationship management. Gaps in services - quality standards, factors and solutions – the service performance gap - key factors and strategies for closing the gap. External communication to the customers- the promise versus delivery gap - developing appropriate and effective communication about service quality.
V	Marketing of services – Bank – Marketing – Insurance Marketing – Hospital Marketing – Telecommunication services – Education – Marketing.	Marketing of Service With Special Reference To: 1. Financial services, 2. Health services, 3. Hospitality services including travel, hotels and tourism, 4. Professional service, 5. Public utility service, 6. Educational services.



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Syllabus Revision- New Course

Semester VI

Board: Management

Course Code/Name: BUSINESS TAXATION

Unit	Content
I	Objectives Of Taxation – Canons of Taxation – Tax System In India – Direct And Indirect Taxes – Meaning And Types
II	Income Tax Act 1961 – Basic Concepts and Definitions – Income, Assessee, Person, Previous Year, Assessment Year, Gross Total Income, Total Income. Meaning of Permanent Account Number, Return of Income, TDS - Meaning - Rates - Filing and Return, Advance Tax, Rates of Taxation, Assessment Procedure
III	Customs Act 1962 - Introduction, Objectives, Definitions, Functions and powers of customs authorities, different types of custom duties. Classification of goods, procedure for assessment and methods of valuation for customs, demand and recovery of customs duty, procedure for claiming customs duty drawback.
IV	Definitions of GST – business related person’s capital goods – levy and collection of tax – mixed supply, composite supply – meaning, advantages and disadvantages of unregistered supplier – time and value of supply – goods, services – input tax credit – Registration of GST – person liable for registration, not liable for registration, Registration of casual taxable person, deemed on cancellation of registration, revocation of cancellation of registration.
V	Tax Invoice, Credit and Debit notes –Return of GST, Refunds, payment of tax, assessment and audit. An Overview of Tax Audit – Tax Incentives and Export Promotions, Deductions and Exemptions.

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Syllabus Revision- New Course

Semester VI: BBA

Board: Management

Course Code/Name: CONSUMER BEHAVIOUR

Unit	Content
I	Introduction to Consumer Behaviour and Consumer Research: Consumer Behaviour – Definition, Consumer and Customers, Buyers and Users, Organizations as Buyers, Development of Marketing Concept, Consumer Behaviour and its Applications in Marketing, Consumer Research Process.
II	Factors influencing Consumer Behaviour– External Influences – Culture, Sub Culture, Social Class, Reference Groups, Family, Internal Influences– Needs & Motivations, Perception, Personality, Lifestyle, Values, Learning, Memory, Beliefs & Attitudes.
III	Consumer Decision Making Process - Types of consumer decisions, Consumer Decision Making Process - Problem Recognition - Information Search - Alternative Evaluation –Purchase Selection – Post purchase Evaluation, Buying pattern in the new digital era.
IV	Personality and consumer behavior – nature and characteristics of personality-theories of personality- influence of personality on consumer behavior-consumer motivation - concepts, needs, goals and motives-themes in consumer motivation. Attitude – characteristics – components – functions of attitude – factors influencing attitude – themes of attitude
V	Consumer Learning, Memory and Involvement: Introduction, Components of Learning, Behavioral Theory, Cognitive Learning Theory, Concept of Involvement, Dimensions of Involvement - Model of consumer involvement

PERCENTAGE OF SYLLAUS REVISED:100

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Syllabus Revision- New Course

Semester VI

Board: Management

Course Code/Name: COMPETENCY MAPPING

Unit	Content
I	Introduction: Concept and definition of Role and competency, Characteristics of competency, Core Competency versus competence, Performance versus competency; skills versus competency, behavior indicators, Types of competencies - generic/specific, threshold/performance, and differentiating and technical, managerial and human; Competency Method in Human Resource Management: Features of Competency Methods, Historical Development, Definitions.
II	Competency framework - development of personal competency framework, Lancaster Model of managerial competencies, competency modeling framework developing a competency model - Understanding job positions, Data collection instruments for job descriptions, Stages in design and implementation of competency model, Validation of the competency model after data gathering
III	Team Competencies (project driven), Role competencies (Role wise); Competency identification Consolidation of checklist, Rank Order and finalization, Validation, and Benchmark; Competency assessment - 360 degrees, Competency Mapping - Strategy-Structure Congruence, Structure Role Congruence, Vertical & horizontal Role linkages, Positioning to bring in competitive advantage
IV	Identification of Role competencies, elemental competencies, assessment center, what do the assessment centers assess? Design of assessment center, Use of psychometric testing in assessment center, 360-degree feedback, potential appraisal through assessment center, Creating Competency Dictionary.
V	Steps in development of competencies map, studying job, processes, and environment, studying attributes of good performer; Strategy structure congruence, Structure Role congruence - Each role to be unique, Non-Repetitive, and Value adding; Vertical and horizontal role congruence, Ensure non repetitive tasks in two different roles, Ensure core competencies for each task, Link all the above and position to bring in competitive advantage. Using competency maps for Competency profiling - Job competency profiling, Role competency, profiling Functional competency profiling, Core competency profiling Competency based selection, competency-based interviews, competency-based performance management, competency driven careers, and competency linked remuneration, competency driven culture. Career Development Tools.


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Science & Technology (PRIST)
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S. Rajasekar

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Syllabus Revision- New Course

Semester VI

Board: Management

Course Code/Name: Security Analysis & Portfolio Management

Unit	Content
I	Theory: Meaning, objectives, classification of investment. Investment versus speculation. security markets-primary and secondary, market indices- calculation of SENSEX and NIFTY. Stock exchanges- BSE, NSE, OTCEI. Financial intermediaries. Return and Risk – Meaning, types of risk Problem: Measurement of risk and return
II	Theory: Equity analysis & valuation, Types of debt instruments, bond immunization, bond volatility, bond convexity Problem: Equity valuation models -Walter model, Gordon's model, the p/e ratio or earnings multiplier approach, measuring bond yields- yield to maturity, holding period return
III	Theory: Fundamental Analysis: Economic analysis: factors, Industry Analysis: Industry Life Cycle. Company Analysis: Tools of Financial Statement Analysis. Technical Analysis: Dow Theory, Elliot wave theory, Efficient Market Hypothesis; Concept and Forms of Market Efficiency. Charts, Patterns, Trend Lines, Support and Resistance Levels Problems: Relative Strength Analysis, Moving Averages breadth of market
IV	Theory: steps in portfolio management, Portfolio Models –Capital Asset Pricing Model, Arbitrage Pricing Theory Problems: Evaluation of Portfolios; Sharpe Model, Jensen's Model, Treynor's model
V	Theory: characteristics, types of derivatives, participants in derivative market. Characteristics of futures, forwards, swaps, options.

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Syllabus Revision

Board: Management

Semester VI

Course Code/Name: Logistics And Supply Chain Management

Unit	Existing	Changes
I	INTRODUCTION - Defining logistics and supply chain management-Growth and Development-Components of supply chain-Importance of supply chain strategies-SCM Performance.	Concept of Logistics: Introduction, Objectives, Concept of Logistics, Objectives of logistics, Types of logistics, Concept of Logistics Management, Evolution of Logistics, Role of Logistics in an Economy, Difference between Logistics and Supply Chain Management, Logistics and Competitive Advantage, Logistics Mix, Logistics in Organized Retail in India.
II	LOGISTICS MANAGEMENT - Logistics-Functions, Objectives-Management of Materials flow in supply chain-Warehouse and Materials storage-Material Handling-Benchmark in best practices	Supply Chain Management: Introduction, Objectives, Defining Value Chain, Organization level, Activities, Industry level, Value reference model, Concept of Supply Chain Management (SCM), Functions and Contribution of Supply Chain Management, Creating value, Enlisting suppliers to innovate, Leveraging value chain partners, Supply Chain Effectiveness and Indian Infrastructure, Framework for Supply Chain Solution, Supply Chain Relationships, Building a long-term relationship with vendors, Supplier relationship management (SRM).
III	CUSTOMER RELATIONSHIP MANAGEMENT - Customer Relationship Management- outbound logistics resource planning and Management-Quick response system in Manufacturing.	Inventory Management: Introduction, Objectives, Concept of Inventory, Types of Inventory, Concept of Inventory Management, Importance of inventory management, Objectives of inventory management, Different Types of Inventory Costs, Inventory Performance Measures, Inventory turnover ratio (ITR), Framework of performance indicators, Inventory Planning Measures, Economic order quantity (EOQ), Reorder point, Safety stock, Supplier-managed inventory.
IV	LOGISTICS AND SUPPLY CHAIN PERFORMANCE - Management of Inbound logistics-Supply chain cases, Role of a manager in supply chain -Supply chain performance drivers, Value of Supply chain and	Logistical Packaging: Introduction, Objectives, Concept of Logistical Packaging, Design Consideration in Packaging, Types of Packaging Material, Packaging Costs, Introduction to Logistics Outsourcing.

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	improvement	
V	CURRENT TRENDS - Supply chain relationships – Supply chain cost analysis – Issues in Global Supply chain- E Logistics-E SCM- Reverse Logistics-Global Logistics	Logistics Information System: Introduction, Objectives, Concept of Logistics Information System (LIS), Importance of LIS, Principles of designing LIS, Logistics Information Architecture, Application of Information Technology in Logistics and Supply Chain Management, Introduction to E – Commerce Logistics.

PERCENTAGE OF SYLLAUS REVISED: 100
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Syllabus Revision- New Course

Semester VI

Board: Management

Course Code/Name: E-BUSINESS

Unit	Content
I	Introduction to electronic business - meaning - value chains - the Internet and the web - infrastructure for e-business
II	Web based tools for e - business - e - business software - overview of packages
III	Security threats to e - business - implementing security for e - commerce and electronic payment systems.
IV	Strategies for marketing, sales and promotion - B2C and strategies for purchasing and support activities - B2B - web auction virtual - web portals
V	The environment of e-business - international - legal ethical - tax issues - business plan for implementing e-business

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**SCHOOL OF COMMERCE AND MANAGEMENT
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Syllabus Revision- New Course**

MBA Semester I

Board: Management

Course Code/Name: Management Principles and Business Ethics

Unit	Content
I	Introduction: Nature of Management – Concepts and Foundations of Management- Managerial Functions- Management Skills - The Evolution of Management Thought – Tasks of a Professional Manager – Organizational Culture - Environment – Systems Approach to Management – Levels in Management – Disaster Management
II	Planning & Decision Making: Steps in Planning Process – Scope and Limitations – Short Term and Long Term Planning – Flexibility in Planning – Characteristics of a Sound Plan – Management By Objectives (MBO). Strategic Management Process Decision Making Process and Techniques. Business Models
III	Nature of Organizing: Organization Structure and Design - Authority Relationships – Delegation of Authority and Decentralization – Interdepartmental Coordinator – emerging Trends in corporate Structure, Strategy and Culture – Impact of Technology on Organizational design – Mechanistic vs. Adoptive Structures – Formal and Informal Organization. Span of control – Pros and Cons of Narrow and Wide Spans of Control – Optimum Span - Managing Change and Innovation.
IV	Leadership and Control: Leadership: Approaches to Leadership and Communication. Control: Concept of Control – Application of the Process of Control at Different Levels of Management (top, middle and first line). Performance Standards – Measurements of Performance – Remedial Action - An Integrated Control system in an Organization – Management by Exception (MBE) –
V	Business Ethics: Importance of Business Ethics – Ethical Issues and Dilemmas in Business - Ethical Decision Making and Ethical Leadership – Ethics Audit - Business Ethics and - CSR Models.

PERCENTAGE OF SYLLAUS REVISED:100

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Syllabus Revision- New Course

Semester I

Board: Management

Course Code/Name: Quantitative Techniques and Research Methods in Business

Unit	Content
I	Introduction: Probability - Rules of probability- Probability distribution; Binomial, Poisson and Normal Distributions, their applications in Business and Industrial Problem- Baye's Theorem and its applications - Decision Making under risk and uncertainty; Maximax, Maximin, Regret Hurwitz and Laplace Criteria in Business and Decision Making - Decision tree.
II	Research Methods: Research - Definition - Research Process - Research Design - Definition- Types Of Research Design - Role of Theory in Research - Variables in Research - Objectives - Hypothesis -Types of Data; Preliminary Vs Secondary- Methods of Primary Data Collection; Survey, Observation, Experiments - Construction Of Questionnaire - Questionnaire Schedule- Validity and Reliability of Instruments - Types of Scales; Nominal, Ordinal, Interval - Types of Attitude Measurement Scales - Sampling Techniques; Probability And Non probability Techniques- Optimal Sample Size determination.
III	Data Preparation and Analysis: Data Preparation - Editing -Coding- Data Entry- Data Analysis- Testing Of Hypothesis Univariate and Bivariate Analysis - Parametric And Nonparametric Tests and Interpretation of Test Results- Chi-Square Test- Correlation; Karl Pearson's Vs Correlation Coefficient and Spearman's Rank Correlation- Regression Analysis - One Way and Two Way Analysis of Variance.
IV	Multivariate Statistical Analysis: Exploratory and Confirmatory Factor Analysis -Discriminant Analysis- Cluster Analysis -Conjoint Analysis -Multiple Regression- Multidimensional Scaling- Their Application In Marketing Problems - Application of Statistical Software For Data Analysis- SEM Analysis
V	Report Writing and Ethics in Business Research: Research Reports- Different Types -Report Writing Format- Content of Report- Need For Executive Summary- Chapterization -Framing the Title of the Report- Different Styles Of Referencing - Academic Vs Business Research Reports - Ethics In Research.

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Syllabus Revision- New Course

Semester I

Board: Management

Course Code/Name: Managing Organizational Behaviour

Unit	Content
I	Introduction to Organizational Behaviour: Historical background of OB - Concept Relevance of OB – Contributing disciplines - to the field of OB, challenges and opportunities for OB, foundations of Individual Behaviour. Theory – social theory- Organizational Citizenship Behaviour
II	Individual Difference - Personality – concept and determinants of personality – theories of personality – type of theories – trait theory – psycho analytic theory - social learning theory – Erikson’s stages of Personality Development Chris Argyris Immaturity to Maturity Continuum. Personality – Job fit. Perception: Meaning Process – Factors influencing perception – Attribution theory Learning: Classical, Operant and Social Cognitive Approaches – Managerial implications. Attitudes and Values: – Components, Attitude – Behaviour relationship, formation, values. Motivation: Early Theories of Motivation – Hierarchy of needs theory, Theory X and Theory Y, Two factor theory, McClelland’s theory of needs and Contemporary theories of motivation – Self – Determination theory, Job Engagement, Goal Setting theory, Self- efficacy theory, Re – inforcement theory, Equity theory, Expectancy theory.
III	Group Dynamics – Foundations of Group Behaviour – Group and Team - Stages of Group Development–Factors affecting Group and Team Performance - Group Decision making Interpersonal Communication – Communication Process – Barriers to Communication– Guidelines for Effective Communication
IV	Leadership – Trait, Behavioural and Contingency theories, Leaders vs Managers Power and Politics: Sources of Power – Political Behaviour in Organizations – Managing Politics. Conflict and Negotiation: Sources and Types of Conflict –Negotiation Strategies– Negotiation Process.
V	Work Stress: Stressors in the Workplace – Individual Differences on Experiencing Stress - Managing Workplace Stress. Organizational Culture and Climate: Concept and Importance – Creating and Sustaining Culture. Emotional Intelligence, Work Life Integration Practices. Knowledge based enterprise- systems and Processes; Networked and virtual organizations.


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Syllabus Revision

Board: Management

Semester I

Course Code/Name: Accounting For Managers

Unit	Existing	Changes
I	Financial Accounting: Introduction to Financial, Cost and Management Accounting- Generally accepted accounting principles, Preparation of Journal, Ledger and Trial Balance.	Financial Accounting – Meaning - Objectives - functions. Branches of Accounting: Financial, Cost and Management Accounting - Accounting Concepts and conventions. Journal – Ledger – Trial Balance – Preparation of Final Accounts: Trading, Profit and Loss Account and Balance Sheet (problems); International Accounting Standards - IFRS
II	Company Accounts: Meaning of Company -Maintenance of Books of Account-Statutory Books - Preparation of Final Accounts – Provisions relating to preparation of final accounts – Profit and loss account and Balance sheet Introduction-types of shares: Issue of Shares at par, Premium and at Discount - Forfeiture and Reissue of Shares-Rights issue - Recording of transactions relating to issue of shares. Issue and Redemption of Debentures - Redemption out of profits – sinking fund method / Recording of transactions relating to issue and redemption of debentures, Underwriting of Issue of Shares (Simple Problems)	Financial Statement Analysis - Objectives - Techniques of Financial Statement Analysis: Common Size and Comparative Financial Statements, Trend analysis, Ratio Analysis. Fund Flow Statement - Statement of Changes in Working Capital - Preparation of Fund Flow Statement - Cash Flow Statement Analysis- Distinction between Fund Flow and Cash Flow Statement – problem.
III	Management Accounting: Analysis of Financial Statements – Ratios , Comparative Statement, Common Size Balance Sheet, Cash flow Statement, Fund Flow Statement , Trend Analysis.	Marginal Costing - Definition - distinction between marginal costing and absorption costing - Break even point Analysis - Contribution, p/v Ratio, margin of safety - Decision making under marginal costing system-key factor analysis, make or buy decisions, export decision, sales mix decision- Problems.
IV	Cost Accounting: Cost Accounts - Classification of manufacturing costs -	Budget, Budgeting, and Budgeting Control - Types of Budgets - Preparation of



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	Accounting for manufacturing costs. Cost Accounting Systems: Job order costing - Process costing- Activity Based Costing- Costing and the value chain- Target costing- Marginal costing including decision making	Flexible and fixed Budgets, master budget and Cash Budget - Problems - Zero Base Budgeting.
V	Budgeting and Budgetary control: Budgetary Control – Meaning and Concepts - Preparation of Various Budgets, Variance Analysis – Material, Labour and Overhead.	Cost Accounting : meaning – Objectives - Elements of Cost – Cost Sheet(Problems) – classification of cost – Cost Unit and Cost Centre – Methods of Costing – Techniques of Costing. Standard costing and variance analysis Reporting to Management – Uses of Accounting information in Managerial decision-making. Reporting-Accounting Standards and Accounting Disclosure practices in India; Exposure to Practical Knowledge of using Accounting software- Open Source.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. S. J.
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School of Commerce and Management
Ponnaiyah Ramajayam Institute of
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Syllabus Revision- New Course

Semester I

Board: Management

Course Code/Name: Managerial Economics

Unit	Content
I	Introduction: Definition of Managerial Economics. Decision Making and the Fundamental Concepts Affecting Business Decisions – the Incremental Concept, Marginalism, Equi-marginal Concept, the Time Perspective, Discounting Principle, Opportunity Cost Principle- Micro and Macro Economics.
II	Utility Analysis and the Demand Curve: Elasticity of Demand - Demand Analysis: Basic Concepts, and tools of analysis for demand forecasting. Use of Business Indicators: Demand forecasting for consumer, Consumer Durable and Capital Goods. Input-Output Analysis – Consumer Behavior-Consumer Equilibrium
III	The Production Function: Production with One Variable Input – Law of Variable Proportions – Production with Two Variable Inputs – Production Isoquants – Isocost Lines Estimating Production Functions- Returns to Scale– Economies Vs Diseconomies of Scale – Cost Concepts – Analysis of cost – Short and long run costs. Market Structure: Perfect and Imperfect Competition – Monopoly, Duopoly, Monopolistic Competition – Pricing Methods.
IV	Macro Economic Variables – National Income- Concepts – Gross Domestic Product, Gross National Product, Net National Product – Measurement of National Income, Savings, Investment - Business Cycles and Contracyclical Policies – Role of Economic Policy – Indian Economic Planning
V	Commodity and Money Market: Demand and Supply of Money – Money Market Equilibrium – Monetary Policy – Inflation – Deflation – Stagflation- Role of Fiscal Policies- Indian Fiscal Policies - Government Policy towards Foreign Capital and Foreign Collaborations – Globalization and its Impact. Cashless economy and digitalized cash transfers; Economic models and its steps; FEMA-GST-Industrial Policy in India and its effects on growth.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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	Intellectual Property Rights		

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Syllabus Revision- New Course

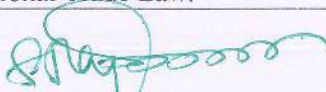
Semester : I

Board: Management

Course Code/Name: Legal Systems in Business

Unit	Content
I	The Law of Contracts: Definition of Contact Offer and Acceptance – Essential Elements of a Valid Contract: Free Consent – Competency of Parties – Lawful Consideration – Legality of Object. Void, Voidable, Unenforceable and Illegal Contracts – Performance of Contracts – Privity of Contracts – Assignment of Contracts – By Whom Contract must be Performed – Time and Place of Performance – Performance of Reciprocal Promises – Contracts which need not be performed, Discharge of Contracts : By Performance, By Agreement, By Impossibility, By Lapse of Time, By Operation of Law and By Breach of Contracts – Remedies for Breach of Contracts.
II	Sale of Goods Act: Definition of a Sale and a Contract of Sale – Difference between (1) Sale and an Agreement to Sell (2) Sale and a Contract Form (3) Sale and Bailment (4) Sale and Mortgage of Goods (5) Sale and Time Purchase Conditions and Warranties – Passing of Property of Goods – Rights of an Unpaid Seller. Negotiable Instruments Act: Negotiable Instruments in General: Cheques, Bills of Exchange and Promissory Notes – Definition and Characteristics
III	Partnership Act: Evolution – Definition of Partnership – Difference between Partnership and Joint Family Business – Kinds of Partnerships – Registration – Rights and Liabilities of Partners – Dissolution. Company Law: Evolution of Company Form of Organisation – Companies Separate Legal Entity – Comparison of Company with Partnership and Joint Hindu Family Business – Kinds of Companies – Comparison of Private and Public Companies – Formation of Companies – General Idea About Memorandum and Articles of Association, Prospectus, Statement in lieu of Prospectus – Management of Companies – General Idea of Management of Companies – Officers, Meetings – Resolutions – Account and Audit – Winding up of Companies – General Idea of the Different Modes of Winding Up.
IV	Labour Law: Factories Act, Minimum Wages Act, Industrial Disputes Act, Employees Compensation Act, Payment of Bonus Act 1965. Payment of Gratuity Act 1972. ESI Act, Employees Provident Fund and Miscellaneous Provisions Act 1952, Maternity Benefits Act, Child labour Abolition & Regulation Act, 1986- Inter-state Migrant Workmen (Regulation of Employment & Conditions of services) Act 1979- Bonded Labour system (Abolition) Act 1976- Sexual Harassment of women at Workplace (Prevention, Prohibition & Redressal) Act 2013- Contract Labour (Regulation and Abolition) Act- Four Labour Codes and Rules-RTI Act 2005.
V	Consumer Protection Act, Competition Act 2002, Cyber Crimes, IT Act 2008 – Intellectual Property Rights: Types of Intellectual Property – Trademarks Act 1999 – The Copyright Act 1957 – International Copyright Order, 1999 – Design Act, 2000; UNICITRAL – United Nations Commission on International Trade Law.


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PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.

S. Rajasekar
HOD
Department of Commerce
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
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Syllabus Revision- New Course

Semester II

Board: Management

Course Code/Name: Applied Operations Research

Unit	Content
I	Introduction: Overview of operations research – Origin – Nature, scope & characteristics of OR – Models in OR – Application of operations research in functional areas of management
II	Linear Programming Problem: Linear programming problem model – Formulation – Maximization & Minimization problem – Graphical method – Simplex method – Artificial variable – Primal & Dual.
III	Transportation problem: Basic Solution – North / West corner Solution, LCM, VAM, Matrices method – Optimal Solution – Stepping stone method – Vogel's approximation method – Modi method – Degeneracy – Imbalance matrix. Assignment model: Hungarian method – Traveling salesmen problem.
IV	Project Scheduling and Resource Management: Deterministic Inventory models – Purchasing & Manufacturing models – Probabilistic inventory models – Replacement model – Sequencing – Brief Introduction to Queuing models. Networking – Programme Evaluation and Review Technique (PERT) and Critical Path Method (CPM) for Project Scheduling- Crashing – Resource allocation and Resource Scheduling.
V	Game Theory and Strategies: Games theory – two player zero sum game theory – Saddle Point – Mixed Strategies for games without saddle points – Dominance method – Graphical and L.P Solutions- Goal Programming; Simulation; Integer programming and Dynamic programming.


PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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Syllabus Revision

Board: Management

Semester II

Course Code/Name: Human Resource Management

Unit	Existing	Changes
I	HR Roles and Functions Human Resource Management - Introduction and Importance - Evolution - Difference between Personnel Management and HRM - HR functions - Structure of HR Department - Role, Duties and responsibilities of HR manager- HRD System - HR Strategies and organisational Strategies.	Introduction: Introduction of Human Resource Management: Importance of Human Resources, Definition and Objectives of Human Resources Management, Qualities of a good HR manager - Evolution and growth of Human Resource Management in India. Functions of Human Resource Management. Strategic Human Resource Management (SHRM). Human Resource Policies: Need, type and scope, Human Resource Accounting and Audit- Gig Economy.
II	Human Resources planning and recruitment Objectives-Importance-HRP Process- Manpower Estimation-Job analysis-Job Description-Job Specification - Recruitment-Sources of Recruitment- Selection Process-Placement and Induction-Retention of Employees- merit rating - promotion - transfers- job enlargement - job enrichment - job rotation.	Human Resource Planning (HRP): Human Resources Planning: Long and Short term planning, Job Analysis, Skills inventory, Job Description, Job Specification and Succession Planning, Strategic Human Resource Planning. Recruitment and selection: Purposes, types and methods of recruitment and selection, Relative merits and demerits of the different methods, Recruitment and Social Media. Placement, Induction, Transfers, Promotions, Dismissal, Resignation, Exit Interviews, Reduction of attrition rate- Attrition and retention management
III	Training and Development and performance appraisal Training and Development - Training Process and Methodology - Need and objectives - Training procedure - Methods of Training - Evaluation of Training programmes Performance Management System - Definition, Concepts and Ethics-Different	Training, Development & Career Management: Importance and benefits of Training and Development, Types of Training Methods, Executive Development Programs, Concept and process of Career Management; Competency mapping, Knowledge Management & Talent Management.



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	methods of Performance Appraisal- Rating Errors-Competency management – Career Planning.	
IV	Compensation Management Concepts and Components- Compensation Plan – Reward – Motivation - job evaluation - Fringe benefits and services - Employee Welfare – retirement /Separation - Kinds of Retirement - Resignation, Discharge, Dismissal, Suspension, Retirement, Layoff, Voluntary Retirement / Separation Schemes, Golden handshake	Performance Management: Importance, process and Methods: Ranking, rating scales, critical incident method, Removing subjectivity from evaluation, MBO as a method of appraisal, Performance Feedback, Online PMS. Human Resource Information System; International Human Resource Management; Cross cultural diversity management; Hybrid work culture; work-life balance; Quality of work-life; HR Analytics.
V	Industrial Relations Factors influencing industrial relations - State Interventions and Legal Framework - Role of Trade unions - Collective Bargaining - Workers' participation in management- time management – Corporate Social Responsibility.	Compensation Management: Wage and Salary Administration: Job Evaluation, Calculation of Wage, Salary, Prerequisites, Compensation Packages, Cost of Living Index and Calculation of Dearness Allowance, Rewards and Incentives; ESOP-Financial and non-financial incentives, Productivity – linked Bonus, Compensation Criteria, Rewards and Recognition.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Management

Semester II

Course Code/Name: Marketing Management

Unit	Existing	Changes
I	Marketing: Meaning – Concept & its types –Functions and organisation – Marketing Planning– Core concepts of marketing (such as Need, Want, Demand, Customer Value, Exchange, Customer & Consumer, Customer Satisfaction, Customer Delight, Customer Loyalty, Marketing v/s Market, Selling versus Marketing). Concept of Marketing Myopia - Marketing Segmentation and Consumer Behaviour – Marketing Research	Introduction: Marketing Management Philosophies – What is marketing- The concepts of marketing- Marketing and Services – Digital Marketing – Social Media Marketing – Current marketing challenges; Rural Marketing – E-Rural Marketing – International Marketing – Industrial Marketing.
II	Product Characteristics – Classification – Product Differentiation – Product Hierarchy – Co-Branding – Packaging – Labeling – Warranties & Guarantees – New Product Development	Strategic Marketing– Marketing Management Process – Analysis of Marketing opportunities, Selecting Target Consumers, developing Marketing Mix Analysis of Macro and Micro environment Marketing Research as an Aid to Marketing, Marketing Research Process – Sales Forecasting –Techniques. Marketing Tactics, The Mix Service and Retail Marketing.
III	Understanding Pricing – Setting the Price – Types of Pricing Strategies – Initiating & Responding to the Price Changes	MIS: Marketing Information Systems- Customer Relationship Management (CRM) Customer Engagement Marketing – Sales force Automation- Marketing Analytics
IV	Role of Marketing Communication – Components of Promotion (Advertising, Sales Promotion, Personal Selling, Public Relations – Basic Concepts), Direct Marketing (Direct Mail, Catalogue, Tele Marketing),	Buyer Behaviour: Factors Influencing Consumer Behaviour – Buying situation– Buying Decision Process – Industrial Buyer Behaviour. Market Segmentation : Targeting and Positioning – Competitive Marketing Strategies. Customer Life Cycle – Customer Life time Value, Product Portfolio Management.
V	Importance of Marketing Channels – Functions – Channel Design – Channel Management – E-Commerce –	Product Policies: Consumer and Industrial Product Decisions, Branding, Packaging and Labelling – New Product Development and


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Marketing Practices – Retailing – Types & Recent Trends – Wholesaling – Market Logistics – Managing Sales Force	Product Life Cycle Strategies, Pricing – Pricing Strategies and approaches, Promotion Decisions: Promotion Mix – Integrated Marketing Communication – Advertising and Sales Promotion - Sales Force Decisions, Selection, Training, Compensation and Control – Publicity and Personal Selling – Distribution Management – Channel Management: Selection, Co- operation and Conflict Management – Vertical, Horizontal and Multi-channel Systems Consumer Protection – Awareness of Consumer Rights in the Market Place.
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PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. S. Srinivasan
DEAN
School of Commerce and Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.

S. Srinivasan
HOD
Department of Commerce
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THANJAVUR - 613 403.



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Syllabus Revision- New Course

Semester II

Board: Management

Course Code/Name: Operations Management

Unit	Content
I	INTRODUCTION: Operations Management- Nature, Scope, Historical Development, Functions- Long term Vs Short term issues- A Systems Perspective- Challenges- Manufacturing Trends in India-Production Design and Process Planning- Types of Production Processes- Plant Capacity-Capacity Planning- Make or Buy Decisions- Use of Crossover Chart for Selection Processes-Types of Charts used in Operations Management.
II	FACILITY DESIGN: Plant Location: Factors to be considered in Plant Location- Location Analysis Techniques- Choice of General Region, Particular community and Site- Multiple Plant Location Decision- Plant Location Trends. Layout of Manufacturing Facilities: Principles of a Good Layout- Layout Factors- Basic Types of Layout- Principles of Materials Handling- Materials Handling Equipment - Role of Ergonomics in Job Design.
III	INVENTORY CONTROL AND MAINTENANCE: Basic Inventory Models- Economic Order Quantity- Economic Batch Quantity- Reorder Point-Safety Stock- Inventory Costs-Classification and Codification of Stock- ABC Classification-Materials Requirement Planning (MRP)- JIT- Implications of Supply Chain Management. Maintenance: Preventive Vs Breakdown Maintenance- Group Replacement Vs Individual Replacement- Breakdown Time Distribution- Maintenance of Cost Balance- Procedure for Maintenance.
IV	DESIGN OF WORK SYSTEMS AND QUALITY CONTROL: Work Study- Objectives- Procedure- Method Study and Motion Study- Work Measurement- Time Study-Performance Rating- Allowance Factors- Standard Time- Work Sampling Techniques- Job Sequencing and Scheduling. Quality Control: Purpose of Inspection and Quality Control- Different Types of Inspection- Acceptance Sampling- The Operating Characteristic Curve- Control Charts for Variables and Attributes; Quality Circles; TQM – Six Sigma, Kaizen
V	SERVICE OPERATIONS MANAGEMENT: Introduction to Services Management- Nature of Services- Types of Services- Service Encounter- Designing Service Organizations- Service Facility Location and Layout- Service Blueprinting-Waiting Line Analysis for Service Improvement- Service Processes and Service Delivery.


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COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
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✓	Gender Sensitization		Human Values
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	Intellectual Property Rights		

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Syllabus Revision

Board: Management

Semester II

Course Code/Name: Financial Management

Unit	Existing	Changes
I	Introduction of Financial Management: Concept of Finance, Corporate Finance, Finance Functions and other functions. Structures of the Financial System. Financial Management – Meaning, functions and Objectives of Financial Management- Financial Planning and Forecasting of short term and long term – time value of money – risk and return.	Introduction: Financial management: Definition and scope – objectives of Financial Management – Profit Maximization - wealth maximization - functions and role of finance manager. Sources of finance – short term – Bank Sources – Long term – Shares – Debentures – Preferred stock – Debt: Hire purchase, Leasing, Venture Capital – Private equity- International Financial Management- Financial Planning- Behavioural Finance- Capital Market- Money Market- Micro Finance- Financial Information System.
II	Financing Decision Sources of funds - Relative merits and demerits, Capitalization - Under Capitalization and Over Capitalization- Capital Structure - theories of capital structure - Factors affecting capital structure - Financing decision in practice - leverage - Operating, Financial and combined leverage - Cost of capital - Costs of individual components of capital - Weighted Average cost of capital.	Investing Decision - Capital Budgeting Process – Techniques of Investment Appraisal: Pay Back Period; Accounting Rate of Return, Time Value of Money- DCF Techniques –Net Present Value, Profitability Index and Internal Rate of Return- Problems - Risk analysis in Capital Budgeting- Introduction to Fintech – Digital Currency - Cryptocurrency – Financial Modeling; Hurdle Rate.
III	Investment Decision Nature and Significance of Investment Decision - Estimation of cash flows - Capital Budgeting Process - techniques of investment appraisal: Pay back period; Accounting Rate of Return - DCF Techniques - Net present value, Profitability Index and Internal Rate of Return - Investment appraisal practices in Indian companies.	Cost of Capital - Cost of specific sources of capital – Cost of equity capital – Cost of debt – Cost of preference – Cost of retained earnings - weighted average cost of capital. EBIT -EPS Analysis - Operating Leverage - Financial Leverage-problems.



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IV	Working Capital Decision Meaning - Nature of working capital - Classification and significance of working capital - financing of Working capital - Component of working capital, Cash, Short-term marketable securities - Management of Cash and Receivables	Capital structure - Factors influencing capital structure – optimal capital structure - capital structure theories – Net Income Approach – Net Operating Income (NOI) Approach – Modigliani - Miller(MM) Approach – Traditional Approach – Practical Problems. Dividend and Dividend policy: Meaning, classification - sources available for dividends - Dividend policy general, determinants of dividend policy.
V	Dividend Decision Management of Profits - Meaning and Significance - Theories of Dividend - Determinants of dividend - Dividend Policy - Dividend policies in practice - Legal aspects of Dividends – Bonus shares – stock splits.	Working Capital Management - Definition and Objectives - Working Capital Policies - Factors affecting Working Capital requirements - Forecasting Working Capital requirements (problems) - Cash Management - Receivables Management and - Inventory Management - Working Capital Financing - Sources of Working Capital and Implications of various Committee Reports- Financial Analytics.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Management

Semester II

Course Code/Name: Strategic Management

Unit	Existing	Changes
I	INTRODUCTION TO STRATEGIC MANAGEMENT Strategic Management and Competitiveness- Technology and Technology- Stakeholders in business – Vision, Mission and Purpose – Business definition, Objectives and Goals – Strategic Business unit (SBU); Functional level strategies - Corporate Governance and Social responsibility	Introduction: Strategy – Strategic Management Process – Developing a Strategic Vision –Mission- Setting Objectives– Strategies and Tactics – Importance of Corporate Strategy – the 7-S Framework- Corporate Governance– Board of Directors: Role and Functions – Board Functioning – Top Management: Role and Skills.
II	ENVIRONMENTAL ANALYSIS The External Environment: Opportunities, Threats, Competition and Competitor Analysis. External Environmental Analysis, Segments of the External Environment, Porters 5 Force Model, The internal Environment: Resource, Capabilities, Competencies and Competitive advantages. Analyzing internal organization -Building Core Competencies-Value Chain Analysis, Outsourcing.	Corporate Policy and Planning in India: Importance – Characteristics – Objectives - Policy Formulation and Development – Types of Business Policies- Implementation of Policies. Society and Business: Social Responsibility of Business –Corporate Governance and Ethical Responsibility.
III	STRATEGIES The generic strategic alternatives – Stability, Expansion, Retrenchment and Combination strategies - Business level strategy- Strategy in the Global Environment-Corporate Strategy- Vertical Integration-Diversification and Strategic Alliances- Building and Restructuring the corporation- Strategic analysis and choice - Environmental Threat and Opportunity Profile (ETOP) - Organizational Capability Profile - Strategic Advantage Profile - Corporate Portfolio Analysis - SWOT Analysis - GAP Analysis - Mc Kinsey's 7s Framework - GE 9 Cell Model -	Environmental Analysis: Environmental Scanning – Industry Analysis - The Synthesis of External Factors - Internal Scanning – Value Chain Analysis – SWOT Audit –Scenario planning- Creating an Industry Matrix.


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	Distinctive competitiveness - Selection of matrix - Balance Score Card	
IV	STRATEGY IMPLEMENTATION & EVALUATION The implementation process, Resource allocation, Designing organisational structure-Designing Strategic Control Systems- Matching structure and control to strategy-Implementing Strategic change-Politics-Power and Conflict-Techniques of strategic evaluation & control-case study	Strategy Formulation and Analysis: Strategy Formulation – Strategic Factors Analysis Summary Matrix (SFAS) Portfolio Analysis – Business Strategy- TOWS Matrix– Corporate Strategy – Functional Strategy – Strategic Choice – Generic, Competitive Strategies; ETOP, TOWS
V	STRUCTURE AND CONTROLS Structure and Controls with Organizations- Organizational Structure and controls, Evolutionary Patterns of strategy and organizational structure. Leadership Implications for Strategy- Entrepreneurial Implications for Strategy – Functional Strategies.	Strategy Implementation: Strategy Implementation - Corporate Culture – Matching Organisation Structure to Strategy – Mergers and Acquisitions and Diversifications – Strategic Leadership Strategic Control: Measurement in Performance- Problems in Measurement of Performance- Strategy Audit-Strategic Control Process – Du Pont’s Control Model – Balanced Score Card – Michael Porter’s Framework for Strategic Management – Future of Strategic Management – Strategic Information System.

PERCENTAGE OF SYLLAUS REVISED: 100
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BOS

Syllabus Revision- New Course

Semester III

Board: Management

Course Code/Name: INFORMATION SYSTEMS FOR BUSINESS

Unit	Content
I	Introduction to information system-The management, structure and activities- Information needs and sources-Types of management decisions and information need. System classification Elements of system, input, output, process and feedback.
II	Transaction Processing information system, Office Automation System (OAS) - Knowledge workers System(KWS); MIS; Information system for managers, Intelligence information system –Decision support system-Executive information systems.
III	Functional Management Information System: Production / Operations Information system, Marketing Information Systems, Accounting Information system, Financial Information system, Human resource Information system.
IV	System Analysis and Design: The work of a system analyst- SDLC-System design – AGILE Model – Waterfall Model – Spiral Model – Iterative and Incremental Model - RAD Model - Requirement analysis-Data flow diagram, relationship diagram, design-Implementation-Evaluation and maintenance of MIS, Database System: Overview of Database- Components-advantages and disadvantages of database; Data Warehousing and Data Mining; Business Intelligence; Artificial Intelligence; Expert System; Big Data; Cyber Safety and Security- Cryptography; RSA Model of Encryption; Data Science - Block Chain Technology; E-commerce and E-Business models; IOT - RFID.
V	Enterprise Resource Planning (ERP) System, Benefits of the ERP, ERP how different from conventional packages , Need for ERP , ERP components , Selection of ERP Package, ERP implementation, Customer Relationship management. Organisation & Types, Decision Making, Data & information, Characteristics & Classification of information, Cost & value of information, various channels of information and MIS; Information system audit and control – E-Governance.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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S. Rajasekar
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Science & Technology (PRIST)
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Syllabus Revision

Board: Management

Semester III: Elective (FINANCE)

Course Code/Name: Corporate Finance

Unit	Existing	Changes
I	INDUSTRIAL FINANCE Indian Capital Market – Basic problem of Industrial Finance in India. Equity – Debenture financing – Guidelines from SEBI, advantages and disadvantages and cost of various sources of Finance - Finance from international sources, financing of exports – role of EXIM bank and commercial banks– Finance for rehabilitation of sick units.	Introduction to Corporate Finance: Corporate – Nature and Scope – Role of Financial Institution – Valuation of the Firm – Time value of money concepts.
II	SHORT TERM-WORKING CAPITAL FINANCE Estimating working capital requirements – Approach adopted by Commercial banks, commercial paper- Public deposits and inter corporate investments.	Indian Capital Market – Basic problem of Industrial Finance in India. Fiscal Policies, Government Regulations affecting Capital Market – Role of SEBI –Stock Markets - Equity–Debenturefinancing– GuidelinesfromSEBI,advantagesa nndisadvantages
III	ADVANCED FINANCIAL MANAGEMENT Appraisal of Risky Investments, certainty equivalent of cash flows and risk adjusted discount rate, risk analysis in the context of DCF methods using Probability information, nature of cash flows, Sensitivity analysis; Simulation and investment decision, Decision tree approach in investment decisions.	Investment Decision: Investment Analysis – Risk Analysis - Probability Approach. Business Failures, Mergers, Consolidations and liquidation.
IV	FINANCING DECISION Simulation and financing decision - cash inadequacy and cash insolvency- determining the probability of cash insolvency- Financing decision in the Context of option pricing model and agency costs- Inter-dependence of investment- financing and Dividend decisions.	Finance from international sources, – role of EXIM bank and commercial banks – Finance for rehabilitation of sick units. Inflation and Financial Decisions.
V	CORPORATE GOVERNANCE Corporate Governance - SEBI Guidelines- Corporate Disasters and Ethics- Corporate Social Responsibility- Stakeholders and Ethics- Ethics, Managers and Professionalism.	Foreign Collaboration – FDI and FIIS Business Ventures Abroad. International Financial Institutions & Multinational Corporations; Global Minimum Tax


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**PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision

Board: Management

Semester III: Elective (FINANCE)

Course Code/Name: Security Analysis and Portfolio Management

Unit	Existing	Changes
I	Introduction to Investment and Securities Introduction to Securities – Types of Securities - Investment Process – Investment Alternatives – Securities Markets - Stock Exchanges and its Functions – Functions and guidelines of SEBI. Risk Return: Security Returns- Risk Measurements – Picturing Risk and Return.	Investment - Concept of investment-importance- alternate forms of investment-LIC schemes-bank deposits-government securities-mutual fund schemes-post office schemes-provident fund-company deposits-real estate- Gold and Silver- Growth adjusted value investing strategy; G-Secs; P-note investments. Concepts of risk and return, measurement of risk is measured in terms of standard deviation and variance, the relationship between risk and return.
II	FUNDAMENTAL ANALYSIS Economic Analysis – Economic forecasting and stock Investment Decisions – Forecasting techniques. Industry Analysis : Industry classification, Industry life cycle – Company Analysis Measuring Earnings – Forecasting Earnings – Applied Valuation Techniques – Graham and Dodds investor ratios.	Securities Market - Investment Environment; Financial Market - Segments – Types - Participants in financial Market – Regulatory Environment, Primary Market – Methods of floating new issues, Book building – Role of primary market – Regulation of primary market, Stock exchanges in India – BSE, OTCEI, NSE, ISE, and Regulations of stock exchanges – Trading system in stock exchanges –SEBI.ESG, Stop loss, Fat finger trades, circuit breaker, T+1 and T+2 settlement, Funding of Social Sector; open interest volume and prices; free float in listed companies; Algo trading; Block Chain Technology.
III	TECHNICAL ANALYSIS Fundamental Analysis Vs Technical Analysis – History of Technical Analysis – Technical Tools – Dow theory - Trend Models- Market Indicators – Efficient Market Theory : Basic Concepts – The Random Walk Theory.	Fundamental Analysis - Economic Analysis – Forecasting techniques. Industry Analysis; Industry classification, Industry life cycle – Company Analysis. Measuring Earnings – Forecasting Earnings – Applied Valuation Techniques – Graham and Dodds investor ratios.
IV	Valuation of Securities Valuation of Bonds: Bond VS Debenture- Classification of Bonds – Time Value Concept – Methods of Bond	Technical Analysis - Fundamental Analysis Vs Technical Analysis – Charting methods – Market Indicators. Trend –Trend reversals – Patterns - Moving Average – Exponential moving Average –



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	Return and Valuation- Bond Value Theorems –Convexity –Immunisation – Valuation of Equity: Return on Equity – Various Model of Equity Valuation.	Oscillators – Market Indicators – Efficient Market theory.
V	Portfolio Management Portfolio Management: Definition – Selection of portfolio – Markowitz model – Sharp Index Model –Capital Asset Pricing Theory and Arbitrage Pricing Model – Portfolio Evaluation – Portfolio Revision.	Portfolio Management -Portfolio analysis – Portfolio Selection –Capital Asset Pricing model – Portfolio Revision –Portfolio Evaluation

PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
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	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: III Elective (Finance)

Board: Management

Course Code/Name: Tax Management

Unit	Content
I	Introduction: Income Tax Law – important concepts -Scheme of Taxation –types of Taxes, concept, objectives canons of Taxation and factors to be considered for Tax Planning - Tax exemption – Residential status–Tax free incomes.
II	Heads of Income – Salaries, definition of salary, Fringe benefits and perquisites, Profit in lieu of salary and tax planning avenues for salary income, Income from house property, profits and gains of Business of profession, capital gains- Provisions relating to Capital Gains Tax and exemptions from Capital Gains Tax- Income from other sources - basis of charge; chargeable incomes; specific deductions; amount not deductible; computation of taxable income from other sources.
III	Deductions to be made in computing total income – Resales and Reliefs of Income tax–Taxation of Non-Residents. Income –tax Payment and Assessment-Tax deduction at source; advance tax; self-assessment tax assessment procedure - Filing of Income Tax Returns – Provisions, Forms and Due Dates, Notices and Assessments –Regular and best judgment assessment revision, rectification and appeal, provision relating to interest and refund of tax.
IV	Corporate Taxation - Computation of taxable income, Carry-forward and set-off of losses for companies, Minimum Alternative Tax (MAT), Set-off and Carry-forward of Amalgamation Losses. Tax planning in capital budgeting decision, leasing, hire purchase or buy decision raising of capital: equity, debt or preference share, transfer pricing and its impact. tax Provisions for Venture Capital Funds
V	Wealth Tax and Other Direct Taxes- Wealth Tax Act and Rules, definition of Wealth and Its Components Wealth escaping Assessment, Assets Exempt from Wealth Tax, Gift Tax Act and Rules and Estate Duty Act. Assessment of Trusts and Assessment of companies – Deemed income under MAT Scheme – Tax on income by UTI or Mutual fund – Venture Capital Company/Venture Capital Funds.


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SCHOOL OF COMMERCE AND MANAGEMENT
DEPARTMENT OF BUSINESS MANAGEMENT

BBA Syllabus Revision

Board: Management


Semester I:

Course Code/Name: Principles of management

Unit	Existing	Changes
I	Organization - Management – Importance – concepts- Nature – functions- Role of managers- Management and administration – Evolution of management thought – Modern management Approaches – MBO –Merits and Demerits.	Management: Importance – Definition – Nature and Scope of Management - Process – Role and Functions of a Manager – Levels of Management – Development of Scientific Management and other Schools of thought and approaches.
II	Nature and purpose of planning – Planning process - types of plans - strategies – Types of Strategies – Decision Making- Types - Process- Rational decision making process.	Planning: Nature – Importance – Forms – Types – Steps in Planning – Objectives – Policies – Procedures and Methods – Natures and Types of Policies – Decision –making – Process of Decision – making – Types of Decision.
III	Nature and purpose of organizing - Organization structure – Process of organization – Departmentalization – Span of control – Delegation of authority, responsibility – Accountability – Centralization and decentralization - Selection and Recruitment.	Organizing: Types of Organizations – Organization Structure – Span of Control and Committees – Departmentalization – Informal Organization- Authority – Delegation – Decentralization – Difference between Authority and Power – Responsibility.
IV	Directing – Principles – Elements – Motivation, Theories of motivation: Maslow, Herzberg, Vroom models – Communication- Hurdles to effective communication	Direction – Nature and Purpose. Co-ordination – Need, Type and Techniques and requisites for excellent Co-ordination – Controlling – Meaning and Importance – Control Process.
V	Control – Controlling – Need for control – Control process – Control techniques. Leadership - leadership theories -- Styles – Managerial grid. Co-ordination – meaning – need – types.	Definition of Business ethics - Types of Ethical issues -Role and importance of Business Ethics and Values in Business - Ethics internal - Ethics External - Environment Protection - Responsibilities of Business


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**PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Management

Semester III: Elective (FINANCE)

Course Code/Name: Merchant Banking and Financial Services

Unit	Existing	Changes
I	Introduction – An Over view of Indian Financial System – Merchant Banking in India – Recent Developments and Challenges ahead – Institutional Structure – Functions of Merchant Bank - Legal and Regulatory Framework – Relevant Provisions of Companies Act- SERA- SEBI guidelines- FEMA, etc. - Relation with Stock Exchanges and OTCEI.	Merchant Banking: Introduction–An Overview of Indian Financial System– Merchant Banking in India–Recent Developments and Challenges ahead – Institutional Structure – Functions of Merchant Bank - Legal and Regulatory Framework –Relevant Provisions of Companies Act- SERA- SEBI Guidelines - FEMA, etc. –Relation with Stock Exchanges and OTCEI.
II	Role of Merchant Banker in Appraisal of Projects, Designing Capital Structure and Instruments – Issue Pricing – Book Building – Preparation of Prospectus Selection of Bankers, Advertising Consultants, etc. - Role of Registrars –Bankers to the Issue, Underwriters, and Brokers. – Offer for Sale – Green Shoe Option – E-IPO, Private Placement – Bought out Deals – Placement with FIs, MFs, FIIs, etc. Off - Shore Issues. – Issue Marketing – Advertising Strategies – NRI Marketing – Post Issue Activities	Issue management: Role of Merchant Banker in Appraisal of Projects, Designing Capital Structure and Instruments –Issue Pricing – Book Building – Preparation of Prospectus – Selection of Bankers – Advertising Consultants etc.- Role of Registrars – Bankers to the Issue, Underwriters, and Brokers. – Offer for Sale – Green Shoe Option–E-IPO, Private Placement– Bought out Deals–Placement with FIs, MFs, FIIs, etc. Off-Shore Issues.–Issue Marketing– Advertising Strategies – NRI Marketing–Post Issue Activities.
III	Mergers and Acquisitions – Portfolio Management Services – Credit Syndication – Credit Rating – Mutual Funds - Business Valuation	Fee based financial services: Mergers and Acquisitions-Portfolio Management Services – Credit Syndication –Credit Rating – Business Valuation.
IV	Leasing and Hire Purchasing – Basics of Leasing and Hire purchasing – Financial Evaluation.	Fund based financial services: Leasing and Hire Purchasing Basics of Leasing and Hire purchasing–Financial Evaluation.
V	Consumer Credit – Credit Cards – Real Estate Financing – Bills Discounting – factoring and Forfeiting – Venture Capital.	Other fund based financial services: Consumer Credit – Credit Cards – Real Estate Financing–Bills Discounting – factoring and Forfeiting–Venture Capital.

K. S. Srinivasan
DEAN

School of Commerce and Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.

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**PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision


Board: Management

Semester III: Elective (FINANCE)

Course Code/Name: Derivative Management

Unit	Existing	Changes
I	INTRODUCTION Derivatives – Definition – Types – Forward Contracts – Futures Contracts – Options – Swaps – Differences between Cash and Future Markets – Types of Traders – OTC - Derivative Market - Economic functions of derivative market	Introduction: Derivatives – Definition –Types – participants and functions- Forward Contracts – Futures Contracts – Options – Swaps – Differences between Cash and Future Markets – Types of Traders – OTC and Exchange Traded Securities – Types of Settlement – Uses and Advantages of Derivatives, Risks in Derivatives.
II	FUTURES CONTRACT Specifications of Futures Contract - Margin Requirements – Contract Size - Market Quotes - Hedging using Futures – Types of Futures Contracts – Delivery Options – Relationship between Future Prices, Forward Prices and Spot Prices	Forward contracts – Futures contracts – structure of forward & futures markets - Types of Futures Contracts -Margin Requirements – Marking to Market – Hedging using Futures — Securities, Stock Index Futures, Currencies and Commodities – Delivery Options – Relationship between Future Prices, Forward Prices and Spot Prices.
III	OPTIONS Definition – Exchange Traded Options, OTC Options – Option Pricing Models – Call and Put Options – American and European Options – Option payoff, options on Securities, Stock Indices, Currencies and Futures .	Options -Definition – Exchange Traded Options, OTC Options – Specifications of Options – Call and Put Options – organized options trading – listing requirements – contract size – exercise prices – expiration dates – position & exercise limits -American and European Options – Intrinsic Value and Time Value of Options – Option payoff, options on Securities, Stock Indices, Currencies and Futures – Options pricing models –Differences between future and Option contracts.


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IV	SWAPS & Forward Contract Definition of SWAP – Types of SWAP - Interest Rate SWAP – Currency SWAP – Role of Financial Intermediary –Valuation of Interest rate SWAPs and Currency SWAPs – Forward Contract – Forward Pricing.	Principles of Option pricing – Put Call Parity relationship – Option pricing models – The Black Scholes Model – The Binomial model – Principles of forward and future pricing – the cost of carry model.
V	DERIVATIVES IN INDIA Evolution of Derivatives Market in India – Regulations & Framework – Derivative Trading – Commodity Futures - Determination of the Fair Value of Futures and Options Prices, Interactions between Spot Equity Trading and Trading in Derivatives. Index Options and Futures, Constructing an Index	Commodity Futures – Contract Terminology and Specifications for Stock Options and Index Options in NSE – Contract Terminology and specifications for stock futures and Index futures in NSE – Contract Terminology and Specifications for Interest Rate Derivatives.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
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	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: III Elective (Finance)

Board: Management

Course Code/Name: Banking and Insurance

Unit	Content
I	Indian Financial System: Introduction to Financial System – Business of Banking - Organizational Structure of Indian Financial System - Role of Government & Reserve Bank of India As Regulators of Banks - Role & Functions of Banks – Regulatory Provisions/Enactments Governing Banks - Various Committees on Banking & Their Impact - Recent Developments in Indian Financial System - Aadhaar Seeding- -Self Help Groups, Financial Inclusion- Jan Dhan Yojana Accounts- NBFCs - Micro Finance Institutions, Small finance banks and payment banks.
II	Basics of Banking: Basic Concepts in Banking - Banker-Customer Relationships – Know Your Customer, Anti Money Laundering -Guidelines - Negotiable instruments – Bankers’ Duties and Responsibilities - DICGC - Types of Customers & Various Types of Accounts - Deposit Products – Services Rendered by Banks - Principles of Lending - Approach to Lending & Steps in Lending - Credit Management & Credit Monitoring - Priority Sector Lending in Banks- Lending to Agriculture, Micro, Small & Medium Enterprises - Recovery & Modes of Recovery and Management of Non-Performing Assets - Basics of Risk Management in Banks.
III	Electronic Banking: Current Trends and Role of information & Communication Technology in Banking - Core Banking Solutions vis-a-vis Traditional Banking - Banking Technology – Alternate Delivery Channels – ATMs, Credit/Debit Cards/Mobile Banking / Internet Banking etc. - Cheque Truncation System of cheque clearance, E-Lounges, UPI, BHIM (Bharath Interface for money), Products and Impact - Electronic Funds Transfers – Real Time Gross Settlements (RTGS) & National Electronic Funds Transfer (NEFT) –NACH Global Trends in Banking Technology - IT Security in Banks & Disaster Management - Marketing of Banking Services; Marketing of Banking Services – Meaning, Importance and Functions - Market Research & Product Development - Factors influencing Marketing of Banking Products Third Party Products in Banking, One stop shop Financial solutions in Banks - Financial Advisory Services (FAS).
IV	Insurance: Meaning – Nature and Importance – Risk Management; Identification – Measurement – Diversification – Strategies Theories – Sum of Large Numbers Theory of Probability Insurance Regulation; IRDA Regulations – Insurance Contract – Agent Norms – Generic Norms of Insurance Advisors.



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V	General Insurance: Marine Insurance – Fire Insurance – Automobile Insurance – Home Insurance - House +Articles insurance- Overseas Travel Insurance– Medical Insurance – Group Medi claim- Jewellery Insurance, Social Security Insurance .Life Insurance; Principles – Uberima fides Insurable Interest – Indemnity – Subrogation – Contribution Products; Death and Survival Classifications – Traditional Salary Savings Scheme – Employees Deposit Linked Insurance – ULIPs – Premium Fixation Cases.
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**PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:**

<input type="checkbox"/>	Skill development	<input type="checkbox"/>	Entrepreneurial development
	Employability		Professional Ethics
<input type="checkbox"/>	Gender Sensitization		Human Values
<input type="checkbox"/>	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: Semester : III (Finance Elective)

Board: Management

Course Code/Name: Capital Markets and Financial Services

Unit	Content
I	<p>Indian Financial System: Regulators: Finance Ministry, Securities Exchange Board of India, Reserve Bank of India, Forward Market Commission, Insurance Regulatory and Development Authority. Primary Market: Role of Primary Market, Functions, Intermediaries, methods of floatation of capital – IPO's, FPO's and Rights issues, Investor protection in primary market, Recent trends in primary market. Book building process. Secondary Market: Functions, intermediaries, Demutualization structure, Major stock exchanges in India. Indian Stock Exchanges: Market types, order types and books. BSE: BOLT System, NSE: NEAT system OTCEI – Need, Features, Participants, Listing procedure, Trading and Settlement. Legislative framework guiding the capital markets and intermediaries</p>
II	<p>Listing and trading of Securities: Listing requirements, procedure, fee- Listing conditions of BSE and NSE – Delisting. Legislations related to listing. Trading cycle: T+2, Pay in and Pay out, Bad Delivery, Short delivery, Auction, Clearing & Settlement: Different types of settlements -DEMAT settlement, Physical settlement, Institutional settlement and Funds settlement. Risk Management system in BSE & NSE: Margins, Exposure limits, VAR, Circuit breakers and Surveillance system in BSE and NSE. Index Management: Importance of index computation Methods: Weighted Aggregate Value method, Weighted Average of Price Relatives method, Free Float method. Stock market indices in India</p>
III	<p>Leasing and Hire Purchase Lease and Hire purchase- – Meaning and Types of leasing – Legislative frameworks – Matters on Depreciation and Tax –Concepts and features – Tax and Depreciation. implications Microfinance: Consumer Credit - Factoring and Forfeiting</p>
IV	<p>Credit rating & Securitization: Credit rating: Definition and meaning- Process of credit rating of financial instruments - Rating methodology - Rating agencies – Rating symbols of different companies. Legislative framework guiding the CRAs. Securitization: Meaning-Features - Special Purpose Vehicle - Pass Through Certificate & mechanism – Benefits of Securitization – Issues in Securitization. Legislative framework guiding the securitization framework.</p>

K. S. S.
DEAN

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V	Depositories & Contemporary Issues Depository services - Role of depositories and their services — Advantages of depository system – NSDL and CDSL - Depository participants and their role- Stock Broking Services including SEBI guidelines - Contemporary developments in capital market performance and implication of securitization in Indian scenario.
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PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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Syllabus Revision- New Course

Semester: Semester : III (Finance Elective)

Board: Management

Course Code/Name: Fixed Income Securities

Unit	Content
I	Bond and Money market instruments: Bonds, market participants, Money market instruments - Organization of Government Bond market and role of RBI in Government Securities. Bond Prices and Yields: Pricing of bonds - Time value of money - nominal Vs. Real interest rates, coupon rate and current yield, zero coupon rate. Supply and demand of bonds. Changes in equilibrium interest rates.
II	Term structure of interest rates: classical theories of term structure - Yield curve, zero coupon bond yield curve. Bond price volatility – Price sensitivity – Bond Price Immunization - measurement of duration, modified duration – convexity measurement. Factors influencing Yield. Term structure of Interest rates – spread, corporate debt instruments.
III	Active and Passive Bond Portfolio construction - Management strategies. Indexing-bond indices. Setting portfolio objectives, interpreting portfolio parameters and performance measurement
IV	Swaps and futures, Credit derivatives – credit default swaps, plain vanilla options and more exotic derivatives
V	Mortgage-backed securities – collateral mortgage obligations, Asset Backed Securities-Collateral debt obligations

**PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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BOS

Syllabus Revision- New Course

Semester: Semester : III (Finance Elective)

Board: Management

Course Code/Name: International Financial Management

Unit	Content
I	Introduction to international finance: Introduction, Meaning, Nature, scope, Importance, Gold Standard, Bretton Woods system, Exchange rate regimes, fixed and floating exchange rates.
II	Foreign exchange market: Function and Structure of the Forex markets, major participants, types of transactions and settlements, Foreign exchange quotations, process of arbitrage.
III	Management of foreign exchange exposure and risk: Types of Exposure, Foreign Currency Exposure, Economic Exposure, Operations exposure, Interest rate exposure. Theories - Purchase Power Parity - Interest Rate Parity – International Fisher Effect
IV	Cross-border investment decisions: Capital budgeting, Approaches to Project Evaluation, Risk in Cross-border Investment Decisions, Corporate Risk in Investment Decisions. Financing Decisions of MNC's.
V	Multinational financing institutions and contemporary issues: The International Bank for Reconstruction and Development, the International Development Association, The International Finance Corporation, International monetary fund, Export and Import financing.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
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Syllabus Revision- New Course

Semester: Semester : III (Finance Elective)

Board: Management

Course Code/Name: Risk Management in Banks

Unit	Content
I	Introduction to risk: Understanding Risk - Nature of Risk, Sources of Risk, Need for risk management, Benefits of Risk Management, Risk Management approaches. Risk Classification using ERM Wheel. Information Technology support in mitigating risk. Role of Chief finance Officer, Chief risk officer and Chief information officer in mitigation of risk in banks.
II	Market risk & exchange rate risk: Market Risk – Identification-measurement-mitigation-risk and regulatory capital. Portfolio Beta - PV01 - Portfolio duration - Key rate duration – Convexity - Spread analysis - Yield curve analysis - Concept of Value at Risk - Types of VaR measures - VaR reporting to RBI - Stress testing and back-testing VaR- ConditionalVaR and its relevance - Comparison between VaR and cVaR. Exchange rate risk- drivers-measurement- risk management – forecasting- tools- futures, options and swaps.
III	Interest rate risk & liquidity risk: Interest rate risk-relationship between interest rates and option free bond prices. Duration and Price volatility. GAP and earnings sensitivity. Measuring Interest rate risk with duration gap. Economic value of equity analysis. Usage of derivatives to manage Interest risk- micro hedging- macro hedging- SWAPS - caps – floor Liquidity risk – objectives – CRR & SLR measures - Funding the bank - Liquidity management - Asset liability management – objectives- ALCO - functions – risks. ALM – Risk control and hedging. ALM systems in Banks - RBI Guidelines. Strategies to mitigate liquidity risk
IV	Credit risk: Drivers- capital adequacy- risk rating and pricing - loan policy – capital requirement - credit risk approach – credit ratings. Credit risk mitigation - Credit derivatives, Securitization. Credit risk management strategies – Credit VaR - Analysis of counterparty credit ratings and adjustment of credit spreads in the valuation etc. - Credit default swaps (CDS). Sovereign Credit Rating – Rating - Probability of Default (PD) – LGD - Stress testing - Early Warning - Scenario Building etc.,
V	Operational risk & technology risk and contemporary issues: Operational risk- definition- types- events. Operational risk management practices- approaches- organizational setup- responsibilities. Identification- measurement- monitoring- mitigation- internal audit. Strategies to mitigate operational risk. Technology risk: Identification of the drivers and strategies to mitigate the technology risk - Contemporary risk management practices in Indian Banks.

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✓	Skill development	✓	Entrepreneurial development
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✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: Semester : III (Finance Elective)

Board: Management

Course Code/Name: Advertising Management and Sales Promotion

Unit	Content
I	Advertising: Advertising, objectives, task and process, market segmentation and target audience – Message and copy development.
II	Media: Mass Media - Selection, Planning and Scheduling – Social Media Advertising - Web Advertising – Integrated programme and budget planning.
III	Implementation: Implementing the programme coordination and control – Advertising agencies – Organization and operation.
IV	Sales Promotion: Why and When Sales promotion activities, Consumer and sales channel oriented – planning, budgeting and implementing and controlling campaigns.
V	Control: Measurement of effectiveness – Ethics, Economics and Social Relevance.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

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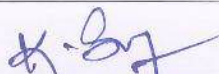
Syllabus Revision- New Course

Semester: Semester : III (Marketing Elective)

Board: Management

Course Code/Name: Sales and Distribution Management

Unit	Content
I	Introduction, Nature, Concepts and Scope - Organization Framework of The Field Sales Force - Sales force Automation - Types of Field Sales Organizations – Career in Field Sales Management. Field – Emerging trend in Sales Management - Sales Manager – His Tasks and Responsibilities – Relation with Salesman and Relationships with top Management – Coordinating and Controlling the Marketing Mix. Operating Environment for Field Sales Force. Software application in Sales management. Sales Management Process.
II	Information and Planning: Qualities and Role-Hierarchy of Objectives and Goals, Concept of Strategies and Tactics. Development of Sales Performance Standards – Relationship of Performance Standards to Sales Development Function, its Purpose and Types, Review of Training and Staffing Programmes.
III	Sales Forecasting – Methods and Procedural Steps in Forecasting - Sales Budgeting - Allocation of Field Sales Resources. Design Sales Territories, Procedure for Designing – Determining Manpower Requirements, Recruiting, Methods and The Selection System. Sales Quotas, Types of Sales Quotas, its Purpose and Managerial Evaluation. Man Power Planning – Tasks, Skill, Qualification.
IV	Staffing – Responsibilities, tools and Methods of Selection. Motivational and Compensation Procedures for Sales Force – Method of Financial Incentives and its Purpose – Designing A Compensation Plan. Evaluation of Performance and Control. Salesmanship – Sales Positions – Theories of Selling – Understanding Consumer Behavior- Training and Development of Sales force. Sales Training Process, Designing Training Content- Training for Different sales personnel, Training Feedback- Sales Audit and Analysis – Control of Sales Efforts and Costs.
V	Distribution: Role of Distribution in the Marketing Mix Distribution center network, suppliers milk run, supply tracking, network configuration, quality control monitoring; Role and Functions. Transport and Handling: Economics of Transportation, Determining Optimum Mode of Transport. Organization, Machines, Procedures and Documentation- Policies; Role of Transport; Transport in emergencies; safety and security of goods- Dealer Network: Role of Middlemen/Dealer in Marketing and Distribution- Channel Information System- Designing a Channel information system. Dealer Functions at Wholesale and Retail Level – National and International Channel of Distribution- Strategic Plan of Network – Location, Selection - Appointment and Termination of Dealers - Morale and Motivation. .


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✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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Syllabus Revision

Semester : III (Marketing Elective)
Course Code/Name: Brand Management

Branch: Management

Unit	Existing	Changes
I	Introduction Concept of Brand, Significance of Branding for Consumers and for Firms, Branding Challenges & Opportunities, Concept of Brand Equity, Cost based, Price based and Customer based Brand Equity.	Introduction: Definition of Brand - Importance of Brands – Branding Challenges and Opportunities – Brand Equity Concept – Brand Equity Models – Kepler Brand Identity Model - Brands vs. Products Constituents of a Brand: Brand Elements – Brand Identity - Image and Personality – Brand DNA, Kernel, Codes and Promises – Point of Distribution and Point of Purchase
II	Brand Strategies Strategic Brand Management process – Building a strong brand – Brand positioning – Establishing Brand values – Brand vision – Brand Elements – Branding for Global Markets – Competing with foreign brands	Brand Positioning: Basic Concepts – Risks – Brands and Consumers – Competitive Advantage through Strategic Positioning of Brands – Points of Parity – Points of Difference – Brand Building: Designing Marketing Programmes to Build Brands – Role of Social Media in Brand Building – Managing and Sustaining Brands Long-Term.
III	Planning and Implementing Brand Marketing Programs Choosing brand elements to build brand equity, Options and tactics for Brand, New perspectives on marketing, Integrating marketing communication to build brand equity, Conceptualizing the leveraging process, Co-branding, Celebrity Endorsements	Brand Image: Image Dimensions, Brand Associations & Image, Brand Identity; Perspectives, Levels and Prisms. Managing Brand Image – Stages – Functional, Symbolic and Experiential Brands – Brand Audits – Brand Loyalty – Cult Brands
IV	Measuring and Interpreting Brand Performance The brand value chain, Designing brand tracking studies, Capturing customer mind set through quantitative research techniques	Brand Valuation: Methods of Valuation – Implications for Buying & Selling Brands. Leveraging Brands: Brand Extension – Brand Licensing – Co-branding – Brand Architecture and Portfolio Management
V	Growing and Sustaining Brand Equity Brand architecture, Brand hierarchy, Designing brand strategy, New products, Brand extensions- advantage and disadvantage, Reinforcing brands,	Branding in Practice: Handling Name Changes and Brand Transfer – Brand Revitalisation and Rejuvenation – Global Branding Strategies – Building and Managing Brands Across Boundaries –



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	Revitalizing brands, Brand failures.	Branding Industrial Products, Services and Retailers – Building Brands Online – Indianisation of Foreign Brands and Taking Indian Brands Global.
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PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

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✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Semester : III (Marketing Elective)

Board: Management

Course Code/Name: Customer Relations Management

Unit	Existing	Changes
I	INTRODUCTION Definitions - Concepts and Context of relationship Management – Evolution - Transactional Vs Relationship Approach – CRM as a strategic marketing tool – CRM significance to the stakeholders.	Evolution of Customer Relationship: CRM-Definition, Emergence of CRM Practice, Factors responsible for CRM growth, CRM process, framework of CRM, Benefits of CRM, Types of CRM, Scope of CRM, Customer Profitability, Features Trends in CRM, CRM and Cost Benefit Analysis, CRM and Relationship Marketing.
II	UNDERSTANDING CUSTOMERS Customer information Database – Customer Profile Analysis - Customer perception, Expectations analysis – Customer behavior in relationship perspectives; individual and group customer's - Customer life time value – Selection of Profitable customer segments.	CRM Concepts: Customer Value, Customer Expectation, Customer Satisfaction, Customer Centricity, Customer Acquisition, Customer Retention, Customer Loyalty, Customer Lifetime Value. Customer Experience Management, Customer Profitability, Enterprise Marketing Management, Customer Satisfaction Measurements, Web based Customer Support.
III	CRM STRUCTURES Elements of CRM – CRM Process – Strategies for Customer acquisition – Retention and Prevention of defection – Models of CRM – CRM road map for business applications	Planning for CRM: Steps in Planning-Building Customer Centricity, Setting CRM Objectives, Defining Data Requirements, Planning Desired Outputs, Relevant issues while planning the Outputs, Elements of CRM plan, CRM Strategy: The Strategy Development Process, Customer Strategy Grid.
IV	Mechanics of CRM Strategic CRM planning process – Implementation issues – CRM Tools- Analytical CRM Operational CRM – Call center management – Role of CRM Managers - e CRM Solutions – Data Warehousing – Data mining for CRM – an introduction to CRM software packages	CRM and Marketing Strategy: CRM Marketing Initiatives, Sales Force Automation, Campaign Management, Call Centers. Practice of CRM: CRM in Consumer Markets, CRM in Services Sector, CRM in Mass Markets, CRM in Manufacturing Sector

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V	Managing Networks for CRM Business Networks, Network Position, Supplier Networks, Distribution Networks, Management of Networks, Supplier Relationships, Product Development, Supplier Accreditation Programmes, Process Alignment, E Procurement, Partners in Value Creation, Benchmarking Partners, Customer Advocacy Groups, Sponsors, Partners in Value Delivery.	CRM Planning and Implementation: Issues and Problems in implementing CRM, Information Technology tools in CRM, Challenges of CRM Implementation. CRM Implementation Roadmap, Road Map (RM) Performance: Measuring CRM performance, CRM Metrics.
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PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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	Intellectual Property Rights		


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Syllabus Revision

Semester : III (Marketing Elective)

Board: Management

Course Code/Name: Retail Marketing

Unit	Existing	Changes
I	INTRODUCTION An overview Retailing – Channels of Distribution, Functions of Retailers, Evolution of Retailing – Global Retail Scenario – Indian Retail Scenario – Emerging Trends and Opportunities in Retail Industry - economic and technological Influences on retail management – Classification of Retailers – Non Traditional Retail Classifications.	Retailing – Definition, scope and importance in the globalized era, organized and unorganized retailing, emerging trends in retailing – e-tailing, mega shopping malls, the modern retail store. Major types of Retail Organizations, corporate chains, voluntary chains, retail cooperatives, franchise organizations and merchandizing conglomerates / retail store types / retail classification of stores, restaurants and service providing offices.
II	RETAIL FORMATS Organized and unorganized formats – Different organized retail formats – Characteristics of each format – Emerging trends in retail formats – MNC's role in organized retail formats.	The Retail Store - Retail stores management / Roles and responsibilities of retail store managers / Human resource management – recruiting, hiring, training and development, performance management, payroll, work place scheduling / Store business operations – materials management, coordination with purchase department / finance and accounts / Problem solving / Safety and security. Store Essentials – Classification of grocery items / Store Essentials – Location / Store designs / Display accessories / Store atmospherics / Developing own brands / The power of mega retailers over manufacturers / Dimension attributes and its components that affect retail outlet selection.
III	RETAIL ADMINISTRATION Choice of retail locations - internal and external atmospherics – Positioning of retail shops – Building retail store Image - Retail service quality management – Retail Supply Chain Management –	Visual merchandizing components – merchandize as focal point, choice of colours, display themes, display to complement store strategy, spotless cleanliness, frequent change of displays and essentials of good display, lighting / special display kinds – window, marquee, freestanding or island, counter, brand corner, end cap cascade or waterfall displays / Store Exterior



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	Retail Pricing Decisions. Merchandising and category management – Human Resources Management – Information System - Buying.	– façade, details, texture. Store Aids – Gadgets that aid retailing – barcode readers, credit card swipe machines, money counters, counterfeit detectors, cash register, coin counter, bill strapping machine, money vacuum sealing machine. Graphics and Signage / Props / POP's / Planogram.
	RETAIL SHOP MANAGEMENT. Visual merchandise management – space management – Retail Inventory management – Retail accounting & audits – Retail store brands – retail advertising & promotion – Retail management Information system – online retail – role of communication in retailing – methods of retail communication.	Retail strategies – Supply chain management – managing material, information and financial flows / critical success factors / drivers, elements and goals / basic retail strategies – low price high turnover, discounted prices across all categories, lifestyle goods value price / exclusive goods premium price strategy / retail formatting / retail mix / building customer loyalty / customer relationship management. Retail Consumer Behavior – Difference between consumer and shopper / Frugal, impulsive, compulsive and tightwad buyers / Sub classification of shopping orientation / Catering to service consumers – gaps model for improving retail service quality / retail research.
V	RETAIL SHOPPER BEHAVIOUR Understanding of Retail shopper behavior – Shopper Profile Analysis – Shopping Decision Process - Factors influencing retail shopper behavior – Complaints Management - Retail sales force Management – Challenges in Retailing in India	Retail Strategies for Global Growth – Building sustainable global competitive advantage, adapting to local customs and culture, adopting global culture and practices / Different entry strategies – direct investment, joint venture, forming strategic alliances and franchising. Online shopping – different formats, retail convergence.

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COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
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Syllabus Revision: New Course

Semester : III (Marketing Elective)

Board: Management

Course Code/Name: Rural Marketing

Unit	Existing	Changes
I	Introduction of Rural marketing – Evolution of Rural Marketing in Indian and Global Context- Definition- Nature, Evolution, Scope-Characteristics and potential of Rural Marketing - Importance of Rural Marketing- Factors affecting Rural Marketing- Rural Vs Urban Marketing- Structure of Rural Marketing – Recent Trends in Rural Marketing.	Rural Marketing– Definitions, myths and realities of rural marketing, potential of the Indian rural market, the rate of growth and market share of rural market for consumer and non durable goods. Needs, Wants and Demands of the Rural Customer. Values and satisfaction that spell satisfaction for the rural customer. The Rural Marketing Environment – Rural demography – the percentage of youth and their influence on family buying. Economic capacity and potential of rural market. Lack of technological support and infrastructure. Political environment and Rural Culture and its influence on rural marketing.
II	Rural Marketing Mix: Product Decisions, Pricing Decisions, Promotion Decisions, Distribution, Channel Management, Relationship Management Physical Distribution, Sales force management	Rural Consumer Behavior – Cultural and sub cultural influences of different regions and within regions. Caste and social divisions and their influence. Influence of city educated youth, city bred daughter/son in law, village heads on rural buying. Occupation, lifestyle, influence of men over women and other determinants in rural marketing choice. Rural Marketing Segmentation – Geographic / Climatic / Water resources based / Nearness to town based / Industrialization based / Access by road or railway based / Demographic based – Population concentration, Socio Economic Classification, Income based.

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III	Rural Marketing research- Consumer Behaviour-segmentation of rural market -New product development - Product life cycle and Rural Marketing Strategies	Product – Specifically designed to suit rural environment / Products that work without electricity on batteries /Colours to choose rural choice (bright and colourful and not subtle and somber) Smaller packages that are less priced / Value based but not cheap products that hurt rural sensitivities. Pricing – Pre conceived notions do not help / Pricing related to Crop Harvest Times / Special Occasion Pricing / Pricing relating to rural Festivities and Fairs(Thiruviza), Easy Payment terms
IV	Product / Service Classification in Rural Marketing - Brand Management in Rural Marketing- Fostering Creativity& Innovation in Rural Marketing- - Sales force Management in Rural Marketing.	Place of Sale – Lack of outlets, transportation and warehousing, cost / service dilemma / the village shop that sells all from groceries to sanitary, cement, consumer durables and so on. The power of the delivery cum sales van. Other non conventional delivery mechanisms such as sales through computer based kiosks, self help groups, retired army personnel. Promotion – Logos, symbols and mnemonics to suit rural understanding. Picture based brands /Packaging should carry pictures for easy identification (Detol Sword / Nirma dancing girl) Selecting Proper Media Mix – TV / Radio / Cinema / Outdoor / Audio visual units / Publicity vans or bullock carts / Contacted Audio visual vans / Group demonstrations / Puppet Shows / Harikathas / Music CD's / Word of Mouth Promotions / Interpersonal Rural Specific Media through touch, feel and talk modes ofcommunication.
V	Retail & IT models in Rural Marketing-CSR and Marketing Ethics in Rural Marketing- Consumer Education & Consumer Methods in Promotion of Rural Marketing- Advertisement & Media Role in Rural Marketing Promotion Methods. e- Rural Marketing-CRM &e-CRM in Rural Marketing-Advanced Practices in Rural Marketing- Social Marketing- Network Marketing- Green	Rural Sales Force Management – Importance of Hiring Salesmen willing to work in Rural Environment / Possess rural culture and congruence / Attitude suited to Rural Culture / Knowledge of local language, culture and habits / Ability and willingness to several products at a time. Corporate and Government Efforts and Innovations – Mckinsey Study / Hansa Research / National Council of Agricultural and Economic Research / FICCI and Ernst and Young Studies / DCM Hariyali Kisan Bazar / ITC Choupal Sagar / Godrej

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Marketing	Agrovet (GAVL), HUL's - Fair and Lovely, Lipton / Project Shakti / Hindustan Petroleum's Rasoi Ghars or community kitchens to popularize and sell LPG cylinders (cooking gas).
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PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

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Syllabus Revision

Semester : III (Marketing Elective)

Branch: Management

Course Code/Name: International Marketing

Unit	Existing	Changes
I	INTRODUCTION Nature and scope of International Marketing, Key issues in International Marketing.- Business Practices and Ethics, Cultural, Political, and Legal Environment, Minimizing Environmental Risk.	International Marketing Environment: Factors/Dimensions influencing International Marketing – Controllable and Uncontrollable factors in International Marketing.
II	Policy Framework And Procedural Aspects Balance of Payment - India's Export – Import policy – Exim Policy – promotional measures - Export oriented Units – Deemed Exports - Export- Import Documentation – Kinds of Documents – Principal Export Documents – Auxiliary documents – Documents in Import Trade – Export Documentation and procedures - Demand Estimation – GDP – Producer consumer target – Market segmentation.	Product Policy – International Product Life Cycle – Export Pricing. International Marketing Decision: Marketing Decision – Market Selection Decision – Market Entry Decision – Marketing Mix Decision. International Marketing Research: Marketing Information System – Market Research – Marketing Research – Methodology for Marketing Research – International Research Strategy – Desk Research and Filed Research – Market Oriented Information – International Marketing Intelligence – Competitive Intelligence.
III	Planning For International Marketing Marketing Research ,Marketing Information Sources, Marketing Information System, Market Analysis Foreign Market Entry Strategies – Exporting, Licensing, Joint Ventures, Strategic Alliances, Acquisitions Franchising, Assembly Operations , Management Contracts, Turnkey Operations, Free Trade Zones	International Sales Contract: Major Laws – INCO Terms – Standard clauses of International sales Contract – Role of Indian Council of Arbitration / International Chamber of Commerce in solving Trade disputes. International Trade Liberalization: General Agreement on Tariff and Trade (GATT) – World Trade Organization (WTO) – GATS – UNCTAD – Trade Blocks: Customs Union – EU – Intra – African Trade: Preferential Trade Area (PTA) – European Free Trade Area (EFTA) – Central American Common Market (CACM) – Latin American Free Trade Association (LAFTA) – North American Free Trade Agreement (NAFTA)



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		<p>– Association of South East Asian Nations (ASEAN) – CARICOM – GSTP – GSP – SAPTA – Indian Ocean RIM initiative – BIM ST – EC – World Bank, IMF, International Finance Corporation – Multinational Investment Guarantee Agency (MIGA). World Trade in Services – Counter Trade – World Commodity Markets and Commodity Agreements.</p>
<p>IV</p>	<p>International Marketing Decisions Developing an International Product Line, Foreign Product Diversification, International Branding Decisions, International Packaging, International Warranties and Services. International Pricing Strategy - International Promotion Strategies- Promotion Mix- International Sales Negotiations - Patterns of Global Advertising, Global Advertising Regulations, Advertising Media, International Channels of Distribution- Retailing in International Scenario, International Physical Distribution - Technological Influences in international Marketing-Current trends in international Marketing.</p>	<p>India's Foreign Trade: Recent Trends in India's Foreign Trade – India's Commercial Relations and Trade Agreements with other countries – Institutional Infrastructure for Export Promotion in India – Export Assistance – Export Finance – Export Processing Zones (EPZs) – Special Economic Zones (SEZs) – Exports by Air, Post and Sea – Small Scale Industries (SSI) and Exports – Role of ECGC - Role of EXIM Bank of India – Role of Commodity Boards – Role of State Trading Agencies in Foreign Trade – STC, MMTC, etc. Export Regulations: Procedure for export of goods – Quality control and Pre-shipment Inspection – Excise Clearance – Customs Clearance – Port Formalities – Exchange Regulations for Export – Role of Clearing and Forwarding Agents. Procedure for Executing an Export Order – Export and Import Documentation - Export Packing – Containerisation – World Shipping – Liners and Tramps – Dry ports- Project Exports – Joint Ventures - Marine Insurance and Overseas Marketing - Export Payment – Different Modes of Payment and Letters of Credit.</p>

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V	Implementing Global Marketing Strategies Negotiation with customers and selection method, E-Marketing channels organization & controlling of the global marketing programme	World Trade and India: - Globalisation and Role of Multinational Enterprises (MNEs) - Overview of Export – Import Policy of India – Basic Objectives, Role and Functions of Export Promotion Councils.
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PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course


Semester: Semester : III (Marketing Elective)

Board: Management

Course Code/Name: Advanced Selling and Negotiation Skills

Unit	Content
I	Concepts of Selling and Sales Organization: Sales Management - Evolution of sales function - Objectives of sales management positions - Functions of Sales executives - Relation with other executives. Sales Organization and Relationship: - Purpose of sales organization - Types of sales organization structures - Sales department external relations - Distributive network relations.
II	Theories of personal selling and selling strategies: Theories of personal selling - Types of Sales executives - Qualities of sales executives - Prospecting, pre-approach and post-approach - Organizing display, showroom & exhibition -Sales Presentations.
III	Negotiation strategies and Stages: Negotiation strategies – Distributive Negotiations- Integrative Negotiations - Conflict and Dispute Resolution - Reasons for negotiations breakdowns - Legal aspects in Sales & Negotiation - Negotiation stages - The Preparation Stage - Preparing a range of objectives - Constants and variables - Researching the other party - The Discussion Stage - Rapport building - Opening the negotiation - Questioning techniques - Listening skills - Controlling emotions - Art of persuasion and emotions – ethics in sales.
IV	Negotiating Intelligence, Bargaining & Closing: Negotiating Intelligence - Influencing and assertiveness skills - Spotting the signs - non-verbal communication and voice clues - The Proposing Stage - Stating your opening position - Responding to offers – Adjournments - Administering Contracts and Role of Negotiations - The Bargaining and Closing Stage - Making concessions - Closing techniques - Confirming agreement.
V	Sales force Administration & Management: Sales Analysis - Sales quotas - sales budget - sales territory allocation - sales audit - Sales Force Management - Recruitment and Selection - Sales Training - Sales Compensation -Contemporary Issues.


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COURSES FOCUS ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: Semester : III (Marketing Elective)

Board: Management

Course Code/Name: Marketing Analytics

Unit	Content
I	Marketing Analytics Framework: Introduction to Marketing Analytics and Models. Market Insight - Market Data Source – treatment of outliers, Market sizing, PESTLE Market analysis, Porter Five Force Analysis Market segment identification, targeting and positioning - Tools and Techniques: Regression, Cluster Analysis, and Perceptual Mapping Techniques.
II	Business Strategy and Operations: Analytics based strategy selection with strategic models - Strategic Scenarios, Strategic Decision Models, and Strategic Metrics. Business Operations: Forecasting - Predictive Analytics - Data Mining - Balanced Scorecard - Critical Success Factors.
III	Product and Price Analytics: Product analytics: Conjoint Analysis model - Decision Tree Model - Portfolio Resource Allocation - Product/ service Metrics, Attribute Preference testing. Price Analytics: Pricing Techniques - Pricing Assessment - Profitable pricing - Pricing for Business Markets - Price Discrimination.
IV	Distribution and Promotions Analytics: Distribution Analytics: Distribution Channel Characteristics - Retail Location selection, Channel Evaluation and Selection - Multi-channel Distribution. Promotion Analytics: Promotion Budget estimation - Promotion Budget Allocation – Ad value equivalence model - Promotion Metrics for traditional Media - Promotion Metrics for social media.
V	Sales Analytics: E commerce sales model, sales metrics, profitability metrics and support metrics - Rapid decision models - data driven presentations - contemporary issues and opportunities in application of marketing analytics in different sectors.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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Syllabus Revision- New Course

Semester: Semester : III (Marketing Elective)

Board: Management

Course Code/Name: New Product Strategies

Unit	Content
I	Basics of New Product Strategy: New Product Strategy-decisions- consumer behavior adoption and diffusion of innovations; characteristics, purpose, risk in new products; PLC.
II	Idea Generation and Development: Generation of new product ideas and identifying new market opportunities, New Product Planning Process-stage gate system and its application.
III	The Product offer: Selecting Market opportunity and Designing new market offers-Concept Generation and Evaluation, Developing and Testing Physical offers.
IV	New Product Brand Development and Pricing Strategies: Importance of Brand decisions and Brand identity development; Pricing of a new product, Pre-test Marketing.
V	New Product Launch: Entry Strategies - Pre-launch, during launch and Post launch preparations.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

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Syllabus Revision- New Course

Semester : III (HRM Elective)

Board: Management

Course Code/Name: Human Resource Development

Unit	Content
I	Introduction: Definition, Scope and objectives - Evolution of HRD - Developmental Perspective of HRD - HRD at macro and micro levels: Outcomes of HRD in the National and Organizational contexts. Qualities and Competencies required in a HRD professional: Importance of HRD in the Present Context. Development of HRD Movement in India. Difference between HRM and HRD Organisation of HRD Function.
II	Human Resource Development System: HRD Mechanisms – Climate and Culture – Influences of Employee Behaviour – Model of Employee Behaviour – External and Internal Factors Influencing Employee Behaviour. Learning and HRD: Learning Principles – Maximizing Learning – Individual Differences in the Learning Process – Learning Strategies and Styles – Recent Developments in Instructional and Cognitive Psychology.
III	Developing Human Capacity: Aptitude - Knowledge - Values - Skills of Human Relations - Responsiveness - Loyalty and Commitment - Transparency - Leadership Development. Evaluating HRD: Human Resource Accounting - HR Audit and Benchmarking - Impact Assessment of HRD initiatives on the bottom-line of an organization.
IV	Training and Development: Meaning and Scope of training - education and development; Training need analysis - Types of training Internal and external – On -job Training & Job shadowing, SGTA- Outbound Training - Attitudinal training - Principles Involved in Selection of Training Method – Techniques of Training Different Levels - Training effectiveness.
V	Career Planning and Development: Definition - objectives – importance – career development –Career path defining- principles of theories career planning – steps involved – succession planning. Recent Trends in HRD: Training for trainers and HRD professionals – Goal-directed work system behavior- Dynamics of HR & Employee Engagement- Sustainable Human Development- Promoting Research in HRD.

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Syllabus Revision

Semester : III (HRM Elective)

Branch: Management

Course Code/Name: Performance Management

Unit	Existing	Changes
I	Introduction, Role of performance in organization, Dimensions of Performance, Relevance of objectives in organizations, Organizational & individual performance, Performance management & human resources management, Performance Management Process – Performance Management & Performance Appraisal.	Introduction: Performance Management Definition – History, Dimensions of – Role in Organizations – Characteristics of an ideal Performance Management Systems – Challenges of a Poorly Implemented Performance Management System.
II	Performance planning, Performance analysis, KPAs, Components of Performance planning, Objectives of performance analysis, Process of Performance analysis - Implementation process, Factors affecting implementation - Pitfalls in implementation - Experiences in performance management - Traditional practices, Recent approaches - Balance Scorecard approach to PMS - Benchmarking process.	Performance Management Process: Defining Performance – Determinants of Performance – Approaches to Measuring Performance – Performance in Performance Management – Process of Performance Management – Performance Management and Human Resource Management.
III	Purpose of Performance Appraisal, Who can Appraise, Performance appraisal factors, Pros & Cons of Appraising, Appraisal Methods on the basis of approaches – Ranking–Forced Distribution–Paired Comparison–Check List– Critical Incident–Graphic Rating Scale– BARS–MBO–Human Resource Accounting - 360 degree Feedback– Definition & Uses of 360 degree feedback– Rationale for 360 degree feedback—Scope of application in various industries – Advantage and disadvantage of 360 degree feedback	Performance Planning: Ongoing support and coaching Theories of Goal-setting – Setting Performance Criteria – Components of Performance Planning - Objectives of Performance Analysis – Performance standards; BIS, ISO 9001/27001/14001/18001- Crisis Management- Performance Analysis Process.
IV	Significance of review, Process of performance review, Performance rating, Rating Errors, Reducing raters bias, Performance review discussions, Objectives, Requisites, Process, Role of mentoring, Coaching in performance review discussions	Performing Review and Discussion: Performing Review and Discussion: Significance of Performance Review in Performance Management – Process of Performance Review. Performance Ratings: Factors affecting Appraisals – Methods and Errors – Reducing Rater Biases. Performance Review Discussions:



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		Objectives – Process – Role of Mentoring and Coaching in Performance Review.
V	Essentials of Good Performance Management System - Appraisals & HR Decisions, Reward systems & legal issues in PMS, Managing team performance – Role of Technology in Performance Management - Concept of Potential Appraisal – Requirements for an Effective Potential Appraisal system - Performance Appraisal and Potential Appraisal.	Managing Team Performance: Managing Team Performance: Types of teams and Implications for Performance Management – Purpose and Challenge of Team Performance Management – Rewarding Team Performance Implementing Performance Management System: Factors affecting Implementation – Pitfalls of Implementation – Traditional Practices in the Industry.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: Semester : III (HRM Elective)

Board: Management

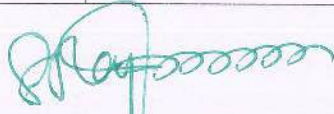
Course Code/Name: Organizational Development

Unit	Content
I	Introduction: Introduction- evolution- basic values and assumptions- foundations of OD- Process of OD - managing the phases of OD- Organizational diagnosis – OD Techniques - Questionnaire, interview, work task force- collecting, analyzing- feedback of diagnostic information.
II	Approaches: Key Organizational Designs – Procedures-Differentiation & Integration - Basic Design – Dimensions Determination of Structure-Forces Reshaping Organization – Life Cycles in Organization.
III	Organizational culture: Key Role of Organizational Culture - Functions & Effects of Organizational Culture - Leaders role in shaping and reinforcing culture, Developing a Global Organizational Culture.
IV	Groups & teams: Work Groups & Teams - Preparing for the world of work Group Behavior - Emerging issues of Work Organization and Quality of Work Life – Career stage model – Moving up the career ladder.
V	Wellbeing: Stress and Well Being at Work: Four approaches to stress - Sources of stress at work, consequences of stress - Prevalent Stress Management - Managerial implications.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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Syllabus Revision- New Course

Semester: Semester : III (HRM Elective)

Board: Management

Course Code/Name: Industrial and Labour Relations

Unit	Content
I	Industrial Harmony and Conflict: Harmonious relations in industry- importance and means; cause of industrial disputes- Machinery for settling of disputes- Negotiation- Conciliation- Mediation- Arbitration and Adjudication- Strikes- Lock-outs- Lay-off and Retrenchment- Code of Discipline- Grievance procedure- Labour management co- operation; Worker's participation in management.
II	Labour Relations: Changing concept of management labour relations- Statute laws- Tripartite conventions- development of the idea of social justice- limitation of management prerogatives increasing labour responsibility in productivity. Joint Consultation: Principal types- Attitude of trade unions and management- Joint consultation in India.
III	Trade Unions: Trade Unions and their growth- economic- social and political conditions leading to the development of trade unionism- Theories of trade unionism- Aim and objectives of trade unions- Structure and governing of trade unions. Problems and Role of Indian Trade Unions: Recognition and leadership- Finances and Membership- Compulsory versus free membership- Political activities- Welfare- Legislation- Majority and Minority unions- Social responsibilities- positive role in economic and social development.
IV	Collective Bargaining: Meaning- Scope- Subject matter and parties- Methods and tactics- Administrations of collective bargaining agreements- Charter of Demands & Counter Demands- Fair and unfair labour practice. Tripartite Machinery: At the center and in the states- I.L.O. – Its functions and role in labour movement – Industrial health and safety- Industrial legislations.
V	

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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Syllabus Revision- New Course

Semester: Semester : III (HRM Elective)

Board: Management

Course Code/Name: Career Management

Unit	Content
I	Introduction to Career Management: Meaning and overview of career, career planning, career development and career management – Differences between Career Management, Career Development and Career Planning. Objectives and importance of career management.
II	Self-Assessment and Career Management: Self-Assessment and Career Management - Understanding the new career - Changing landscape of careers, Protean career, Career and identity, Understanding lifestyle and personal vision. Managing your career: Skills assessment and peer coaching.
III	Contemporary Issues in Career Management: Contemporary issues in Career Management - Developing Career and Work-life implications- Work, gender and dual career couples. Lifespan career development, Career Anchors, Fast track Careers Vs Slow track careers, Mid Life career blues. Career challenges and solutions for working families.
IV	Career Management System in Organization: Career Management from Organizational Point of View - Career Planning Vs Succession Planning, Process of Career planning and career development. Career management strategies. Career Management Systems. Career guidance and counseling. Managers Role in Career Management. Career Road Maps.
V	Role of Learning in Career Growth: Learning and Development for Career & Organizational growth; Strategies of getting organizations into learning mode; Expanding your Horizons. Learning Culture - Learning Management Systems.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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Syllabus Revision- New Course

Semester: Semester : III (HRM Elective)

Board: Management

Course Code/Name: HR Analytics

Unit	Content
I	Introduction to human resource analytics: Understanding HR indicators, metrics and data, HR Analytics Process, Frameworks for HR Analytics: LAMP Framework, HCM 21 Framework. Application of analytical techniques to evaluate human capital impact on business.
II	Statistics for HRM: Statistical analysis for HR, Toolkits, Compensation KPIs, Power interest stakeholder matrix, Data models, Creating dash boards, analyzing and reporting.
III	Best Practices in HR analytics: Staffing, supply and demand forecasting, Total compensation analyses, Performance Analytics, Attrition Analytics, Learning and Development Analytics, Diversity Analytics, Employee engagement analytics - Employee satisfaction analytics.
IV	Measuring HR contribution: Developing HR Scorecard, Developing HR Analytics Unit: Analytics Culture, Analytics for decision making, Analytics for Human Capital in the Value Chain- Balance Score card – ROI –Predictive Analytics.
V	HR regulations and reporting requirements: HR Policies, Procedures and guidelines, Key regulations and reporting requirements, connecting missions or goals to HR Benchmarks and metrics, Reporting & Advising - the 4 rules of reporting HR analytics - importance of data visualization.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: III (Elective HRM)

Board: Management

Course Code/Name: Learning and Development

Unit	Content
I	Introduction: Learning & Development Foundation: The Design & Dynamics of Learning- Contemporary Skills for Efficient Facilitation- Contemporary Frameworks & Tools to Evaluate L&D Programs- Leadership & Management Development-Organizational Design & Development-Learning Vs Training, Training Cycle, Experiential Learning Cycles-Creating Learning ecosystems.
II	Learning and Development Strategy: Objectives and learning outcomes- Sequencing learning content-Training & Learning Methods-Monitoring, Assessing and Evaluation-Building a Culture of Learning- Learning Strategy- Setting Up the Learning Landscape-Mapping organizational learning maturity, Setting up learning programs and strengthening the informal learning landscape; Skill Gap Analysis-Learning Key Techniques.
III	Delivery: Delivery Styles, L&D activities, Physical Environment – Tools & Techniques, digital learning content, Delivery and Evaluations; Role of Learning and Development Practitioners-Issues, Design Thinking; Ethics in Learning and Development.
IV	Coaching Strategy: Introduction to Coaching -Evidence-Based Coaching- Coaching Process- Models- Benefits; Mentoring Process- Models- Benefits; Social Media and Collaborative Learning; Learning & Development In Organisations: Strategy, Evidence And Practice.
V	Learning Engagement, Evaluation and Learning Analytics: Learner Engagement, Factors affecting Learning, Psychology and Neuroscience of Learning-Strategies for learning enhancement and engagement. Learning Evaluation theory and thinking -process and practice-Evaluation Methods, Approaches, Tools- Analyzing and reporting recommendations. Learning Analytics: Collecting Learning Data -Implementing Learning Analytics.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
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✓	Gender Sensitization		Human Values
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Syllabus Revision- New Course

Semester: III (Elective HRM)

Board: Management

Course Code/Name: Organizational Change

Unit	Content
I	Organizational Change: Meaning, Nature, Forces for change- change agents- Change process-Types and forms of change- Models of change- Resistance to change – individual factors – organizational factors – techniques to overcome change- Change programs –job redesign.
II	Management of Change: Diagnosing the organization, determining the desired future state, Implementation Action, Evaluating the Action, Institutional Action Research. Effective Ways of Managing Change: Evolutionary and Revolutionary change in organization: Continuous versus discontinuous changes, Uni-directional and cyclic changes.
III	Change Agents: Change Agents: Skills – External and Internal Change Agents - Resistance to change- Managing the resistance to change - Levin's change model.
IV	OD Intervention: Human process interventions-Individual, group and inter-group human relations- structure and technological interventions- strategic interventions – sensitivity training – survey feedback, process consultation – team building – inter-group development.
V	HR Management Interventions: Performance management, employee development, Workforce diversity and wellness. Strategic interventions - Mergers and acquisitions - Organizational Culture Change - Team Intervention, third-party peace-making, Structural Intervention, Comprehensive OD Interventions.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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Syllabus Revision

Semester: III (Elective HRM)

Board: Management

Course Code/Name: Talent Management

Exp. No	Existing	Changes
I	Introduction to Talent Management: Overview, History, Scope and Need of Talent Management, Source of Talent Management, Tools for Managing Talent Role of HR in Talent Management, Role of the HR Manager, Talent Management Process	Introduction to Talent Management: Definition, Meaning of Talent Management, Objectives & Role of Talent Management in building the sustainable competitive advantage to a firm, Key Processes of Talent Management, Benefits of Talent Management, Talent vs. knowledge people, Source of Talent, Consequences of failure in managing talent , Tools for Managing Talent. Building blocks of talent management: competencies – performance management, conducting performance reviews, Appraising executive talent, selecting the right appraisal.
II	Building Blocks for Talent Management: E, Talent Management System , Effective Talent Management System, Building Blocks of Effective Talent Management System, Critical Success Factors to Create Talent Management System, Key Elements of Talent Management System.	Talent Planning – Understanding the needs and mind set of employees, Succession management process, Integrating succession planning and career planning, designing succession planning program, talent development budget, contingency plan for talent; building a reservoir of talent, compensation management within the context of talent management.
III	Approaches to Talent Management: Developing a Talent Management Strategy, Mapping Business Strategies and Talent Management Strategies Talent Management and Organisational Environment - Shaping Talent Planning and Developing Values, Promoting Ethical Behaviour	Talent Acquisition and Retention – Talent Acquisition- Defining Talent Acquisition, Develop high potential employees, High performance workforce, Importance of Talent Development Process, Steps in developing talent. Talent Retention: SMR Model (Satisfy, Motivate and Reward), Employee Retention Programs, Career Planning and Development, Best practices in employee retention.



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IV	<p>Talent Planning, Acquisition, Engagement and Retention: Talent Planning, Objectives of Talent Planning, Steps in Strategic Talent Planning, Talent Acquisition, Recruiting Process, Talent Engagement and Retention, Employee Engagement and Retention, Improving Employee Retention</p>	<p>Competency Mapping: Concepts and definition of competency; types of competencies, Features of competency, approaches to mapping methods, Competency mapping procedures and steps , 5- level competency model, Developing competency models from raw data- data recording, analyzing the data, content analysis of verbal expression, validating the competency models, how competencies relate to career development and organizational goals.</p>
V	<p>Compensation and reward strategies for Effective Talent Management: Sustainable Talent Management and Reward Model, Strategic Compensation plan for Talent Engagement, Talent Management and Corporate Restructuring; Corporate Reconstruction, Timing the Corporate Reconstruction, Organisational Issues and Talent Management Challenges</p>	<p>Methodology of Competency Mapping: Competency models people capability maturity model, developing competency framework, competency profiling, competency mapping tools, use of psychological testing in competency mapping , competency-based interviewing, assessment of competencies through 360 degree feedback, BEI, CIT, validation of competencies.</p>

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development		Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: III (Elective HRM)

Board: Management


Course Code/Name: Stress Management


Unit	Content
I	Introduction to Stress Management: Introduction to stress: Meaning, Definition, Eustress, Distress, Stressor-emotional, intellectual, environmental, occupational/educational performance, social, physical, and spiritual stressors- Types of stress: Acute stress, Episodic Acute stress and chronic stress, Sources of stress, signs and Symptoms,
II	Impact of Stress: Physiological Impact of stress, Psychological Impact of stress, Social Impact of stress, Types of intervention, The General Adaptation Syndrome - Fight or flight response, Stress warning signal
III	Stress Reduction Techniques: Challenging Stressful Thinking, Problem Solving and Time Management, Psychological and Spiritual Relaxation Methods, Physical Methods of Stress Reduction, Preparing for the Future: College and Occupational Stress
IV	Coping Strategies: Coping Mechanisms: Appraisal focused, Emotional focused and Problem focused - Stress problem solving Sequence - ABCDE problem solving Model
V	Developing Resilience to Stress: Understanding stress level, Role of Personality Pattern, Self Esteem, Locus of Control, Role of Thoughts Beliefs and Emotions, Life Situation Intrapersonal: Assertiveness, Time Management

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
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Syllabus Revision

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Supply Chain Management

Exp.No	Existing	Changes
I	The concept of Supply Chain Management - The Supply Chain Revolution - Extended organization - Integrative Management – Responsiveness – Financial Sophistication – Globalization - Digital Business Transformation	Introduction to Supply Chain: Historical perspective Understanding Supply Chain key issues in supply chain management Objectives, importance, Decision phases - Examples of supply chains Supply chain strategies, The supply chain becomes value chain Supply chain as a competitive weapon
II	II Building Blocks of a Supply Chain Network – Performance Measures – Decisions in the Supply Chain World – Models for Supply Chain Decision-making – Economic Order Quantity Model – Reorder Point Model	Supply chain synergies: Collaborate with supply chain partners Supply Chain Drivers and Design Drivers of supply chain performance: Framework for structuring Facilities, including warehouse, Inventory, Transportation, Information, Sourcing, and Pricing – Yield management /Revenue management
III	Supply Chain Process - Supply Chain Planning – Supply Chain Facilities Layout – Capacity Planning – Inventory Optimization – Dynamic Routing and Scheduling	Sales and Operations Planning: Demand management Demand forecasting, Aggregate Planning and Managing Supply, Demand and Inventory Aggregate Planning in a Supply Chain: role, aggregate planning problems, strategies, role of IT, Implementation Responding to predictable variability in supply chain – Types of supply chains-creating responsive supply chains lean and agile supply chain their characteristics.
IV	procurement – E-Logistics – Internet Auctions – E-Markets - E commerce advantages and disadvantages for SCM – EDI – Exchanges, hubs and marketplaces – ERP.	Leadership and Control: Customer value and supply chain management: Dimensions of customer value-value added services – customer value measures Push-pull boundary –mass customization and supply chain management outsource - Third and Fourth - Party Logistics providers – managing risk in supply chains Creating a sustainable supply chain.
V	Evolution of world class supply chains - Global Supply Chain Integration- Supply Chain Security-International Sourcing	Supply chain analytics: Use of computer software in supply chain problems -Electronic commerce – emerging mega trends supply chain of the future –seeking structural flexibility–The multi-channel revolution 2020 vision.

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PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development		Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Principles and Practice of Logistics Management

Unit	Content
I	Concepts of Logistics – Evolution – Nature and Importance – Components of Logistics Management – Competitive Advantages of Logistics – Functions of Logistics management – principles – Logistics Network – Integrated Logistics system.
II	Elements of Logistics and Inventory carrying – Ware housing – Material handling – Order processing – Transportation – Demand Forecasting – Impact of Forecasts on Logistics and Performance measurements.
III	Transportation – participants in Transportation Decisions – Modes of Transportation – Factors influencing Transport economics – documents in Transport Decision Making Warehousing / Distribution – Functions of Warehouse – benefits of Warehouse – Service – Warehousing Alternatives – Warehouse site selection – Factors while initiating Warehouse Operations – Warehouse Management System.
IV	Packing and Materials Handling – Functions of packaging – Communication – Packaging cost – Types of Packaging Material – Unitization – Containerization – Designing a package factors affecting choice of packaging materials.
V	Organization for effective logistics performance – centralized and decentralized structures – stages of functional aggregation in organization, financial issues in logistics performance – Measures – Steps in ABC costing – Financial Gap Analysis integrated Logistics – Need for Integration - Activity Centers in Integrated Logistics Role of 3PL and 4PL – Principles of LIS.

PERCENTAGE OF SYLLAUS REVISED: 100

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Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Inventory & Warehousing Management

Unit	Content
I	Introduction to Inventory – Definition, principles, role, functions and importance of Inventory, Types of Inventory, Inventory Policy, Costs Associated with Inventory, Inventory and Profitability, Impact of Inventory on total logical cost – Inventory management – objectives / importance, symptoms of poor inventory management, Improving effectiveness of inventory management.
II	Inventory Control and models – Importance and scope of Inventory control, Selective Inventory control, Inventory Models – Economic Lot size, EOQ, Economic Batch Quantity [EBQ], ROL – reorder level, P model, Q model, two bin system, fair share allocation model, MRP, ABC analysis, Just in Time (JIT). Modern methods Kanban, DRP and ERP.
III	Inventory Methods – Inventory ranking methods and Quadrant technique, FIFO. LIFO, Weighted average method, Inventory under certainly and uncertainly, Risk Management, Work in progress inventories, Finished Goods Inventories, Spare parts inventories, Use of Computers in Inventory Management – RFID, EDI, Satellite tracking system.
IV	Warehouse Management – Definition, Principles, Roles, Importance of Warehouses, Need for Warehousing, Warehouse selection and planning, functions and operations of a warehouse, Warehouse location, Area of Warehouse, Factors affecting warehousing cost, Warehouse layout, Design principles.
V	Planning – codification and standardization of the Materials, Incoming Materials Receipts, Retrieval and Transaction Processing System, Security and Loss Prevention, Consumption Based Planning – MRP and lot sizing procedure, Forecasting parameter and result, planned order planning file consolidation, Break bulk, Cross docking, Mixing, Assembly – competitive advantage, production support warehouse – ERP, Role of IT in warehousing.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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BOS

Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Domestic and International Logistics

Unit	Content
I	Vehicle Selection – Types of Vehicles – Types of Operations – Load types and characteristics – main types of vehicle body – Implications of vehicle selection – vehicle acquisition.
II	Need for planning – fleet management – main types of road freight transport – transport resource requirements – vehicle routing and scheduling issues – data requirements – computer routing and scheduling – information system applications – GPS – RFID.
III	Legislation – Operator licensing – Driver licensing – Driver’s Hours regulations – Road transport directive – tachographs – vehicle dimensions.
IV	Introduction to Air Cargo; Aviation and airline terminology – IATA areas – Country – Currency – Airlines – Aircraft layout – different types of aircraft – aircraft manufacturers – ULD – International Air Routes – Airports – codes – Consortium – Hub and spoke – Process Flow.
V	Air freight forwarding; Air Freight Exports and Imports – Special Cargoes – Consolidation – Documentation – Air way Bill (AWB) – Communications – Handling COD Shipments – POD – conditions of contract – Dangerous (DGR) or Hazardous goods.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

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✓	Gender Sensitization		Human Values
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BOS

Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Purchasing Management Logistics legal framework and
Maritime documents

Unit	Content
I	Indian Contract Act, 1872 -Contract-Meaning-Essential Elements -Offer and Acceptance- Consideration-Capacity-Consent-Legality of object-Quasi contract- Discharge of Contract-Breach of Contract- Remedies. Contract of Indemnity and Guarantee - Bailment: Rights and Duties of Bailor and Bailee-Contract of Agency: - Creation of Agency- Rights and Duties of Agent and Principal-Termination of Agency
II	Lawson Carriage of Goods: The Bills of Lading Act 1855 And The Carriage Of Goods By Sea Act 1924 -Non-Contractual Actions- Functions Of The Bill Of Lading Contracts Of Carriage - Modifications To The Traditional Carriage Contract Model-Third-Party Rights Under The Initial Carriage Contract Act Common Law And In Equity - Statutory Transfers.
III	The Cargo Claim Enquiry- Duties, Rights and Liabilities of Common Carriers under:(i) The Carriers Act,186. (ii)The Railways Act,1989,(iii)The Carriage By Road Act, 2007 (iv) The Carriage by Air Act, 1972- Indian Consumer Protection Act, 1986: Objects - Rights of Consumers - Consumer Dispute-Procedure of Filing Complaint-Procedure for redressal of Complaints.
IV	Maritime Logistics: Concept, objectives, Importance and relevance to global marketing and Supply chain management- Coastal and Ocean transportation- World Sea-borne Transport- Global Sea Routes and the trade volume- Characteristics of shipping transport. Types of Ships- Container, Roll-on/roll-off (ro-ro) vessels, General cargo ships, Bulk carriers, Tankers, etc.- Busiest Sea routes: East-West and North-South and Intra Region International Maritime Organization (IMO): Formation and functions-Regulations concerning dangerous and polluting cargoes, including the class structure.
V	Chartering Principles and Practices - Types of Charters- Voyage, Time and Bare Boat charters- Freight Determination and Determinants- Conference System Vs Competitive System- Freight structure and practice - Rate Dynamics- Multi-modal Transport system- Technological Developments in ocean transportation: Size, Tracking, Speed and Security.


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COURSES FOCUS ON:

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K. S. Jay
DEAN

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Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.

S. R. Jayaraman
HOD

Department of Commerce
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Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Export & Import Management

Unit	Content
I	Export & Import – Introduction, Definitions. Evolution of Export & Import. Foreign Trade Institutional Framework and Basics. Multinational Organizations & Structure, International Business Scenario.
II	Export-Import—Documentation and Steps, Export–Import Strategies and Practice, Export Marketing, Business Risk Management and Coverage, Export Incentive Schemes.
III	Logistics and Characteristics of Modes of Transportation, Characteristics of Shipping Industry, World Shipping, Containerization and Leasing Practices.
IV	Export Procedures and Documents, Customs Clearance of Import and Export Cargo, Methods and Instruments of Payment and Pricing Inco terms, Methods of Financing Exporters.
V	Information Technology and International Business, Export & Import with European continent, Africa, Middle East Countries, ASEAN Countries, Australia and New Zealand, China and Japan.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
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Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Strategic Logistics Management

Unit	Content
I	Strategy: Introduction - Strategic planning and strategic management: Levels of strategic planning - Process of strategic planning - dimensions of strategic decisions - Strategic management process
II	Environmental analysis: environmental scanning - Industry analysis - Competitive analysis -Internal analysis: Resource Based view, SWOT / PEST / ETOP analysis, Value Analysis- Strategy formulation/ alternatives: Corporate strategies: grand strategies- stability, expansion, retrenchment and combination
III	Business level strategies: - acquiring core competencies – Porter’s Generic Strategies Model – Functional level strategies: Production and Operations – Finance – HR – Marketing and R & D Strategies
IV	Strategic analysis and choice: Portfolio Analysis-BCG Growth-Share Matrix, GE Business Screen, Shell’s Directional Policy Matrix, Hofer’s Product – Market Matrix Strategic implementation: Steps- structural issues- behavioral issues- strategic leadership
V	Strategic evaluation and control: Balanced Score Card approach –EVA and MVA - ERP– Stake holder analysis – Systems thinking approach, Strategic control - operational control - process and Techniques.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
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Science & Technology (PRIST)
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Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Distribution Management

Unit	Content
I	Introduction to Distribution Distribution – Definition – Need for physical distribution – functions of distribution – marketing forces affecting distribution. The distribution concept – System perspective. Physical distribution trends in India. Transportation: Scope – principles of transportation function – relationship of transportation to other business functions.
II	Planning & Decision Making: Steps in Planning Process – Scope and Limitations – Short Term and Long Term Planning – Flexibility in Planning – Characteristics of a Sound Plan – Management By Objectives (MBO). Strategic Management Process Decision Making Process and Techniques. Business Models
III	Nature of Organizing: Organization Structure and Design - Authority Relationships – Delegation of Authority and Decentralization – Interdepartmental Coordinator – emerging Trends in corporate Structure, Strategy and Culture – Impact of Technology on Organizational design – Mechanistic vs. Adoptive Structures – Formal and Informal Organization. Span of control – Pros and Cons of Narrow and Wide Spans of Control –Optimum Span - Managing Change and Innovation.
IV	Leadership and Control: Leadership: Approaches to Leadership and Communication. Control: Concept of Control – Application of the Process of Control at Different Levels of Management (top, middle and first line). Performance Standards – Measurements of Performance – Remedial Action - An Integrated Control system in an Organization – Management by Exception (MBE)
V	Business Ethics: Importance of Business Ethics – Ethical Issues and Dilemmas in Business - Ethical Decision Making and Ethical Leadership – Ethics Audit - Business Ethics and - CSR Models.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

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Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Multi-Modal Transportation

Unit	Content
I	Multi Modal Transportation: Multi modal transportation - Introduction, growth and components, Physical multi modal operations – Inter relationship of transport mode, Modal interfaces - Function of infrastructure in various modes - Ports, airports, inland depots, railheads - Intermodal systems – road/rail/ sea - sea/ air - road/ air - road / rail.
II	Multimodal Trade Routes: Multimodal trade routes – factors affecting Mode and Route choices, Multimodal transport operators – Types of Vessel Operators –Other provisions through Transport services.
III	Corporate Structures In Multimodal: Corporate structures in Multimodal Transport, Pricing aspects in transport modes - price measurements –relationship between price and demand - importance of revenue and cash flow - pricing strategies - Calculation of through transport pricing - Multimodal carrier service contracts - Modern Freight Tariffs, Tracking the Container Fleet.
IV	International conventions: pertaining to multimodal transport - Hague Rules – Hague V is by Rules - Hamburg Rules - Rotterdam Rules - CMR - CIM - TIR - Warsaw Convention - Montreal convention -Regulations regarding Carriage of Dangerous Goods by various modes
V	Marketing of Multimodal Transport: Indian Multimodal Act-1993, Conventions related to Multi modal transport-Cargo liability conventions, Conventions relating to Dangerous Goods-Customs conventions-Statutory Regulations and Restrictions- National and International restrictions on the movement of goods-WTO. Measurement of quality of services - Importance of Quality management systems (ISO 9000) - Application of Total Quality Management (TQM) - Benchmarking.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

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Syllabus Revision- New Course

Semester: III (Elective Logistics and Supply Chain)

Board: Management

Course Code/Name: Logistics Infrastructure

Unit	Content
I	Infrastructure: Salient Features - Importance - Types - Commercialization of Infrastructure - Infrastructure and Environment - Infrastructure and the poor-Policy framework -Indian Scenario - Phases of project development - Slow progress.
II	Technology Infrastructure : Internet and World Wide Web, internet protocols-FTP, intranet and extranet, Cloud Service Models – SAAS, PAAS, IAAS, Cloud Deployment Models – Public Cloud, Private Cloud, Hybrid Cloud, Auto-Scaling in the Cloud, Internet information publishing technology-basics of webserver hardware and software.
III	Transportation Selection – Tradeoff – modes of transportation – models for transportation and distribution – factors affecting network effectiveness– 3PLadvantages – Indian transport infrastructure – IT solutions–EDI, e-Commerce, e-Procurement – Bar Coding and RFID technology
IV	Storehouse Operations and Control: Introduction, Objectives, Storehouse Operations and its Objectives, Daily Activities of Stores, Organizing a Store, Store Location and Layout, Selecting appropriate storage system, Centralisation, Decentralisation and variety reduction of stores, Store Housekeeping, Stores Accounting
V	Infrastructure and Layout Of Container Terminals: Infrastructure and layout of container terminals - Berth and quay characteristics- Apron width, quay crane rails - Container yard size, layout and markings Container Freight Station (CFS) -Gates, offices, maintenance facilities, fencing and traffic control. Types and purpose of equipment used in container terminals - Ship to shore handling equipment – Yard equipment for transfer, storage and delivery - CFS and other terminal equipment, Terminal automation.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

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Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Health Policy and Health Care System

Unit	Content
I	Determinants of Health; Life Style – Socio – Economic conditions – Heredity – Environment – Health and Family Welfare Services – Other Factors – Health Scenario of India.
II	Organizations for Health; Voluntary health agencies in India – Indian Red Cross Society – Indian Council for child welfare – Tuberculosis Association of India – RAI – Rockefeller Foundation – Ford Foundation – CARE – International organizations – WHO – UNICEF – UNDP.
III	Health Policy; Meaning – Need – National health policy – features – National health programmers in India – Health planning – Planning under Five Year Plans – Plan Outlays. – National Population Policy.
IV	Health care; concept of health care – Levels; Primary, Secondary, Tertiary – Health for all by 2000 A.D. – Health care system in India – Structure of Government Machinery – Private, Government, Corporate Hospitals.
V	Medical Tourism; Role of Medical Tourism, Methods to attract Foreign Medical; Tourists, Facilities available for foreign patients, Role of travel Agencies, Govt. Policy on Medical Tourism.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Hospital Planning and Administration

Unit	Content
I	Hospital: Classification – Changing role of hospitals – Role of hospital administration – Hospital system – Need for scientific planning and design of hospitals.
II	Planning: Principles of Planning – Planning process – Size of the hospital – Size selection – Location Layout – Hospital architect – Selection of architect – Equipping a hospital – Graphics and design.
III	Technical analysis: assessment the extent need for the hospital services – Demand and need – Factors influencing hospital utilization – Bed planning – Project cost – Land requirements – Space requirements – hospital drawings and documents.
IV	Hospital Design: Building requirement – Entrance and ambulatory zone – diagnostic zone – Intermediate zone – Critical zone – Service zone – Administrative zone.
V	Facilities Planning: Transport – Food Services – Communication – Information System – Minor facilities – others. Standard in Hospital: General Standards – Voluntary and mandatory Standards – Mechanical Standards – Electrical Standards – Standard for centralized medical gas system – Biomedical waste handling.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Science & Technology (PRIST)
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BOS

Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Hospital Records Management


Unit	Content
I	Hospital Records; Meaning – Functions – Importance of medical records to Patients, Doctors, Hospitals, Public Health, Press, LIC, Police – court of Law, Education and Research.
II	Records Management; Registers, Forms; Meaning and importance – Principles of records keeping – Merits and limitations – Principles of records keeping – Merits and limitations – latest trends in record maintenance – Electronic forms of records maintenance
III	Types – Out - patient record, in-patient records, causality, emergency, surgery, obstetrics and gynaecology, paediatrics, investigation and diagnosis.
IV	Records Organization and Management; Classification of records – Bases for Classification – Indexing and filling of records – Problems associated with medical records.
V	Medical Registers; Meaning - Types - Purpose – Advantages – Principles of designing records – Registers in various departments – Common issues. Medical Forms and Reports; Meaning – types and significance – Principles of designing – Statutory registers and reports to be maintained – Specimens.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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BOS

Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Hospital Core Services

Unit	Content
I	Hospital Services: Meaning – Types – Clinical – Non-Clinical – Nursing and Administrative Services, Departments in the Hospital Management.
II	Clinical Services: Part I - Meaning – Importance- Types – Overview of each service. Clinical Services: Part II – Types Anesthesia – Internal medicine- Cardiology – Dermatology – Endocrinology – Gastroenterology – Nephrology – Neurology – Oncology – Orthopedics – Plastic Surgery – General Pediatrics – Urology – Obstetrics and Gynecology – Neonatology – Physiotherapy.
III	Non-Clinical Services: Blood Bank Management, Meaning – Importance – Types – Blood Bank, Non-Clinical Services: Diagnostic Services (Laboratory Services): Clinical bio-chemistry – Clinical pathology – Clinical hematology – Histopathology – Microbiology-Immunology, Non-Clinical Services: Radiology and Imaging Services – Nuclear medicine – Radiotherapy, Non-Clinical Services: Pharmacy – Staff health – Medical staff organization and community health.
IV	Nursing Services: Objectives – Nursing administration – Duty of nursing officers – Nursing and support staff in the ward – Nursing by-laws, rules, policies and procedures – Nursing meetings, Nursing Audit: Determining nursing complement in hospital – Health education.
V	Hospital Administrative Services: Hospital administration – Hospital administrator – Duties of hospital administrator – Teaching – Training services (in-service education, attached medical college or paramedical sciences etc.), Hospital General Services: General and medical purchase – General stores, Hospital Information System: Computer and hospital information system.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Health Policy and Health Care System

Unit	Content
I	Basics of Hospital Support Services: Principles and methods of organizing, clinical and support services for hospitals. Role of supportive services / departments in the hospital management Nursing Care and Ward Management.
II	Laboratories and Rules: Duties and responsibilities – Documentation and records Emergency Services: Ambulance service – First aid measures. Meaning-Importance of various services relate to Emergency Laboratories for Investigation: Laboratory rules – Conduct – Housekeeping.
III	Laundry and Linen Services: Safety in the laboratory – Blood bank management Linen and Laundry: Meaning – Importance – Type of service. Laundry arrangements – Washing materials – Washing arrangements.
IV	General Kitchen Equipment Store: Dietary Services and Hospital Diets: Important and function Equipment – Store – Day store – Visual arrangements General kitchen – Special diet kitchen –Food distribution.
V	Holistic Approach to Health: Occupational Hazards –Physical Hazards, Chemical hazards, Biological hazards, Psycho-social Hazards, Prevention and Control Hazards. Evolution of Health Care delivery system– Changing trends in evolution of health care delivery system.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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THANJAVUR - 613 403.

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BOS

Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Quality Assurance in Health Care

Unit	Content
I	Quality-meaning, concept, importance-Quality terminologies-quality philosophies-Deming's 14 points, Juran & Crosby.
II	Quality planning for service organization-Customer satisfaction-cost of quality, determinants of quality in medical care-norms for medical staff-Medical Audit. Medical Audit Committee.
III	Tools of evaluating quality in medical care-Aspects of medical care that need evaluation-TQM concept- ISO 9000 Series, its implication on hospitals; Quality control techniques-Elective Competence, Bench marking.
IV	Quality Assurance-major functions of Quality Assurance-patient care evaluation-Utilisation review, Continuous medical Education, Continuous Monitoring and Credentialing-Documentation Process-Communication System.
V	Quality improvement-Problem solving-Employee Participation-instruction & measurement-Quality Circle-Quality Recognition-Quality Awards.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Operations Management in health care

Unit	Content
I	Operations Management in Healthcare: Key functions of Healthcare Operations Management - Goals for the operations manager in the Healthcare Facilities - Trends in Operations Management - The Challenge and the Opportunity -History of Performance Improvement- Evidence-Based Medicine and Pay-for-Performance. Healthcare Operations and Systems Management
II	Planning and Scheduling: Basic principles of forecasting- Forecasting patient demand and volumes-Capacity planning: Aligning capacity with demand, Scheduling and Capacity Management. Process Improvement and Patient Flow
III	The planning process: Analyze operations and environment -Implement, measure and revise. Tools for Problem Solving and Decision Making, Using Data and Statistical Tools for Operations Improvement, Quality Management: Focus on Six Sigma, The Lean Enterprise-Simulation
IV	Operational Metrics: Financial distress in healthcare. Operational Metrics, Benchmarking, and Analysis- Productivity and Operational Planning- Purchasing and Inventory Management
V	Implications of Supply Chain: Define supply chains- Flows in supply chain- Supply chain strategy for hospitals- Forecasting and Supply Chain Management- Implications for Operations and Logistics Management -

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Health care Governance and Technology

Unit	Content
I	Code of Medical Ethics: Code - Duties of Physician to their patients - Duties of Physician to the profession at large - duties of Physician to the profession in consultation - Duties of Physician to the profession to the public - Disciplinary action - NAB
II	Medico Legal Aspects – The Medical Termination of Pregnancy Act 1971: Indication or Grounds of MTP - Requirements for MTP - Complications of MTP - doctor and Criminal abortion - The Prenatal Diagnostic Techniques act 1994 Regulation of genetic counselling centre - Regulation of pre -natal diagnostic technique - Death Certificate - Precautions while issuing death certificate - contents of Death Certificate - Importance of Death certificate- Tamil Nadu clinics Act
III	Medical Jurisprudence: Introduction & Legal Procedure - Medico legal aspects of death injuries - General aspects - Medical ethics - consumer Protection Act
IV	Legal Framework – Introduction to Legal framework - Patent's rights & provider's responsibility - Medical Malpractice
V	Healthcare Technology Evolution of cyber medicine, the future of healthcare industry. Healthcare information systems. Global perspective on health informatics business.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
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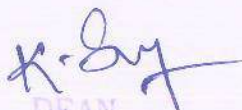
Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Total Quality Management in Hospital

Unit	Content
I	TQM & Six-Sigma: TQM Definition – Principles of TQM – Implementing TQM Concepts in Hospital Departments – Six Sigma – Features – Benefits and Goals of Six Sigma – Scope of Six Sigma in Hospital – Pareto Analysis– Root Cause Analysis – Quality Improvement Teams.
II	Process Approach to Quality Management in Hospitals: Process – Process Management – Triple Role of Process Team – PDCA Cycle – Preparation of process flow diagrams for distinct processes in a hospital – Quality Aspects of processes in Hospitals Diagnostic services – Nursing services – House Keeping – Blood Bank – Pharmacy – OPD – Surgery – ICU – Emergency and Trauma care – Canteen – Hospital Stores.
III	Quality Assurance Methods: Definition – Principles of Quality Assurance – Quality Policy – Quality Manual – Hospital Sop's – 5'S Techniques – Specification limits – Process Control limits – Process capability analysis tools – Product Testing – Prototype Testing – Failure Testing – Process Mapping – Process Mapping Tools – Quality Audit – Business Process Reengineering – Essence of Re-engineering.
IV	Quality Certification Systems: Introduction – International Standards ISO 9000 – 9004 – Elements of ISO 9000 – Areas of ISO 9000 – Family of ISO9000 – ISO 14001 – Environment Management Systems – ISO 14000 Family – Stages of Environmental Management Standards – Evaluation and Compliance.
V	Quality Accreditation in Hospitals: Accreditation System – Process – Procedure – Joint Commission International (JCI) – Mission –Benefits – Value – Accreditation in 15 Areas – JCI for primary care centers – JCI Accredited Hospitals in India – Basic Objectives of National Accreditation Board for Hospitals (NABH) – Standards of NABH – Documentation Procedure – Patent Rights and Education – Benefits of NABH to Hospital – Employees – Patents and TPA's


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COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
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✓	Gender Sensitization		Human Values
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403
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Syllabus Revision- New Course

Semester: III (Elective Hospital Management)

Board: Management

Course Code/Name: Health care accreditation and Law

Unit	Content
I	Evolution of Quality Management: Definition, origin & growth of Quality Management, Need & Benefits for quality management in healthcare, Quality Management Programme, ISO clauses, quality manual, quality of clinical services, Critical Pathways, Medical Audits, Performance review – Assessment / Methods, Quality Management of diagnostic facilities, Assessment of Client satisfaction-Importance and Significance of TQM for Hospitals; Prerequisites of Quality Management in Hospitals; Role of Medical Record in Quality Management; Quality Circles; Quality Assurance.
II	Benchmarking of Quality Standard: Hospital Accreditation: Concept of Hospital Accreditation; ISO 2000 & 14000, Role of Quality Council of India (QCI), NABL, NABH, JCI, BIS, ACHS Accreditation- Implementation strategies for Quality Programmes- Top Management Commitment, Organizing Implementation, Action Plan, Group Meeting, Training, documentation, internal audit, application for certificate, final audit, Leadership issues. Selection of pilot projects, Quality initiatives in Indian Health Care Organization.
III	Laws Relating to Healthcare Formation: Promotion-Forming society-The Companies Act-Law of Partnership-A Sample Constitution for the Hospital-The Tamil Nadu Clinics Act – Medical Ethics –Formation of a Health care Organization under Partnerships and Corporate basis (private and public); Public Private Partnerships in health care; National Medical Council; Physician Patient relationship; Duties towards patients by medical and Para-medical staff; Medical ethics & Oaths; Code of conduct.
IV	Healthcare Services and Law: Contractual obligations in Hospital Services- Requisites of a valid contract; Contractual liability and damages; Criminal liability and defenses available to hospitals and medical staff; tortuous and vicarious liability; Legal remedies available to patients, Hospital as a bailee; CP Act, RTI-Central Births and Deaths Registration Act, 1969- Recent amendments – Medical Termination of Pregnancy Act, 1971 – Infant Milk Substitutes, Feeding Bottles and Infant Food Act, 1992.
V	Laws Pertaining to Hospitals: Transplantation of Human Organs Act, 1994 – Pre-natal Diagnostic Techniques (Regulation and Prevention of Misuse) Act, 1994 – Medical Negligence – Medico Legal Case – Dying Declaration-MCI act on medical education. The Biomedical Waste (Management and Handling) Rules- Radiation Safety System.

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**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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Board of studies

Minutes of Meetings

Department of Commerce

Date: 26.06.2023



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MEMBERS IN THE SIXTEENTH BOARD OF STUDIES MEETING



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MEMBERS IN THE SIXTEENTH BOARD OF STUDIES MEETING

Board: Commerce

Date: 26.06.2023

Time: 11.30 AM

Venue: PSB Block

The following members were present for the Board of Studies meeting

S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Online/ Physical
1.	Dr.S.Rajendran, HOD M.Com., MBA., M.Phil., M.Ed., Ph.D Professor & Head Department of Commerce	<u>Chairman</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
2.	Dr.R.Swaminathan, M.Com., MBA., M.Phil., Ph.D Associate Professor of commerce	<u>External Member</u> Centre for Distance & Online Education Bharathidasan University Thiruchirappalli-34, TN	Physical
3.	CA.S.Venkataraman, M.Com., ACMA., FCA Chartered Accountant	<u>External Member</u> Chartered Accountant No.46, "SUBAILLAM", New Cauvery Nagar, Muntiyandur Colony, Main Road, Nanjikkottai Road, Thanjavur-613001.	Physical
4.	Dr.S.Kamarnju M.Com., M.Phil., Ph.D Department of Commerce	<u>Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical


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5.	Dr.A.Chandrasekaran M.Com., M.Phil., Ph.D Professor Department of Commerce	Professor Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
6.	Dr.G.Karthiga M.Com., M.Phil., Ph.D Department of Commerce	Associate Professor Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
7.	Dr.D.Anand M.Com., MBA., M.Phil., Ph.D Department of Commerce	Associate Professor Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
8.	Mrs.K.Sathya M.Com., M.Phil., B.Ed., (Ph.D) Department of Commerce	Assistant Professor Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
9.	Mrs.B.Amutha Mary Jeney M.Com., MBA., M.Phil., (Ph.D) Department of Commerce	Assistant Professor Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
10.	M. Prabhakaran M.Com, Student	Alumina Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical


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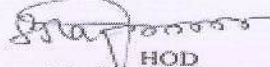


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11.	P.V.Naveen B.Com CA Student	<u>Student Representatives</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
12.	R.Anjali B.Com Student	<u>Student Representatives</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
13.	Dr.K.Arivukkani Ph.D HOD, Assistant Professor Department of Tamil	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
14.	S.Rasakumar MA., M.Phil, Assistant Professor Department of English	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
15.	Ms.M.Aarshi MCA, M.Phil,M.Tech., Assistant Professor Department of Computer Science	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical
16.	Dr.Kirubakaran Ph.D Associate Professor Department of Mathematics	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical


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ATTENDANCE OF THE SIXTEENTH BOARD OF STUDIES MEETING




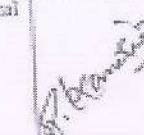
Board: Commerce

Date: 26.06.2023

Time: 11.30 AM

Venue: PSB Block

The following members were present for the Board of Studies meeting:

S.No.	Name/Degree/Designation	Institute/Organisation/ Full address	Online/ Physical	Signature (scan, if online)
1.	Dr.S.Rajendran, HOD M.Com., M.Phil., M.Ed., M.Phil., Ph.D Professor & Head Department of Commerce	<u>Chairman</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	 PRIST Department of Commerce Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Thanjavur, Tamil Nadu - 612005
2.	Dr.R.Somasundaram, M.Com., M.B.A., M.Phil., Ph.D Associate Professor of commerce	<u>External Member</u> Centre for Distance & Online Education Bharathidasan University Thiruchengal-34, TN	Physical	 Dr. R. SAMINATHAN, Ph.D., Associate Professor of Commerce Centre For Distance and Online Education Bharathidasan University Thiruchengal-34, TN Cell: 9842424014, 91211 83274
3.	C.A.S.Venkataraman, M.Com., ACMA, FCA Chartered Accountant	<u>External Member</u> Chartered Accountant No.48, "SUBAILLAM", New Carvery Nagar, Muniyandar Colony, Main Road, Narjikkottai Road, Thanjavur-612001.		
4.	Dr.S.Kamaraju M.Com., M.Phil., Ph.D Department of Commerce	<u>Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	



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5	Dr. A. Chandrasekaran M.Com., M.Phil., Ph.D Professor Department of Commerce	<u>Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	<i>A. Chandrasekaran</i>
6.	Dr. G. Karthiga M.Com., M.Phil., Ph.D Department of Commerce	<u>Associate Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	<i>G. Karthiga 26/6/23</i>
7.	Dr. B. Anand M.Com., MBA., M.Phil., Ph.D Department of Commerce	<u>Associate Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	<i>B. Anand</i>
8.	<u>Mrs. K. Sathya</u> M.Com., M.Phil., B.Ed., (Ph.D) Department of Commerce	<u>Assistant Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	<i>K. Sathya</i>
9.	Mrs. B. Amutha Mary Jency M.Com., MBA., M.Phil., (Ph.D) Department of Commerce	<u>Assistant Professor</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	<i>B. Amutha Mary Jency 26/6/23</i>
10.	M. Prabhakaran M.Com., Student	<u>Alumina</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	<i>M. Prabhakaran</i>



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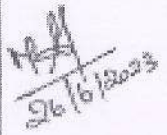
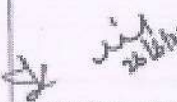
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11	P.V.Naveen B.Com CA Student	<u>Student Representatives</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
12	R.Anjali B.Com Student	<u>Student Representatives</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
13	Dr.K.Arivukkani Ph.D HOD., Assistant Professor Department of Tamil	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
14	S.Hasakumar MA., M.Phil, Assistant Professor Department of English	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
15	Ms.M.Aarthi MCA, M.Phil, M.Tech., Assistant Professor Department of Computer Science	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	
16	Dr.D.R.Kirubakaran Ph.D Assistant Professor Department of Mathematics	<u>Co-opted Member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST) Deemed to be University, Thanjavur	Physical	



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Date: 26.06.2023

Online meeting link:


BOS Chairman/HOD
HOD
Department of Commerce
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR-613 401.

NOTE:

Mandatory Attachments:


1. Minutes of the previous BoS meeting minutes and report on the follow-up action taken.
2. BoS Meeting 'Notification' sent to all members, including online meeting link.
3. Online Screenshots and geo-tagged photos in the venue.
4. Attendance sheet/print of online attendees.
5. Detailed syllabus with PPTs, POCs, COs, etc. (in Annexures), if new Programmes/ introduction / A. curriculum revision is discussed.



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SCHOOL OF COMMERCE AND MANAGEMENT
DEPARTMENT OF COMMERCE
PRIST, PONDICHERRY-605 006 Doc. PRIST/14

TO:
Dr. S. Srinivasan
Associate Professor, Head
VLS & Research Department of Commerce
Government Arts and Science College,
Taramani, Chennai-600 099, Tamil Nadu
E-Mail: s_srinivasan@prist.ac.in
Phone No: 9443944000

Re: Board of Studies Meeting - Resolutions and Proposals to be met - exp.


Respected Sir,

I hope this letter finds you in good health. It is a cordy welcome from the Board of Studies meeting, which has been scheduled to be held on 26.04.2022 at 11:00 am. In the Department of Commerce P&S CLCC, Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Thanjavur.

We would like to thank you for the BSG meeting to give your valuable suggestions on our curriculum and syllabus for the new syllabus.


Kindly acknowledge your acceptance to the report.

Thanking you,

Yours Sincerely,

The Dean
School of Commerce & Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST),
Thanjavur - 613 402.

Copy to:

1. Dean, School of Commerce and Management
2. Dean Academic Affairs
3. Registrar, PRIST
4. File copy


DEAN
School of Commerce and Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR-613 402.



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**SCHOOL OF COMMERCE AND MANAGEMENT
DEPARTMENT OF COMMERCE**

Date: 19.06.2023

Ref: PRIST/COM/ROS/02/2023-24

TO

Ca.S.Venkataraman
Chartered Accountant
No.45, "SUBAILLAM",
New Cauvery Nagar,
Mudiyandis Colony, Main Road,
Nattikkottai Road,
Thanjavur - 613001.
E-Mail: aundaras@rediffmail.com
Phone No: 9443134166

Sub: Board of Studies Meeting - Intention and Requisition to attend- reg.

Respected Sir,

Hope this letter finds you in good health. It is kindly informed that the Board of Studies meeting, which has been scheduled to be held on 26.06.2023 at 11.00 am. in the department of Commerce P53 BLOCK, Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Thanjavur.

We would like to invite you to the BOS meeting to give your valuable suggestion on our curriculum and syllabus for our institution.

Kindly communicate your acceptance in this regard.

Thanking you,

Copy to:

1. Dean School of Commerce and Management
2. Dean Academic Affairs
3. Registrar Office
4. File copy

Yours Sincerely,
A. K. S. A.
DEAN

Dr. A. K. S. A. / 19/06/23
Dean
School of Commerce & Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
U/s 3 of UGC Act, 1956
Thanjavur - 613001

A. K. S. A.
DEAN
School of Commerce and Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.



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Board of Studies Meeting - Intimation and Requisition to attend - reg.

1 attachment

Flag for follow up. Completed on 26/06/2023.

SS saminathan sami <dirssaminathan@gmail.com>
To: DEAN PSB THANJAVUR
Mon 26/06/2023 16:52

Dear Dean,
I am happy to accept and participate in BOS meeting, which will be conducted by your Department.
With regards
R.Saminathan

Thank you for your confirmation.

Thank you for your response.

Wonderful, thank you!

Reply Forward

Board of Studies Meeting - Intimation and Requisition to attend - acceptance - reg.

V venkataraman <auditorsv@rediffmail.com>
To: DEAN PSB THANJAVUR
Tue 27/06/2023 11:01

I AM RECEIPT OF YOUR LETTER AND I ACCEPT THE INVITATION AND I WILL PERSONALLY PRESENT ON 26.06.2023 AT 11.00 AM AT YOUR MEETING VENUE.

THANK YOU.

YOURS

S.Venkataraman, M.Com, FCA, FCMA,
V.Dinesh, B.Com, ACA, ACS,
Chartered Accountants
No.46, New Cauvery Nagar
Near Income tax Office
Nanjikkottai Road
Thanjavur 613 001
Cell: Ca.VDinesh: 9095206380; Ca.S.Venkataraman: 9443134146 Off: 04362-255146
GST Ar. S.Sethuraman: 9442534751 Res: 04362-233146



SCHOOL OF COMMERCE AND MANAGEMENT

DEPARTMENT OF COMMERCE

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)*

Board: Commerce

The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	Commerce
Meeting no	16
Date and Time	26.06.2023 and 11.00 am
Venue	PSB Block
Members Attended	The details are given in the ANNEXURE-I

AGENDA

1.	To confirm the minutes of BOS meeting held on 06.05.2022
2.	Action taken on the previous Meeting Minutes.
3.	Discussion on the development of the B.Com New Curriculum under R 2023
4.	Discussion on the development of the B.Com CA New Curriculum under R 2023
5.	Discussion on the development of the M.Com New Curriculum under R 2023
6.	Discussion on Four years Under Graduate Programme (FYUGP) B.Com Hons & B.Com CA Hons
7.	Discussion on Value added courses
8.	Any other matters Panel of Examiner (UG / PG)



MINUTES OF THE BOARD OF STUDIES MEETING

Board: Commerce

The 16th Board of Studies Meeting of the Department of Commerce, School of Commerce and Management, Ponnaiyah Ramajayam Institute of Science and Technology was conducted as per the guidelines of the University Grants Commission on 26.6.2023 at 11.00 at PSB Block. The following Members were present in the meeting.

Dr.S.Rajendran, Chairman of the Board of Studies Meeting welcomed the Members and in her introducing speech, she explained the details of the Agenda and the academic matters to be discussed. The agenda of the meeting was taken up for discussion. The following points were discussed during the meeting. The resolutions made in the Meeting are given below.

The committee appreciated the formulation of syllabus for B.Com and B.Com CA programme to meet out the criteria of the Education Empowerment and Social Relevance. In Addition, the Committee suggested the following corrections/modifications/ Suggestions in the Programme syllabus

- Programme outcomes (PO) and Programme Specific Outcomes (PSO) to be restructured.
- Course Outcomes (CO) to be restructured for all the Courses.
- Recent reference books to be included in each course.



AGENDA

Agendum 1: To confirm the minutes of BOS meeting held on 06.05.2022

Discussion: The minutes of the Board of Studies meeting held on 06th May, 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.

Resolution: The Board resolved to accept the same.

Agendum 2: Action taken on the previous Meeting Minutes.

Discussion: Action taken report of the decision made in the previous BOS and approved by academic council. Action taken report was presented in the BOS



**School of Commerce and Management
Department of Commerce
Action taken report**

1. Summary of the feedback obtained

S.No	Feedback statement	Stakeholder	Action (Yes/No)
1	More number of industrial visits can be arranged	Alumni	yes
2	Syllabus content need to be reduced. The content is vast for some of the courses.	Students	Yes
3	Satisfied with the content of current syllabus. TALLY Paper can be included in the syllabus.	Employer	yes
4	Industry based curriculum to be added in curriculum and more soft skills are required	Teacher	yes

2. Action to be taken / Action taken on specific feedback

- Faculty Members are advised to take students to industrial visits for their courses.



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Feedback statement: Syllabus content need to be reduced. The content is vast for some of the courses

Feedback Ref.No
SCM/2022-2023/001
SCM/2022-2023/002

Faculty Members are advised to take students to industrial visits for their courses.	
Feedback statement: Syllabus content need to be reduced. The content is vast for some of the courses	Feedback Ref.No
Action Taken	
Will be proposed in curriculum revisions	
Satisfied with the content of current syllabus. TALLY Paper can be included in the syllabus.	Feedback Ref.No SCM/2022-2023/001 SCM/2022-2023/002
Action Taken	
Satisfied with the content of current syllabus. TALLY Paper can be included in the syllabus.	
Feedback statement: Industry based curriculum to be added in curriculum and more soft skills are required	Feedback Ref.No SCM/2022-2023/12 SCM/2022-2023/14
Action Taken	
The course will be recommended during the curriculum.	


DEAN
School of Commerce and Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.

Alumni feedback: Refer to Annexure I for the same.

Employer Feedback: Refer to Annexure 2 for the same.



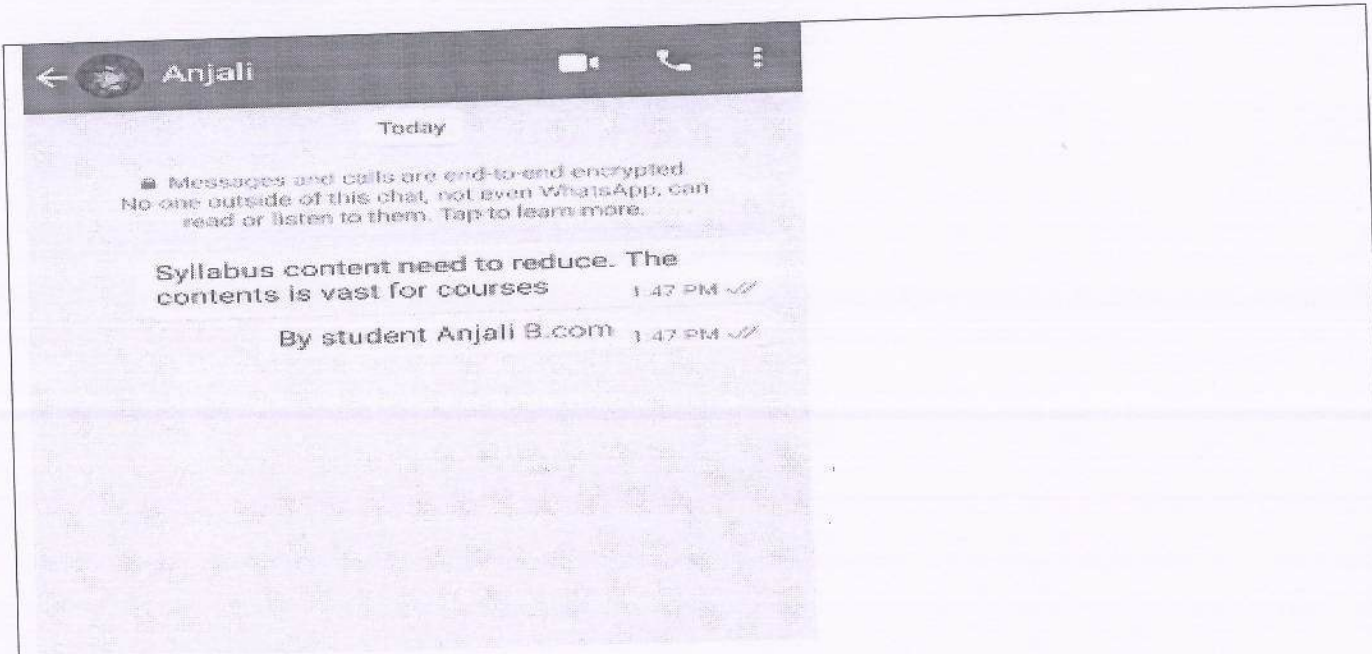
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The screenshot shows an Outlook web interface. The browser address bar displays 'outlook.office.com/mail/...'. The Outlook navigation pane on the left includes 'Favourites' (Drafts: 71, Inbox: 3, Deleted: 42, Sent Items) and 'Folders' (Inbox: 3, Drafts: 79, Sent Items, Deleted: 42, Junk Email, Archive). The main content area shows a list of emails under the 'Focused' tab. The selected email is from RUBHA B, titled 'Alumni Request for Tally syllabus changed', with a timestamp of 13:33. The email body text reads: 'You should include the new syllabus of Tally in GST a...'. Below the email list, a preview of the selected email is shown, including the sender's name 'RUBHA B', the recipient 'To: DEAN PSB THANJAVUR', and the date 'Tue 25-07-2023 13:33'. The email body text is: 'You should include the new syllabus of Tally in GST and Taxation.' Below the text are three buttons: 'Will do, thank!', 'Okay, thank you.', and 'Will do.'. At the bottom of the preview are 'Reply' and 'Forward' buttons. The Windows taskbar at the bottom shows the system tray with the date '1:34 PM' and '7/25/2023', and a 'Total Security (Free)' notification.

Student feedback:



Faculty feedback: Refer to Annexure 3 for the same

Resolution: The Board resolved to accept the same

Discussion: Action taken report of the decisions made in the previous BOS and approved by the academic council. Action taken report was presented in the BOS.

Resolution: The Board resolved to accept the same.

Agendum 3: Discussion on the development of the B.Com New Curriculum under R 2023

Discussion: A draft curriculum for B.Com was proposed with modification to committee and the following points were discussed.

- The members wanted to confirm the total number of credits accounting for 147.
- The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSCHE) requirements and will put forth this to the Academic Council.
- **New Course introduced: UG programme**

- 23161AEC13 - Financial Accounting I
- 23161GEC15 - Business Communication
- 23161AEC23 - Financial Accounting II
- 23161AEC24 - Business Law



- 23161GEC25 - Business Environment
- 23161GEC26 - Insurance and Risk
- 23161AEC33 - Corporate Accounting I
- 23161AEC34 - Company Law
- 23161GEC35- International Trade
- 23161GEC36- Principles of Marketing
- 23161AEC43- Corporate Accounting II
- 23161AEC44- Business Mathematics & Statistics
- 23161GEC45- Business Legislations Laws
- 23161GEC46- Consumerism & Consumer Protection
- 23161AEC52- Banking Law and Practice
- 23161AEC53- Income Tax Law and Practice I
- 23161DSC54- Auditing and Corporate Governance
- 23161DSC55 A- Entrepreneurial Development
- 23161DSC55 B- Direct Taxation
- 23161DSC56A- Human Resource Management
- 23161AEC61- Cost Accounting II
- 23161AEC63- Income Tax Law & Practice II
- 23161DSC64 B- Logistics and Supply Chain Management
- 23161DSC65 A- Basics of MS-Excel
- 23161DSC65 B- Computer Application in Business

• **Skill Enhancement Course**

- 23161SEC17- Managerial Skill Development (NME)
- 23161SEC27- E-Business (NME)
- 23161SEC28- Elements of Insurance
- 23161SEC37- Intellectual Property Rights
- 23161SEC38- Tally. ERP 9
- 23161SEC47- Information Technology Concepts
- 23161SEC48- Salesmanship
- 23161SEC57- Summer Internship/Industrial Training
- 231SECD67- General awareness for Competitive Examinations

• **Ability Enhancement Compulsory course**

- 231AECCCMS - Communication Skills
- 23161RMC39- Research Methodology
- 231AEAECCEVS - Environmental Studies
- 231ECCVED - Value Education

• **Audit Course**



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- 231LSCUV - Universal Human Values
- 231SSCBE - Basic Behavioural Etiquette
- 231ACLSOAN - Office Automation
- 231LCSCLS - Leadership and Management Skills
- 231ACLSPSL - Professional Skills

SEMESTER – I					
Course Code	Course Title	L	T	P	C
THEORY					
23111AEC11/23132AEC11/23135AEC11	Tami – I/Advanced English-I/Hindi-I/ French - I	3	0	0	3
23111AEC12	English-I	3	0	0	3
23161AEC13	Financial Accounting I	4	0	0	4
23161AEC14	Principles of Management	4	0	0	4
23161GEC15	Business Communication	4	0	0	3
23161GEC16	Business Economics	4	0	0	3
Skill Enhancement Course					
23161SEC17	Managerial Skill Development (NME)	2	0	0	2
23161SEC18	Foundation course/Bridge Course	2	0	0	2
Ability Enhancement Compulsory course (AECC1)					
231AECCINC	Indian Constitution	2	0	0	2
231LSCUV	Universal Human Values	-	-	-	1
	Total	28			24
SEMESTER – II					
23110AEC21/23111AEC21/23132AEC21/23135AEC21	Tamil – II/ Advanced English-II/Hindi-II/ French – II	3	0	0	3
23111AEC22	English-II	3	0	0	3
23161AEC23	Financial Accounting II	4	0	0	3
23161AEC24	Business Law	4	0	0	3
23161GEC25	Business Environment	4	0	0	3
23161GEC26	Insurance and Risk	3	0	0	3
Skill Enhancement Course					
23161SEC27	E-Business (NME)	2	0	0	2



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23161SEC28	Elements of Insurance	2	0	0	2
Ability Enhancement Compulsory course (AECC2)					
231AECCCMS	Communication Skills	2	0	0	2
231SSCBE	Basic Behavioural Etiquette	0	0	0	1
	Total	30			24
SEMESTER – III					
23110AEC31/23132A EC31/23111AEC31/2 3135AEC31	Tamil – III/Hindi-III/Advanced English-III/ French – III	3	0	0	3
23111AEC32	English-III	3	0	0	3
23161AEC33	Corporate Accounting I	4	0	0	3
23161AEC34	Company Law	4	0	0	3
23161GEC35	International Trade	3	0	0	2
23161GEC36	Principles of Marketing	3	0	0	2
Skill Enhancement Course					
23161SEC37	Intellectual Property Rights	2	0	0	2
23161SEC38	Tally. ERP 9	2	0	0	2
Ability Enhancement Compulsory course (AECC3)					
23161RMC39	Research Methodology	2	0	0	2
231ACLSOAN	Office Automation	0	0	0	1
	Total	30			22
SEMESTER – IV					
23110AEC41/23111 AEC41/	Tamil-IV/Advanced English-IV /Hindi-IV/ French – IV	3	0	0	3
23111AEC42	English-IV	3	0	0	3
23161AEC43	Corporate Accounting II	4	0	0	3
23161AEC44	Business Mathematics & Statistics	4	0	0	3
23161GEC45	Business Legislations Laws	3	0	0	3
23161GEC46	Consumerism & Consumer Protection	3	0	0	3
Skill Enhancement Course					
23161SEC47	Information Technology Concepts	2	0	0	2
23161SEC48	Salesmanship	2	0	0	2
Ability Enhancement Compulsory course (AECC4)					



- The members of the Board approved the syllabus for "New Courses Introduced in UG B.Com" that was proposed to them. Refer to Annexure I for the same
- The LOCF document was presented to the BOS members. The BOS members confirmed that the syllabus-related matter has been incorporated into the LOCF document. Refer to the LOCF document for the same.
- The syllabus for the course "Indian Knowledge System" was presented and discussed with the BOS members, followed by their approval. Refer to Annexure II for the same.
- The syllabus for the course "Disaster Management" was presented and discussed with the BOS members, followed by their approval. Refer to Annexure IV for the same.
- It was proposed that advanced learners should actively participate in peer teaching and be motivated to participate in more than one online course. Activities like the departmental newsletter, student-organised seminars, and journal club discussion forum should be coordinated by them. It was also recommended to conduct a departmental-level finishing school programme for the graduating batch of students. Board members also opined to encourage students to join individual summer internship programmes in reputed research.

Resolution: The Board resolved to accept the same. New syllabus for B.Com approved. It will be effective from the Academic year 2023-2024.

Agendum 4: Discussion on the development of the B.Com CA New Curriculum under R 2023.

A draft curriculum for B.Com CA was proposed with modification to committee and the following points were discussed.

- The members wanted to confirm the total number of credits accounting for 147.



- The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSCHÉ) requirements and will put forth this to the Academic Council

SEMESTER – I					
Course Code	Course Title	L	T	P	C
THEORY					
	SEMESTER – I				
23111AEC11/ 23132AEC11/ 23135AEC11	Tami – I/Advanced English-I/Hindi-I/ French - I	3	0	0	3
23111AEC1 2	English-I	3	0	0	3
23198AEC13	Financial Accounting I	4	0	0	4
23198AEC14	Principles of Management	4	0	0	4
23198GEC15	Programming in c and lab	4	0	0	3
23198GEC16	Python Programming and lab	4	0	0	3
Skill Enhancement Course					
23161SEC17	Managerial Skill Development (NME)	2	0	0	2
23161SEC18	Foundation course/Bridge Course	2	0	0	2
Ability Enhancement Compulsory course (AECC1)					
231AECCIN C	Indian Constitution	2	0	0	2
231LSCUV	Universal Human Values	-	-	-	1
	Total	28		24	24
SEMESTER – II					
23110AEC2 1/23111AEC 21/23132AE C21/23135A EC21	Tamil – II/ Advanced English-II/Hindi- II/ French – II	3	0	0	3
23111AEC2	English-II	3	0	0	3



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2					
23198AEC23	Financial Accounting II	4	0	0	3
23198AEC24	Business Law	4	0	0	3
23198GEC25	Office Automation and lab	4	0	0	3
23198GEC26	Programming in C++ and lab	3	0	0	3
Skill Enhancement Course					
23161SEC27	E-Business (NME)	2	0	0	2
23161SEC28	Elements of Insurance	2	0	0	2
Ability Enhancement Compulsory course (AECC2)					
231AECCMS	Communication Skills	2	0	0	2
231SSCBE	Basic Behavioural Etiquette	0	0	0	1
	Total	30		24	24
SEMESTER – III					
23110AEC31/ 23132AEC31/ 23111AEC31/ 23135AEC31	Tamil – III/Hindi-III/Advanced English-III/ French – III	3	0	0	3
23111AEC32	English-III	3	0	0	3
23198AEC33	Corporate accounting I	4	0	0	3
23198AEC34	Business Mathematics and statistics	4	0	0	3
23198GEC35	Programming in JAVA and Lab	3	0	0	2
23198GEC36	Web Technology (PHP) and Lab	3	0	0	2
Skill Enhancement Course					
23161SEC37	Intellectual Property Rights	2	0	0	2
23161SEC38	Tally. ERP 9	2	0	0	2
Ability Enhancement Compulsory course (AECC3)					
23161RMC39	Research Methodology	2	0	0	2
231ACLSOAN	Office Automation	0	0	0	1
	Total	30		22	22
SEMESTER – IV					
23110AEC41/2 3111AEC41/	Tamil-IV/Advanced English-IV /Hindi-IV/ French – IV	3	0	0	3
23111AEC42	English-IV	3	0	0	3
23198SEC43	Corporate Accounting II	4	0	0	3
23198SEC44	Company Law	4	0	0	3



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23198GEC45	Relational Database Management system	3	0	0	3
23198GEC46	Introduction to Data Science	3	0	0	3
Skill Enhancement Course					
23161SEC47	Information Technology Concepts	2	0	0	2
23161SEC48	Salesmanship	2	0	0	2
Ability Enhancement Compulsory course (AECC4)					
231AEAECCEVS	Environmental Studies	2	0	0	2
231LCSCLS	Leadership and Management Skills	0	0	0	2
	Total	30		20	27
SEMESTER – V					
23198AEC51	Cost Accounting -I	4	1	0	4
23198AEC52	Banking law and Practice	4	1	0	3
23198AEC53	Income Tax Law and Practice -I	5	0	0	4
23198DSC54	Auditing and Corporate Governance	5	0	0	4
23198DSC55	Financial management (OR) Indirect Taxation	4	0	0	3
23198DSC56	Software Engineering + (UML Lab) (OR) Object oriented Analysis and Design + (UML Lab)	4	0	0	3
Skill Enhancement Course					
23161SEC57	Summer Internship/Industrial Training	-	-	-	2
231ECCVED	Value Education	2	0	0	2
231ACLSPSL	Professional Skills	0	0	0	1
	Total	30		27	27
SEMESTER – VI					
23198AEC61	Cost Accounting -II	6	0	0	4
23198AEC62	Management Accounting	6	0	0	4
23198AEC63	Income Tax Law and Practice -II	6	0	0	4
23198DSC64	Entrepreneurial Development (OR) Human Resource Management	5	0	0	3
23198DSC65	Introduction to Oracle and SQL (theory) (OR) SQL Applications using Oracle (practical)	5	0	0	3
23198PRW66	Project Work	-	-	-	4
Skill Enhancement Course					



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231SECD67	General awareness for Competitive Examinations	2	0	0	2
231EXACT	Extension activity	-	-	-	1
231AC	Indian Knowledge System	0	0	0	2
	Total	30	0	0	24
Total Credits -Programme					141
Total Credits - Audit Courses					06
Total Credits					147

Agendum 5: Discussion on the development of the M.Com New Curriculum under R 2023.

A draft curriculum for M.Com was proposed with modification to committee and the following points were discussed.

- The members wanted to confirm the total number of credits accounting for 91.
- The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSICHE) requirements and will put forth this to the Academic Council.

SEMESTER – I					
Course Code	Course Title	L	T	P	C
THEORY					
	SEMESTER – I				
23261CC I	Core I - Business Finance	5	0	0	4
23261CC II	Core II - Digital Marketing	5	0	0	4
23261CC II	Core III - Banking and Insurance	5	0	0	4
23261GDS I	Elective I A - Security Analysis and Portfolio Management (or) I B - Operations Research	5	0	0	3
23261GDS II	Elective II A - Labour Laws (or) II B - Strategic Human Resource Management	5	0	0	3
23261SEC 1	Principles and Practice of Insurance	3	0	0	2
	Ability Enhancement - Soft Skills – I		0	0	1
23261RLS	Research Led Seminar	2	-	-	1



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	Total	30	0	0	22
SEMESTER – II					
23261CC IV	Core IV - Strategic Cost Management	6	0	0	4
23261CC V	Core V - Corporate Accounting	6	0	0	4
23261CC VI	Core VI - Setting up of Business Entities	6	0	0	4
2326GDS III	Elective III A - Business Ethics and Corporate Sustainability (or) III B - Audit and Due Diligence	4	0	0	3
23261GDS IV	Elective IV A - Rural and Agricultural Marketing (or) IV B - Logistics and Supply Chain Management	4	0	0	3
23261RMC	Research Methodology	3	0	0	2
23261BRC	Participation in Bounded Research	2	0	0	2
23261SEC 2	Principles and Practice of Banking	2	0	0	1
	Ability Enhancement - Soft Skills – II	2	0	0	1
	Internship/Industrial Activity*	-	-	-	-
	Total	33	0	0	23
SEMESTER – III					
23261CC VII	Core VII - Taxation	6	0	0	4
23261CC VIII	Core VIII - Research Methodology	6	0	0	4
23261CC IX	Core IX - Computers in Business	6	0	0	4



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23261GDS V	Elective V A - Strategic Management (or) V B - International Financial Management	4	0	0	3
23261CIM	Core Industry Module	4	0	0	3
23261SRC	Participation in Scaffold Research (Societal Project)	-	-	-	2
23261SEC 3	Term Paper and Seminar Presentation SEC 3	2	0	0	1
	Soft Skills – 3	2	0	0	1
	Internship/Industrial Activity (Credits)	2	0	0	-
Total		32	0	0	22
SEMESTER – IV					
23261CC X	Core X - Corporate and Economic Laws	6	0	0	4
23261CC XI	Core XI - Human Resource Analytics	6	0	0	4
23261CC XII	Core XIII - International Business	6	0	0	3
23261GDS VI	Elective VI A- Organisational Behaviour (or) VI B - Insolvency Law and Practice	4	0	0	3
23261SEC	Professional Competency Skill – SEC	2	0	0	2
	Soft Skills – 4	2	0	0	2
	Extension Activity	-	-	-	1
23261PRW45	Project with Viva	4	0	0	3
23261PEE	Program–Exit Examination	-	-	-	2
Total		30			24



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**SCHOOL OF COMMERCE AND MANAGEMENT
DEPARTMENT OF COMMERCE
B.Com Syllabus Revision**

Board: Commerce

Semester: I

Course Code/Name: Financial Accounting I

Unit	Content
I	Fundamentals of Financial Accounting Financial Accounting – Meaning, Definition, Objectives, Basic Accounting Concepts and Conventions - Journal, Ledger Accounts– Subsidiary Books — Trial Balance - Classification of Errors – Rectification of Errors – Preparation of Suspense Account – Need and Preparation - Bank Reconciliation Statement
II	Final Accounts Final Accounts of Sole Trading Concern- Capital and Revenue Expenditure and Receipts – Preparation of Trading, Profit and Loss Account and Balance Sheet with Adjustments.
III	Depreciation and Bills of Exchange Depreciation - Meaning – Objectives – Accounting Treatments - Types - Straight Line Method – Diminishing Balance method – Conversion method. Annuity Method – Depreciation Fund Method – Insurance Policy Method – Revaluation Method – Depletion Method – Sum of Digits Method – Machine Hour Rate Method. Bills of Exchange – Definition – Specimens – Discounting of Bills – Endorsement of Bill – Collection – Noting – Renewal – Retirement of Bill under rebate – Insolvency of Acceptor – Accommodation
IV	Accounting from Incomplete Records Incomplete Records -Meaning and Features - Limitations - Difference between Incomplete Records and Double Entry System - Methods of Calculation of Profit - Statement of Affairs Method – Preparation of final statements by Conversion method. Average Due Date and Account Current.
V	Royalty and Insurance of Claims Meaning – Minimum Rent – Short Working – Recoupment of Short Working – Lessor and Lessee – Sublease – Accounting Treatment. Insurance Claims –Calculation of Claim Amount-Average clause (Loss of Stock only)


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Science & Technology (PRIST)
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BOS

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. Srinivasan
DEAN
School of Commerce and Management
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Science & Technology (PRIST)
THANJAVUR - 613 403.

HOD
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Science & Technology (PRIST)
THANJAVUR - 613 403.

Srinivasan



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BOS

Syllabus Revision

Board: Commerce

Semester: I

Course Code/Name: PRINCIPLES OF MANAGEMENT

Unit	Content
I	Introduction to Management Meaning- Definitions – Nature and Scope - Levels of Management – Importance - Management Vs. Administration – Management: Science or Art –Evolution of Management Thoughts – F. W. Taylor, Henry Fayol, Peter F. Drucker, Elton Mayo - Functions of Management - Trends and Challenges of Management. Managers – Qualification – Duties & Responsibilities.
II	Planning Planning – Meaning – Definitions – Nature – Scope and Functions – Importance and Elements of Planning – Types – Planning Process - Tools and Techniques of Planning – Management by Objective (MBO). Decision Making: Meaning – Characteristics – Types - Steps in Decision Making – Forecasting.
III	Organizing Meaning - Definitions - Nature and Scope – Characteristics – Importance – Types - Formal and Informal Organization – Organization Chart – Organization Structure: Meaning and Types - Departmentalization– Authority and Responsibility – Centralization and Decentralization – Span of Management.
IV	Staffing Introduction - Concept of Staffing- Staffing Process – Recruitment – Sources of Recruitment – Modern Recruitment Methods - Selection Procedure – Test-Interview– Training: Need - Types– Promotion –Management Games – Performance Appraisal - Meaning and Methods – 360 Performance Appraisal – Work from Home - Managing Work from Home [WFH].
V	Directing Motivation –Meaning - Theories – Communication – Types - Barriers to Communications – Measures to Overcome the Barriers. Leadership – Nature - Types and Theories of Leadership – Styles of Leadership - Qualities of a Good Leader – Successful Women Leaders. Supervision. Co-ordination and Control Co-ordination – Meaning - Techniques of Co-ordination. Control - Characteristics - Importance – Stages in the Control Process - Requisites of Effective Control and Controlling Techniques – Management by Exception [MBE].


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COURSES FOCUS ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. S. S.
DEAN

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S. S. S.



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BOS

Syllabus Revision

Board: Commerce

Semester: I

Course Code/Name: Business Communication

Unit	Content
I	Introduction to Business Communication Definition – Meaning – Importance of Effective Communication – Modern Communication Methods – Barriers to Communication – E-Communication - Business Letters: Need - Functions – Essentials of Effective Business Letters – Layout
II	Trade Enquiries Trade Enquiries – Orders and their Execution – Credit and Status Enquiries – Complaints and Adjustments – Collection Letters – Sales Letters – Circular Letters
III	Banking Correspondence Banking Correspondence – Types – Structure of Banking Correspondence – Elements of a Good Banking Correspondence – Insurance – Meaning and Types – Insurance Correspondence – Difference between Life and General Insurance – Meaning of Fire Insurance – Kinds – Correspondence Relating to Marine Insurance – Agency Correspondence – Introduction – Kinds – Stages of Agent Correspondence – Terms of Agency Correspondence
IV	Secretarial Correspondence Company Secretarial Correspondence – Introduction – Duties of Secretary – Classification of Secretarial Correspondence – Specimen letters – Agenda and Minutes of Report writing – Introduction – Types of Reports – Preparation of Report Writing
V	Application Letters Application Letters – Preparation of Resume – Interview: Meaning – Objectives and Techniques of Various Types of Interviews – Public Speech – Characteristics of a Good Speech

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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BOS

Syllabus Revision

Board: Commerce

Semester: I

Course Code/Name: Indian Economic Development

Unit	Content
I	Economic Development and Growth Concepts of Economic Growth and Development. Measurement of Economic Development: Per Capita Income, Basic Needs, Physical Quality of Life Index, Human Development Index and Gender Empowerment Measure
II	Economic Development Factors affecting Economic Development - Characteristics of Developing Countries- Population and Economic Development- Theories of Demographic Transition. Human Resource Development and Economic Development
III	National Income Meaning, Importance, National Product-Concept, types of measurement, Comparison of National Income at Constant and Current Prices. Sectorial Contribution to National Income. National Income and Economic Welfare
IV	Public Finance Meaning, Importance, Role of Public Finance in Economic Development, Public Revenue-Sources, Direct and Indirect taxes, Impact and Incidence of Taxation, Public Expenditure-Classification and Cannons of Public Expenditure, Public Debt-Need, Sources and Importance, Budget-Importance, Types of Deficits - Revenue, Budgetary, Primary and Fiscal, Deficit Financing
V	Money Supply Theories of Money and Its Supply, Types of Money-Broad, Narrow and High Power, Concepts of M1, M2 and M3. Inflation and Deflation -Types, Causes and Impact, - Price Index- CPI and WPI, Role of Fiscal Policy in Controlling Money supply

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability

K. S. Jay
DEAN

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Semester: I

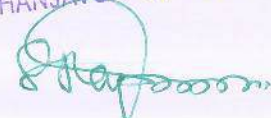
Course Code/Name: Business Economics

Unit	Existing	Changes
I	Definition – Methods of Economics – Meaning of Business Economics – Objectives of Business Economics – Nature of Business Economics – Economics Laws – Micro – Macro Economics.	Introduction to Economics Introduction to Economics – Wealth, Welfare and Scarcity Views on Economics – Positive and Normative Economics - Definition – Scope and Importance of Business Economics - Concepts: Production Possibility frontiers – Opportunity Cost – Accounting Profit and Economic Profit – Incremental and Marginal Concepts – Time and Discounting Principles – Concept of Efficiency- Business Cycle:- Inflation, Depression, Recession, Recovery, Reflation and Deflation.
II	Demand Analysis – Demand Curves – Elasticity of Demand – Indifference Curves.	Demand & Supply Functions Meaning of Demand - Demand Analysis: Demand Determinants, Law of Demand and its Exceptions. Elasticity of Demand: Definition, Types, Measurement and Significance. Demand Forecasting - Factors Governing Demand Forecasting - Methods of Demand Forecasting, Law of Supply and Determinants
III	Production Function – Factors of Production – Laws of Return – Cost of Production – Curve - Scale of Production – Economics of Large Scale Production	Consumer Behaviour Consumer Behaviour – Meaning, Concepts and Features – Law of Diminishing Marginal Utility – Equi-Marginal Utility – Indifference Curve: Meaning, Definition, Assumptions, Significance and Properties – Consumer's Equilibrium. Price, Income and Substitution Effects. Types of Goods: Normal, Inferior and Giffen Goods - Derivation of Individual Demand Curve and Market Demand Curve with the help of Indifference Curve.
IV	Cost Concepts- Different cost - Long and short run cost curves – Relationship between costs – Break even analysis	Theory of Production Concept of Production - Production Functions: Linear and Non – Linear Homogeneous Production Functions - Law of Variable Proportion – Laws of Returns to Scale - Difference between Laws of variable proportion


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		and returns to scale – Economies of Scale – Internal and External Economies – Internal and External Diseconomies - Producer's equilibrium
V	Market Structure – Firm – Equilibrium Firm and Industry – Optimum Firm – Pricing – Pricing Under Perfect Competition – Monopoly – Duopoly – Oligopoly.	Product Pricing Price and Output Determination under Perfect Competition, Short Period and Long Period Price Determination, Objectives of Pricing Policy, its importance, Pricing Methods and Objectives – Price Determination under Monopoly, kinds of Monopoly, Price Discrimination, Determination of Price in Monopoly – Monopolistic Competition – Price Discrimination, Equilibrium of Firm in Monopolistic Competition – Oligopoly – Meaning – features, “Kinked Demand” Curve

PERCENTAGE OF SYLLAUS REVISED: 80
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision

Board: Commerce

Semester: I

Course Code/Name: Introduction to Accountancy

Unit	Content
I	INTRODUCTION TO ACCOUNTANCY: Definition of Accounting – Nature, Objectives and Utility of Accounting in Industrial and Business Enterprise – Difference between Book-keeping and Accounting – Accounting Concepts and Conventions.
II	DOUBLE ENTRY SYSTEM: Double Entry System – Rules – Advantages and Disadvantages – Journal – Subsidiary Books.
III	TRIAL BALANCE: Ledger – Meaning – Balancing of Accounts – Difference between Journal and Ledger – Trial Balance – Objectives – Limitations – Preparation of Trial Balance
IV	ERRORS AND BRS: Rectification of Errors – Objectives – Types – Methods – Bank Reconciliation Statement. (Simple problems only)
V	FINAL ACCOUNTS: Final Accounts of Sole Trader (with Simple Adjustments).

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. S. Jayaram
DEAN

School of Commerce and Management
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BOS

Syllabus Revision

Board: Commerce


Semester: II

Course Code/Name: Financial Accounting II

Unit	Content
I	Hire Purchase and Installment System Hire Purchase System – Accounting Treatment – Calculation of Interest - Default and Repossession - Hire Purchase Trading Account Instalment System - Calculation of Profit
II	Branch and Departmental Accounts Branch – Dependent Branches: Accounting Aspects - Debtors system -Stock and Debtors system – Distinction between Wholesale Profit and Retail Profit – Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses – Inter- Departmental Transfer at Cost or Selling Price.
III	Partnership Accounts - I Partnership Accounts: –Admission of a Partner – Treatment of Goodwill - Calculation of Hidden Goodwill –Retirement of a Partner – Death of a Partner
IV	Partnership Accounts - II Dissolution of Partnership - Methods – Settlement of Accounts Regarding Losses and Assets – Realization account – Treatment of Goodwill – Preparation of Balance Sheet - Insolvency of a Partner – One or more Partners insolvent – All Partners insolvent - Garner Vs Murray – Accounting Treatment - Piecemeal Distribution – Surplus Capital Method – Maximum Loss Method.
V	Accounting Standards for financial reporting Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in India- Requirements of International Accounting Standards - Role of Developing IFRS- IFRS Adoption or Convergence in India- Implementation Plan in India- Ind AS- An Introduction - Difference between Ind AS and IFRS.


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COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. S. J.
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THANJAVUR - 613 403.

S. Rajam



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BOS

Syllabus Revision

Board: Commerce

Semester: II

Course Code/Name: Business Law

Unit	Existing	Changes
I	Nature and Sources of law — Law of contracts — Essentials of valid contract — Classification of contracts	Introduction An introduction – Definition – Objectives of Law - Law: Meaning and its Significance, Mercantile Law: Meaning, Definition, Nature, Objectives, Sources, Problems of Mercantile Law
II	Offer and acceptance — consideration -- capacity to contract — Free consent Legality of object	Elements of Contract Indian Contract Act 1872: Definition of Contract, Essentials of Valid Contract, Classification of Contract, Offer and Acceptance – Consideration – Capacity of Contract – Free Consent - Legality of Object – Contingent Contracts – Void Contract
III	Performance of contracts — Discharge of contract — Remedies for breach of contract — Quasi contracts	Performance Contract Meaning of Performance, Offer to Perform, Devolution of Joint liabilities & Rights, Time and Place of Performance, Reciprocal Promises, Assignment of Contracts - Remedies for Breach of contract - Termination and Discharge of Contract - Quasi Contract
IV	Contracts of agency — Different classes 'of agents — creation of agency — Rights and duties of an agent -- scope of agents authority — Liability of principles to third parties — Personal liability of agent — Bailment and pledge	Contract of Indemnity and Guarantee Contract of Indemnity and Contract of Guarantee - Extent of Surety's Liability, Kinds of Guarantee, Rights of Surety, Discharge of Surety – Bailment and Pledge – Bailment – Concept – Essentials and Kind - Classification of Bailments, Duties and Rights of Bailor and Bailee – Law of Pledge – Meaning – Essentials of Valid Pledge, Pledge and Lien, Rights of Pawner and Pawnee
V	Contract of Indemnity and guarantee — Rights of Indemnity holder — Rights of surety — Nature and extent of surety's	Sale of Goods Act 1930: Definition of Contract of Sale – Formation - Essentials of Contract of Sale - Conditions and Warranties -

K. S. J.

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THANJAVUR - 613 403.

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BOS

liabilities	Transfer of Property – Contracts involving Sea Routes - Sale by Non-owners - Rights and duties of buyer - Rights of an Unpaid Seller
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PERCENTAGE OF SYLLAUS REVISED: 80

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision

Board: Commerce

Semester: II

Course Code/Name: Business Environment

Unit	Existing	Changes
I	Introduction of Business Environment – Nature and Scope of Business – Characteristics of Business – Objectives of Business – Social Responsibilities of Business – Economic Environment – Social and Cultural Environment	An Introduction The Concept of Business Environment - Its Nature and Significance – Brief Overview of Political – Cultural – Legal – Economic and Social Environments and their Impact on Business and Strategic Decisions.
II	Political and Legal Environment – Constitutional Environment in India – Legal Environment – Technological Environment – Socio – Cultural Environment	Political Environment Political Environment – Government and Business Relationship in India – Provisions of Indian Constitution Pertaining to Business.
III	Economic Environment;- Economic Systems – Economics systems – Economic Planning – Economic Policies – Business Cycle – Control of Business – Characteristics of Inflation – Control of inflation	Social and Cultural Environment Social and Cultural Environment – Impact of Foreign Culture – Castes and Communities – Linguistic and Religious Groups – Types of Social Organization – Social Responsibilities of Business.
IV	Financial Environment and Financial System – What is a Financial System – Importance and Role of Banks in the Economy – Functions of Commercial Banks.	Economic Environment Economic Environment – Economic Systems and their Impact of Business – Macro Economic Parameters like GDP - Growth Rate Population – Urbanization - Fiscal Deficit – Plan Investment – Per Capita Income and their Impact on Business Decisions.
V	Environment Analysis and Managerial Development – Techniques of Environmental Analysis SWOT Analysis – Training and Development of Professional Managers – Management by Objectives Methods – Advantages of Management Training – Limitations of MBO	Technological Environment Technological Environment – Meaning- Features OF Technology-Sources of Technology Dynamics-Transfer of Technology- Impact of Technology on Globalization- Status of Technology in India- Determinants of Technology Environment.

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PERCENTAGE OF SYLLAUS REVISED: 70

COURSES FOCUSES ON:

✓	Skill development		Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision- New Course

Board: Commerce

Semester: II

Course Code/Name: Insurance and Risk Management

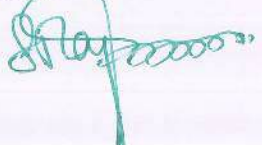
Unit	Content
I	Introduction to Insurance Definition of Insurance - Characteristics of Insurance – Principles of Contract of Insurance – General Concepts of Insurance – Insurance and Hedging – Types of Insurance – Insurance Intermediaries.
II	Life Insurance Life Insurance Business - Fundamental Principles of Life Insurance – Basic Features of Life Insurance Contracts - Life Insurance Products – Traditional and Unit Linked Policies – Individual and Group Policies - With and Without Profit Policies – Policies - Types of Life Insurance Policies.
III	General Insurance General Insurance Business - Fundamental Principles of General Insurance – Types - Fire Insurance – Marine Insurance – Motor Insurance – Personal Accident Insurance – Liability Insurance – Miscellaneous Insurance – Claims Settlement.
IV	Risk Management Risk Management – Objectives – Process – Identification, Evaluation, Retention and Risk Transfer – Risk Financing - Level of Risk Management – Corporate Risk Management – Management of Risk by Individual.
V	IRDA Act 1999 Insurance Regulatory and Development Authority 1999 (IRDA) – Introduction – Purpose, Duties, Powers and Functions of IRDA – Operations of IRDA – Insurance Policyholders' Protection under IRDA – Exposure/Prudential Norms - Summary Provisions of Related Acts.

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course

Board: Commerce

Semester: II

Course Code/Name: Office Management and Secretarial Practice

Unit	Content
I	Modern Office and Its Function: Introduction — Meaning of Office—Office Work—Office Activities —The Purpose of an Office— Office Functions — Importance of Office—The Changing Office—The Paperless Office — Office Management - Elements— Functions — Office Manager — Success Rules for Office Managers—The Ten Commandments.
II	Office Space and Environment Management: Introduction— Principles — Location of Office — Office Building — Office Layout —Preparing the Layout — Re-layout — Open and Private Offices — New Trends in Office Layout. Office Lighting— Types of Lighting Systems—Designing a Lighting System - Benefits of Good Lighting in Office —Ventilation—Interior Decoration - Furniture — Freedom from Noise and Dust — Safety from Physical Hazards— Sanitary Requirements—Cleanliness —Security—Secrecy.
III	Office Systems and Procedures: The Systems Concept —Definitions— Systems Analysis —Flow of Work—Analysis of Flow of Work — Role of Office Manager in Systems and Procedures — Systems Illustrated - Office Machines and Equipments. Office forms - Design, Management and Control
IV	Records Management Records — Importance of Records — Records Management — Filing — Essentials and Characteristics of a Good Filing System — Classification and Arrangement of Files — Filing Equipment — Methods of Filing — Modern Filing Devices — Centralized vs. Decentralized Filing — Indexing — Types of Indexing—Selection of Suitable Indexing System—The Filing Routine — The Filing Manual — Records Retention — Evaluating the Records Management Programme—Modern Tendencies in Records Making
V	Secretarial Practice Role of Secretary: Definition; Appointment, Duties and Responsibilities of a Personal Secretary - Qualifications for Appointment as Personal Secretary. Modern Technology and Office Communication, Email, Voice Mail, Internet, Multimedia, Scanner, Video-Conferencing, Web-Casting. Agenda and Minutes of Meeting. Drafting, Fax-Messages, Email. Maintenance of Appointment Diary.


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PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: II

Board: Commerce

Course Code/Name: Personal Investment

Unit	Content
I	Introduction of Investment Meaning and Definition of Investment – Concepts of Investment, Nature of Investment, Types of Investors, Stages in Investment, Speculation- Types of Speculators, Distinction between Investment and Speculation, Gambling – Meaning, features, Distinction between Investment and Gambling
II	Kinds of Investment Importance and basic Principles of Investment , Kinds of Investment – Direct Investment alternatives – Fixed Principal Investments, Variable Principal Securities and Non-Security Investments – Stages in Investment.
III	Investment Planning]Investment Planning – Financial Planning and Investment Planning, Features of Investment Planning, Setting of investment goals at different stages of an individual ,Deciding the investment time frame
IV	Investment Alternatives Popular Investment Media – Bank deposits –Saving deposits, Fixed deposits, Recurring Deposits, Instruments of post office ,Savings certificates, Public Provident Fund , Company deposits – Life Insurance Schemes – Endowment policy, Whole Life policy, Term Life Policy, Money Back Policy, Joint Life Policy, Children’s Insurance Policy, Group Policy, Unit Linked Insurance Plans – Income tax benefits with respect to payment of premiums. Real Estate – Reasons for growth, problems with Real Estate Investments, Chit funds, Plantation and Farm Houses, Gold and Silver.
V	Kinds of Shares Investment in Equity and Preference Shares. Methods of Trading in Stock Exchanges, Investors’ Protection, Problems & Remedies, Role of SEBI in protecting investors’ interests Recent Contours Trends, assignments and Seminars


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PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: II

Board: Commerce

Course Code/Name: Elements of Insurance

Unit	Content
I	INTRODUCTION TO INSURANCE: Introduction to insurance: purpose and need of insurance – insurance as a social security tool – Insurance and economic development – types of insurance.
II	LICENSE FOR AGENT: Procedure for becoming an agent: Pre-requisite for obtaining a license – duration of license – cancellation of license – revocation or suspension/termination of agent appointment – code of conduct – unfair practices
III	REGULATIONS FOR AGENT: Fundamentals of agency - definition of agent – agent's regulations – insurance intermediaries – agents' compensation – IRDA.
IV	FUNCTIONS OF AGENT: Functions of the agent: proposal form and other forms for grant of cover – financial and medical underwriting – material information – nomination and assignment – procedure regarding settlement of policy claims
V	TYPES OF INSURANCE: Fundamentals/Principles of life insurance/marine/fire/medical/general insurance: Contracts of various kinds – insurable interest – Actuarial science.


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COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Commerce

Semester: III

Course Code/Name: Corporate Accounting -I

Unit	Existing	Changes
I	Issue and forfeiture of shares – Redemption of Preference shares.	Issue of Shares Issue of Shares - Forfeiture - Reissue – Pro-rata Allotment – Right Issue – Bonus Issue - Underwriting of Shares and Debentures – Underwriting Commission - Types of Underwriting.
II	Issue of Debentures – Redemption of debentures – Profits prior to Incorporation.	Redemption of Preference Shares & Debentures Redemption of Preference Shares–Provisions of Companies Act– Capital Redemption Reserve – Minimum Fresh Issue – Redemption at Premium. Debentures: Issue and Redemption – Meaning – Methods – In One Lot – in Instalment – Purchase in the Open Market includes Ex Interest and Cum Interest - Sinking Fund Investment Method.
III	Final accounts of corporate businesses – Divisible profit and dividends – bonus shares	Final Accounts Introduction – Final Accounts – Form and Contents of Financial Statements as Per Schedule III of Companies Act 2013 – Part I Form of Balance Sheet – Part II Form of Statement of Profit and Loss – Ascertaining Profit for Managerial Remuneration. Profit Prior to Incorporation.
IV	Valuation of goodwill and shares – Holding Company.	Valuation of Goodwill & Shares Valuation of Goodwill and Shares - Factors Affecting Goodwill - Methods of Valuation - Acquisition of Business.
V	Alteration of share capital and internal Reconstruction - Amalgamation and External Reconstruction.	Indian Accounting Standards International Financial Reporting Standard (IFRS)–Meaning and its Applicability in India - Indian Accounting Standards – Meaning – Objectives – Significance – Accounting Standards in India – Procedures for Formulation of Standards – Ind AS – 1 Presentation of Financial Statement, Ind AS – 2 Valuation of Inventories, Ind AS – 7 Cash Flow Statement, Ind AS – 8 Accounting Policies, Changes in

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		Accounting Estimate and Errors, Ind AS 12 Income Tax Indi AS – 16, Property Equipment Ind AS – 103, Business Combinations Ind AS 110, Consolidated Financial Statement.
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PERCENTAGE OF SYLLAUS REVISED: 60

COURSES FOCUS ON:

✓	Skill development		Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. Srinivasan
DEAN

School of Commerce and Management
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BOS

Syllabus Revision

Board: Commerce

Semester: III

Course Code/Name: Company Law

Unit	Existing	Changes
I	Companies Act – Definition of company – formation – kinds – incorporation – characteristics of company – memorandum of association – alteration – duties of secretary regarding the above.	Introduction to Company law Companies Act 2013 – Definition of a Company, Characteristics of Company – Lifting or Piercing the Corporate Veil – Company Distinguished from Partnership and Limited Liabilities Partnerships – Classification of Companies – Based on Incorporation, Liability, Number of Members, Control
II	Articles of association – contents – alteration – Prospectus – Statement in lieu of prospectus – Shares – Kinds – allotment – minimum subscription – transfer and transmission of shares – Share warrant – Share certificate – Secretarial duties regarding the above.	Formation of Company Formation of a Company – Promoter – Fundamental Documents – Memorandum of Association – Contents – Alteration – Legal Effects – Articles of Association - Certificate of Incorporation – Prospectus – Contents - Kinds – Liabilities – Share Capital – Kinds – Issue – Alteration – Dividend – Debentures
III	Types of secretary – Qualification – appointment - functions – Legal position – Rights – Duties – Liabilities	Meeting Meeting and Resolution – Types – Requisites – Voting & Poll – Resolution – Ordinary, Special Audit & Auditors – Qualification, Disqualification, Appointment and Removal of an Auditor
IV	Directors – Rights – Duties – Powers – Shares qualification – Liabilities.	Management & Administration Management & Administration – Directors – Legal Position – Board of Directors – Appointment/ Removal – Disqualification – Director Identification Number – Directorships – Powers – Duties – Board Committees – Related Party Transactions – Contract by One – Person Company – Insider Trading- Managing Director – Manager – Secretarial Audit – Administrative Aspects and Winding Up – National Company Law Tribunal (NCLT) – National Company Law Appellate Tribunal (NCLAT) – Special Courts
V	Communication pertaining to meetings – Preparation of notices – Agenda – Proxies –	Winding up Meaning – Modes – Compulsory Winding Up –

K. S. S. S.
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School of Commerce and Management
Ponnaiyah Ramajayam Institute of
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Motions-Resolutions – Minutes – Duties of the chairman of the meeting.	Voluntary Winding Up – Consequences of Winding Up Order – Powers of Tribunal – Petition for Winding Up – Company Liquidator
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PERCENTAGE OF SYLLAUS REVISED: 60

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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BOS

Syllabus Revision- New Course

Board: Commerce

Semester: III

Course Code/Name: International Trade

Unit	Content
I	Introduction to International Trade – Meaning – Definition - Difference between Internal and International Trade – Importance of International Trade in the Global context
II	Theories of International trade: Classical theories - Adam smith's theory of Absolute Advantage – Ricardo's Comparative cost theory - Modern theories of International Trade - Haberler's Opportunity Cost theory – Heckscher –Ohlin's Modern theory – International trade and Factor Mobility Theory – Leontiff's Paradox - International trade and economic growth theory - Immiserating growth theory.
III	Balance of Payments – Components of Balance of Payments - Current account, Capital account & Official settlement accounts - Disequilibrium in BOP -Methods of correcting Disequilibrium - Balance of Payment adjustment Theories - Marshall Lerner mechanism. Balance of Trade – Terms of Trade – Meaning – Definition – Difference between BOP and BOT.
IV	International Economic Institutions - International Monetary System - Bretton Woods Conference – IMF - Objectives, Organizational structure – Membership – Quotas – Borrowing and Lending Programme of IMF – SDRs – India and IMF -World Bank and UNCTAD.
V	World Trade Organization (WTO) – Functions and Objectives – Agricultural Agreements – GATS - TRIPS – TRIMS.

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Board: Commerce

Semester: III

Course Code/Name: Principles of Marketing

Unit	Content
I	Introduction to Marketing Meaning-Definition and Functions of Marketing- Evolution of Marketing Concepts-Marketing Orientation-Innovations in Modern Marketing. Marketing Management: Definitions-Functions - Role and Importance of Marketing - Classification of Markets - Niche Marketing - Characteristics of Niche Marketing - Local Marketing - Green Marketing.
II	Market Segmentation Concept - Benefits -Types- Geographic - Demographic - Psychographic - Behavioural - Marketing Mix - Definition - 4 P's of Marketing Mix - Introduction to Consumer Behaviour -Purchase Decision - Post Purchase Behaviour - Consumer Buying Decision Process - Motives & Needs, Freud's Theory of Motivation.
III	Product & Price Definition - Product Mix - Introduction to Stages of New Product Development - Product Life Cycle - Sales Forecasting - Methods -Criteria for a Good Forecasting - Pricing-Objectives - Factors Influencing Pricing - Kinds of Pricing - Resale Price Maintenance.
IV	Promotions and Distributions Communication Mix - Communication Process -Advertising-Media-Kinds of- Advertising Media- Sales Promotion - Personal Selling-Classification of Salesmanship - Channel Members-Types-Channel of Distribution for Consumer Goods - Channels of Distribution for Industrial Goods.
V	Competitive Analysis and Strategies Balancing Customer and Competitor Orientations-Global Market Environment- Social Responsibility and Marketing Ethics, Citizen and Publications to Regulate Marketing -Recent Trends in Marketing- A Basic Understanding of E-Marketing-E-Tailing-Consumerism-Market Research-MIS and Marketing Regulation.

K. S. J.

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PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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Syllabus Revision- New Course

Board: Commerce

Semester: III

Course Code/Name: EXIM Procedure and Documentation

Unit	Content
I	Export-Import Procedure Procurement for Export-Planning and Methods of Procurement for Exports - Procurement Through Imports, Financing Import – Instruments and Related Procedures and Documentation; Custom Clearance of Import-Regulations, Procedure and Documentation.
II	Export Documentation Types of Documents – Characteristics and Relevance. An Introduction to Online Documentation. Getting Ready for Export Contract and Incoterms. Procuring and Processing of an Export Order. Methods and Terms of Payments for Exports-Documentary Credit and Collection Financing for Export Pre- and Post-Shipment Credit.
III	Import Documentation Duty Exemption Schemes -Objectives, Benefits, Procedures and Documentation –Schemes for Import of Capital Goods-Procedures and Documentation for New/ Second-Hand Capital Goods.
IV	Export Incentive and cargo handling: Foreign Exchange Risks Nature of Risks, Cargo Insurance - Contract of Cargo Insurance, Procedures and Documentation for Cargo Loss Claims-Role and Schemes of ECGC of India and Commercial Banks, Quality Control and Pre-Shipment Inspection: Schemes Excise and Custom Clearance Regulations, Procedures and Documentation – Export Incentives.
V	Institutional Support Export/Trading/Star Trading/Superstar Houses - Objective Criteria and Benefits - Procedures and Documentation –Special Economic Zones: Objectives and Benefits – Introduction to Export Promotion Council (EPC) –Indian Trade Promotion Organization (ITPO).

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability	✓	Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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Syllabus Revision- New Course

Semester: III

Board: Commerce

Course Code/Name: Information Technology and Concept

Unit	Content
I	Introduction to Computers - Definition, Characteristics of computer, Evolution of Computer, Block Diagram Of a computer, Generations of Computer, Classification Of Computers, Applications of Computer, Capabilities and limitations of computer.
II	Computer peripherals - Role of I/O devices in a computer system. Input Units: Keyboard, Terminals and its types. Pointing Devices, Scanners and its types, Voice Recognition Systems, Vision Input System, Touch Screen, Output Units: Monitors and its types. Printers: Impact Printers and its types. Non Impact Printers and its types, Plotters, types of plotters, Sound cards, Speakers, storage units.
III	Software and its needs, Types of S/W. System Software: Operating System, Utility Programs Programming Language: Machine Language, Assembly Language, High Level Language their advantages & disadvantages. Application S/W and its types: Word Processing, Spread Sheets Presentation, Graphics, DBMS s/w.
IV	Data Communication and BDP: Communication Process, Data Transmission speed, Communication Types (modes), Data Transmission Medias, Modem. Business DataProcessing: Introduction, data storage hierarchy, Method of organizing data, File Types, File Organization.
V	Computers at Home, Education, Entertainment, Business, Science, Medicine and Engineering-Introduction to Computer Security - Computer Viruses, Bombs, Worms - WWW and Internet

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision- New Course

Board: Commerce

Semester: V

Course Code/Name: Salesmanship

Unit	Content
I	Introduction to selling- meaning- definitions- importance- methods- qualities- functions duties-responsibilities – types of sales person – sales careers.
II	Selling process – steps- customer expectations – understanding prospects- importance sources- buyer motives and behaviour- transaction oriented selling – relationship selling.
III	Selling techniques – planning- setting objectives- approach techniques–building rapport- product knowledge- product benefits- features –functions- sales presentation demonstration- handling
IV	Sales territory- sales targets/quotas- creating product strategies – understanding selling terms and prices- retail store sales person- online stores and sales opportunities – personal selling in the information age
V	Sales force management- selection- training- motivation- compensation – supervision and control- sales reports and knowledge management – evaluation- selling expenses- sales team professionalism – ethics- personal grooming.
VI	Sales management focuses on the activities of first line field sales managers, course pack will enable students to understand supply chain management which has improved the efficiency in distribution.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision

Board: Commerce

Semester: IV

Course Code/Name: Corporate Accounting II

Unit	Existing	Changes
I	Issue and forfeiture of shares – Redemption of Preference shares.	Amalgamation, Absorption & External Reconstruction Amalgamation, Absorption and External Reconstruction - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method - Types of Amalgamation (Excluding Inter-Company Holdings).
II	Issue of Debentures – Redemption of debentures – Profits prior to Incorporation.	Alteration of Share Capital – & Internal Reconstruction Alteration of Share Capital – Modes of Alteration - Internal Reconstruction – Conversion of Stock – Increase and Decrease of Capital – Reserve Liability.
III	Final accounts of corporate businesses – Divisible profit and dividends – bonus shares	Accounting of Banking Companies Final Statements of Banking Companies (As Per New Provisions) - Non- Performing Assets - Rebate on Bills Discounted- Profit and Loss a/c - Balance Sheet as Per Banking Regulation Act 1949.
IV	Valuation of goodwill and shares – Holding Company.	Consolidated Financial Statements Introduction-Holding & Subsidiary Company- Legal Requirements Relating to Presentation of Accounts -Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).
V	Alteration of share capital and internal Reconstruction - Amalgamation and External Reconstruction.	Liquidation of Companies Meaning-Modes of Winding Up – Preparation of Statement of Affairs and Deficiency Accounts - Order of Payment – Liquidators Remuneration- Liquidator's Final Statement of Accounts.

K. Srinivasan

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PERCENTAGE OF SYLLAUS REVISED:60

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision- New Course

Board: Commerce

Semester:IV

Course Code/Name: Business Mathematics & Statistics

Unit	Content
I	Ratio Ratio, Proportion and Variations, Indices and Logarithms.
II	Interest and Annuity Banker's Discount – Simple and Compound Interest - Arithmetic, Geometric and Harmonic Progressions. Annuity - Meaning - Types of Annuity Applications.
III	Business Statistics Measures of Central Tendency Arithmetic Mean, Geometric Mean - Harmonic Mean - Mode and Median – Quartiles – Deciles - Percentiles. Measures of Variation – Range - Quartile Deviation and Mean Deviation - Variance and Standard Deviation & Co-efficient.
IV	Correlation and Regression Correlation - Karl Pearson's Coefficient of Correlation – Spearman's Rank Correlation – Regression Lines and Coefficients.
V	Time Series Analysis and Index Numbers Time Series Analysis: Secular Trend – Seasonal Variation – Cyclical variations - Index Numbers – Aggregative and Relative Index – Chain and Fixed Index – Wholesale Index – Cost of Living Index.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester:IV

Board: Commerce

Course Code/Name: Business Legislative Law

Unit	Content
I	Factories Act 1948 Definitions - Objects –Scope – Approval – Licensing – Registration of Factories – Notice by Occupier – General Duties of Occupier and Manufacturer – Measures to be Taken by Factories for Health, Safety and Welfare of Workers – Measures – Special Provisions Relating to Hazardous Processes – Working Hours of Adults – Additional Provisions Regulating Employment of Women in a Factory – Employment of Young Person and Children – Annual Leave with Wages – Penalties and Procedures.
II	Foreign Exchange Management Act, 1999 Introduction - Board Structure of FEMA – Definitions - Regulation & Management of Foreign Exchange - Contraventions & Penalties – Procedure for Compliance.
III	Prevention of Money Laundering Act, 2002 Definitions – Punishment for the Offence of Money Laundering - Obligations of Banking Companies - Financial Institutions and Intermediaries or a Person Carrying on a Designated Business or Profession - Adjudication Authorities & Procedures.
IV	Competition Act, 2002 Definitions - Prohibition of Agreements- Prohibition of Abuse of Dominant Position – Competition Commission of India - Establishment, Administration & Duties Powers – Competition Advocacy - Adjudication Authorities – Penalties & Prosecution.
V	Intellectual Property Rights Intellectual property rights (IPR) – An Introduction - Kinds of Intellectual Property Rights - Patent, Copyright, Trade Mark, Design, Geographical Indication, Plant Varieties and Layout Design Genetic Resources and Traditional Knowledge – Trade Secret - IPR in India: Genesis and development.

K. Srinivasan
DEAN

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Science & Technology (PRIST)
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PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability	✓	Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision- New Course

Semester: IV

Board: COMMERCE

Course Code/Name: CONSUMERISM & CONSUMER PROTECTION

Unit	Content
I	Meaning of Consumer and Customer - Consumer Movements – Historical Perspectives- Concept of Consumerism –Need and Importance
II	Meaning and Causes of Consumer Exploitation- Forms of Consumer - Exploitation Underweight Measures, High Prices, Substandard Quality, Poor or Inadequate After Sales Services- Challenges of Consumer Exploitation
III	Consumer Rights – John F Kennedy’s Consumer Bill of Rights. -Types of Consumer Rights – Right to Safety, Right to Information (RTI), Right to Re dressal, Right to Consumer Education -Duties of Consumers.
IV	Reasons for the Growth of Consumerism in India - Recent Trends in Consumerism - Problems Faced by Consumers in India
V	Consumer Protection Council – Central, State, Districts Consumer Protection Councils- Consumer Dispute Re dressal Mechanism.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision- New Course

Board: COMMERCE

Semester: IV

Course Code/Name: E-COMMERCE

Unit	Content
I	Defining E - Commerce; Main Activities of Electronic Commerce; Benefits of E-Commerce; Broad Goals of Electronic Commerce; Main Components of E-Commerce; Functions of Electronic Commerce - Process of E-Commerce - Types of E- Commerce; The World Wide Web, The Internet and the Web: Features, Role of Automation & Artificial Intelligence in E-Commerce
II	E-commerce Business Models, Major Business to Consumer (B2C) Business Models, Major Business to Business (B2B) Business Models, Business Models in Emerging E-Commerce Areas - E-tailing: Traditional Retailing and E- retailing, Benefits of E-retailing, Models of E-retailing, Features of E-retailing.
III	The Internet Audience and Consumer Behaviour, Basic Marketing Concepts, Internet Marketing Technologies – Marketing Strategy - E services: Categories of E-services, Web-Enabled Services, Information-Selling on the Web.
IV	Benefits of EDI, EDI Technology, EDI Standards, EDI Communications, EDI Implementation, EDI Agreements, EDI Security. Electronic Payment Systems, Need of Electronic Payment System - Digital Economy - Threats in Computer Systems: Virus, Cyber Crime Network Security: Encryption, Protecting Web Server with a Firewall, Firewall and the Security Policy, Network Firewalls and Application Firewalls, Proxy Server.
V	Issues in E Commerce Understanding Ethical, Social and Political Issues in E-Commerce: A Model for Organizing the Issues, Basic Ethical Concepts, Analysing Ethical Dilemmas, Candidate Ethical Principles Privacy and Information Rights: Information Collected at E-Commerce Websites..

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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THANJAVUR - 613 403.

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Syllabus Revision

Board: Commerce

Semester: V

Course Code/Name: COST ACCOUNTING I

Unit	Existing	Changes
I	Cost accounting definitions – Functions, Importance, Advantages and Limitations – Relationship between cost and Financial Accounting – Installation of costing system – Cost Unit and Cost Centre – Elements of Cost – Cost sheet – Tender and quotation.	Definition-Nature and Scope – Principles of Cost Accounting – Cost Accounting and Financial Accounting - Cost Accounting Vs Management Accounting – Installation of Costing System – Classification of Costs– Cost Centre– Profit Centre.
II	Materials cost control – Material Purchases – Storage of Material – Various levels of Stock – Pricing of Materials Issues.	Preparation of Cost Sheet - Tenders & Quotations - Reconciliation of Cost and Financial Accounts – Unit Costing-Job Costing.
III	Labour Cost Control – Piece and Time Rates – Incentive Plans – Labour turnover – Idle time – Overheads – Allocation – Apportionment – Re Apportionment and Absorption.	Material Control – Meaning and Objectives – Purchase of Materials – EOQ – Stores Records – Reorder Levels – ABC Analysis - Issue of Materials – Methods of Issue – FIFO – LIFO – Base Stock Method – Specific Price Method – Simple and Weighted Average Method..
IV	Process Costing (Excluding Inter Process, Equivalent Production – By product– Joint product) and – Operating Costing.	Direct Labour and Indirect Labour – Time Keeping – Methods and Calculation of Wage Payments – Time Wages – Piece Wages – Incentives – Different Methods of Incentive Payments - Idle time–Overtime – Labour Turnover - Meaning, Causes and Measurement.
V	Contract Costing – Reconciliation of Cost and Financial Accounting.	Overheads – Definition – Classification – Allocation and Apportionment of Overheads – Basis of Apportionment – Primary and Secondary Distribution - Absorption of Overheads – Methods of absorption Preparation of Overheads Distribution Statement – Machine Hour Rate – Computation of Machine Hour Rate.

K. Srinivasan
DEAN

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Science & Technology (PRIST)
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PERCENTAGE OF SYLLAUS REVISED: 70

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision

Board: Commerce

Semester: V

Course Code/Name: BANKING THEORY LAW AND PRACTICE

Unit	Existing	Changes
I	Bank and Banking – Role and importance of Banking – Classification of Commercial Banks – Functions of commercial Banks – Investment Policy of a Commercial Bank – Functions of RBI.	History of Banking- Provisions of Banking Regulations Act 1949 - Components of Indian Banking - Indian Banking System-Phases of Development - Banking Structure in India - Payment Banks and Small Banks - Commercial Banking: Definition - Classification of Banks. Banking System - Universal Banking - Commercial Banking functions - Role of Banks in Economic Development. Central Banking: Definition –Need - Principles- Central Banking Vs Commercial Banking - Functions of Central Bank.
II	E – Banking – Forms of E- Banking Automatic Teller Machine (ATMS) – Credit Cards, Debit Cards – Types of Credit Cards – Types of Bank Accounts – Types of Deposits – Electronic Funds Transfer.	Establishment – objective - Legal framework – Functions. – SBI - Origin and History – Establishment Indian subsidiaries - Foreign subsidiaries -Non-Banking-Subsidiaries-Personal banking International banking-Trade Financing-Correspondent banking - Co-operative banks-Meaning and definition-Features-Co-operative banks vs Commercial banks-Structure.-NBFC-Role of NBFCRBI Regulations-Financial sector reforms-Sukhmoy committee 1985-Narasimham committee I and II-Prudential norms: capital adequacy norms-classification of assets and provisioning – Meaning, Structure of Interest Rates - Short term and Long Term – Impacts of Savings and Borrowings.
III	Special Types of Bank customers – The Paying Banker – The Collecting Banker	Opening – Types of Accounts-FDR-Steps in opening Account-Saving vs Current Account-‘Donatio Mortis


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		Causa'-Passbook-Bank Customer Relationship-Special Types of currents – KYC norms. Bank Lending –Lending Sources-Bank Lending Principles-Forms of lending-Loan evaluation process-securities of lending-Factors influencing bank lending – Negotiable Instruments – Meaning –Characteristics-Types. Crossing –Definition –Objectives-Crossing and negotiability-Consequences of Crossing.
IV	Negotiable Instruments – Characteristics – Parties to Negotiable Instruments – Endorsement – Types of Endorsement.	Meaning-Components-Kinds of Endorsements-Cheques payable to fictitious person Endorsement by legal representative –Negotiation bank-effect of endorsement-Rules regarding Endorsement - Paying banker-Banker's duty-Dishonouring of Cheques- Discharge of paying banks Payments of a crossed cheque payment. Collecting bankers-Statutory protection under section85 - Refusal of cheques Payment. Collecting Banker-Statutory protection under section 131-Collecting bankers' duty –RBI instruction –Paying Banker Vs Collecting Banker- Customer Grievances-Grievance Redressal – Banking Ombudsman
V	Bills of exchange and Promissory notes – Cheques and Bank Drafts Crossing of Cheques.	Meaning-Services-e-banking and financial services- Initiatives-Opportunities-Internet banking Meaning-Internet banking Vs Traditional Banking-Services-Drawbacks-Frauds in Internet


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PERCENTAGE OF SYLLAUS REVISED: 70

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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BOS

Syllabus Revision

Board: Commerce

Semester: V

Course Code/Name: INCOMETAX LAW AND PRACTICE

Unit	Existing	Changes
I	Basic Concepts – Definitions – Assesses – Person, income, assessment year, previous year, basis of charge: Determination of Residential Status – Incomes exempt from tax under Sections 10,11,12,13 and 13A.	Introduction to Income Tax – History – Objectives of Taxation - Features of Income Tax – Meaning of Income – Types – Important Definitions Under the Income Tax Act – Assessee – Types– Incomes Exempted under Section 10.
II	Salary: Definition – Salary under section 17 – allowances, perquisites, profit in lieu of salary – deductions under section 16 - computation of salary income.	Residential Status – Residential Status of an Individual – Company – HUF – Basic Conditions – Additional Conditions – Incidence of Tax and Residential Status – Problems on Residential Status and Incidence of Tax.
III	House property: Definition, exempted incomes from house property – Annual value – determination of annual value – Let out – Self occupied – Deductions – computation of property income.	Computation of Salary Income – Features of Salary – Allowances – Types of Allowances - Perquisites – Kinds of Perquisites –Types of Provident Fund - Gratuity – Pension – Commutation of Pension – Deduction of Salary - Profits in Lieu of Salary
IV	Profits and Gains of business or profession – definition – charging provisions – deductions – computation of business and professional income	Income from House Property –Basis of Charge – Annual Value –Gross Annual Value, Net Annual Value of Let-out Property, Self- Occupied Property–Amenities–Deductions
V	Capital Gains: Basis of charge – Cost of acquisition, cost of improvement – exempted capital gain – computation of capital gain – Income from other sources – Chargeability – deductions – Computation of Income under other sources.	Income from Business or Profession – Allowable Expenses – Not Allowable Expenses - General Deductions – Provisions Relating to Depreciation – Deemed Business Profits - Undisclosed Incomes – Investments – Compulsory Maintenance of Books of Accounts – Audit of Accounts of Certain Persons – Special Provisions for Computing Incomes on Estimated Basis – Computation of Income from Business or Profession.

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DEAN

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PERCENTAGE OF SYLLAUS REVISED: 60

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

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Syllabus Revision- New Course

Board: COMMERCE

Semester: V

Course Code/Name: AUDITING AND CORPORATE GVERNANCE

Unit	Content
I	Meaning and Definition of Auditing –Distinction between Auditing and Accounting – Objectives – Advantages and Limitations of Audit – Scope of Audit – Classifications of Audits – Audit of Banking, Insurance, Non-Profit Organizations and Charitable Societies, Trusts, Organizations.
II	Audit Planning – Audit Programmed – Procedures - Internal Audit - Internal Control – Internal Check – Vouching – Cash and Trade Transactions - Verification and Valuations of Assets and Liabilities.
III	Appointment and Removal of Auditors – Rights, Duties and Liabilities of Auditor – Professional Conduct and Ethics in Auditing - Audit Report - Recent Trends in Auditing - Information Systems Audit (ISA) – Impact of Computerization on Audit Approach – Online Computer System Audit – Types of Online Computer Systems – Procedure of Audit under ISA System.
IV	Conceptual Framework of Corporate Governance: Theories & Models, Broad Committees - Corporate Governance Reforms. Major Corporate Scandals in India and Abroad: Common Governance Problems Noticed in various Corporate Failures. Codes & Standards on Corporate Governance
V	Concept of CSR, Corporate Philanthropy, Strategic Relationship of CSR with Corporate Sustainability - CSR and Business Ethics, CSR and Corporate Governance - CSR Provisions under the Companies Act, 2013..

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

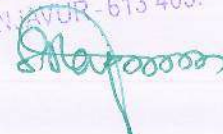
✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		



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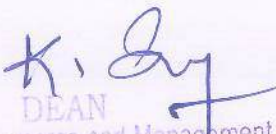
Syllabus Revision

Board: Commerce

Semester: V

Course Code/Name: Entrepreneurial Development

Unit	Existing	Changes
I	Concept of Entrepreneurship – Definitions – Types of Entrepreneurship -Functions - Characteristics - Role of Entrepreneurs in the Economic Development – Factors affecting entrepreneurial growth.	Meaning of Entrepreneurship – Characteristics of Entrepreneurship – Types of Entrepreneurship – Self Employment – Difference between Entrepreneurship and Employment – Meaning of Entrepreneur – Traits – Classification – Functions – Entrepreneurial Scenario in India.
II	Entrepreneurial Development Programmes – Self-Employment schemes – Objectives of EDP - Women entrepreneurs – Phases of EDP - Govt. Policies on entrepreneurial development – Small Entrepreneurs development.	Idea Generation – Identification of Business Opportunities – Design Thinking Process – Creativity – Invention – Innovation – Differences – Value Addition – Concept and Types – Tools and Techniques of Generating an Idea – Turning Idea into Business Opportunity
III	Steps Involved in Establishing a small business – generation of Project ideas – Project identification – Selection of a product - Project formulation - assessment of project feasibility study.	Process of Setting Up an Enterprise – Forms of an Enterprise – Sole Proprietorship – Partnership – Limited Liability Partnership Firm – Joint Stock Company – One Man partnership – Choice of Form of an Enterprise –Feasibility Study – Marketing, Technical, Financial, Commercial and Economical
IV	Legal formalities; Registration and licensing of small scale industrial unit Benefits.–Stages of Registration – Procedures for Registration – Deregistration – Filing of Entrepreneur Memorandum– Licensing for SSI sector.	Introduction – Contents of Project Report – Project Description – Market Survey – Fund Requirement – Legal Compliance of Setting Up of an Enterprise – Registration – Source of Funds – Modern Sources of Funds.
V	Issues in small business marketing – small entrepreneurs in International Business –Accounting for small business – office organization for small business – sickness in small industries.	Government Schemes and Women Entrepreneurship – Importance of MSME for Economic Growth – MSME – Definition – Role of Government Organizations in Entrepreneurship


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		Development – MSME DI – DIC – Khadi and Village Industries Commission – NSIC – NABARD, SICVI, SFC, SDC, EDII, EPCCB. Industrial Estates – Government Schemes – Prime Minister Employment Generation Programme – Women Entrepreneurship in India.
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PERCENTAGE OF SYLLAUS REVISED: 70

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: V

Board: COMMERCE

Course Code/Name: INDIRECT TAXATION

Unit	Content
I	Concept and Features of Indirect Taxes - Difference between Direct and Indirect Taxes – Special Feature of Indirect Tax Levies – Contribution to Government Revenues – Role of Indirect Taxation – Merits and Demerits of Indirect Taxation – Reforms in Indirect Taxation
II	Introduction of Goods and Service Tax in India–History of GST in India –Constitutional Amendment under Pre–Goods and Service Tax Regime and Transitional Provisions - Goods and Service Tax: Concepts, Meaning, Significance, Dual GST, Features and Benefits. GST Common Portal – Taxes and Duties not Subsumed in GST – Rates of GST in India.
III	Supply – Meaning – Classification – Time of Supply – Valuation – Registration – Voluntary – Compulsory – Input Tax Credit – Eligibility – Reversal – Reverse charge Mechanism – E–Way Bill Returns – IGST Act - Export and Import of Goods and Services– Inter State Vs Intra State Supply – Place of Supply. Role of GSTN in Implementation of GST– Anti Profiteering Rules – Doctrine of Unjust Enrichment– Challenges in Implementation of GST.
IV	Registration under GST Law, Tax Invoice Credit and Debit Notes, Different GST Returns, Electronic Liability Ledger, Electronic Credit Ledger, Electronic Cash Ledger, Different Assessment under GST, Interest Applicable under GST (Period), Penalty under GST, Various Provisions Regarding E-way Bill in GST, Mechanism of Tax Deducted at Source (TDS) and Tax Collected at Source (TCS), Audit under GST
V	Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties – Valuation - Baggage Rules & Exemptions

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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BOS

Syllabus Revision- New Course

Board: COMMERCE

Semester: V

Course Code/Name: HUMAN RESOURCES MANAGEMENT

Unit	Content
I	Definition of HRM, Objectives – Importance – Nature- Scope, Role and Qualities of a HR Manager - Human Resource Planning - Meaning, Definition, Importance, Factors Affecting HRP, Process Involved in Human Resource Planning. Human Resource Information System (HRIS) - Job Analysis, Need for Job Analysis, Steps in Job Analysis, Job Description and Specification
II	Definition of Strategy, Strategic Human Resource Management (SHRM), Importance of SHRM, Difference between Traditional and Strategic Human Resource Management, “Best Fit” Approach Vs. Best Practices of SHRM, Role of HR Strategy & Practices in National, Sectorial and Organizational Context, Investment Perspective of SHRM, Porter’s 5 Ps Model
III	Introduction to Industrial Relations - Employee Grievances Concept, Causes & Grievance Redressal Mechanism Discipline- Concept, Aspects of Discipline & Disciplinary Procedure - Trade Unions Act 1926 - Industrial Disputes Act 1947
IV	Organisation Climate – Organization Change – Organisational Development: Definition, Meaning of Organizational Development. - Collective Bargaining- Essentials of Effective Collective Bargaining
V	Employee Welfare: Meaning, Objectives, Philosophy, Scope, Limitations, Types of Employee Welfare, Statutory and Non-Statutory Welfare Measures, and Labour Welfare Theories- Social Security, Health, Retirement & Other Benefits.

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. Suresh
DEAN
School of Commerce and Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
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Syllabus Revision

Board: Commerce

Semester :V

Course Code/Name: FINANCIAL SERVICES

Unit	Existing	Changes
I	Structure of Indian Financial System – Financial assets – Financial intermediaries – Financial market – Money market – capital market.	Structure of Financial System – Role of Financial System in Economic Development – Financial Markets and Financial Instruments – Capital Markets – Money Markets – Primary Market Operations – Role of SEBI – Secondary Market Operations – Regulation – Functions of Stock Exchanges – Listing – Formalities – Financial Services Sector Problems and Reforms.
II	Merchant banking – Definition – Objectives – Functions – Management of New Issues – Indian experience – SEBI Guidelines.	Concept, Nature and Scope of Financial Services – Regulatory Frame Work of Financial Services – Growth of Financial Services in India – Merchant Banking – Meaning-Types – Responsibilities of Merchant Bankers – Role of Merchant Bankers in Issue Management – Regulation of Merchant Banking in India
III	Mutual funds : Meaning – Types – Functions – Institutions involved – UTI , LIC , and Commercial banks – Entry of Private sector – Growth of mutual Funds in India – SEBI Guidelines.	Venture Capital – Growth of Venture Capital in India – Financing Pattern under Venture Capital – Legal Aspects and Guidelines for Venture Capital, Leasing – Types of Leases – Evaluation of Leasing Option Vs. Borrowing
IV	Lease Financing : The concept – Types – Merits and demerits of leasing – Hire purchase – Meaning – Lease Vs Hire purchases – Problems &Prospects of Hire Purchase in India.	Credit Rating – Meaning, Functions – Debt Rating System of CRISIL, ICRA and CARE. Factoring, Forfeiting and Bill Discounting – Types of Factoring Arrangements – Factoring in the Indian Context
V	Factoring : The concept – factoring mechanism – Factoring in India – Forfeiting – Definition – Factoring Vs	Mutual Funds – Concept and Objectives, Functions and Portfolio



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Forfeiting – Venture capital – Credit rating – Benefits – Rating symbols – Rating agencies in India.	Classification, Organization and Management – De-mat Services- Need and Operations- Role of NSDL and CSDL.
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PERCENTAGE OF SYLLAUS REVISED: 50

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Ponnaiyah Ramajayam Institute of
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Science & Technology (PRIST)
THANJAVUR - 613 403.
S. Rajasekar



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Syllabus Revision

Board: Commerce

Semester : VI

Course Code/Name: COST ACCOUNTING II

Unit	Existing	Changes
I	An Introduction to CAS - Purpose of CAS - Advantages of CAS - Difference between CAS and FAR Regulations - Different Degrees of CAS Coverage - Cost Accounting Standards - Responsibility Accounting and Divisional Performance Measurement.	Definition-Nature and Scope - Principles of Cost Accounting - Cost Accounting and Financial Accounting - Cost Accounting Vs Management Accounting -Installation of Costing System - Classification of Costs- Cost Centre- Profit Centre.
II	Definition - Features of Contract Costing - Calculation of Profit on Contracts - Cost Plus Contract- Contract Costing and Job Costing - A Comparison -Preparation of Contract A/c	Preparation of Cost Sheet - Tenders & Quotations - Reconciliation of Cost and Financial Accounts -Unit Costing-Job Costing.
III	Process Costing - Meaning - Features of Process Costing - Application of Process Costing - Fundamental Principles of Process Costing - Treatment of Loss and Gain : Normal and Abnormal Loss - Abnormal Gain - Joint Products, By Products - Concept of Equivalent Production - Process Accounts - Process Losses and Gains..	Material Control - Meaning and Objectives - Purchase of Materials - EOQ -Stores Records - Reorder Levels - ABC Analysis - Issue of Materials -Methods of Issue - FIFO - LIFO - Base Stock Method - Specific Price Method - Simple and Weighted Average Method..
IV	Operation Costing - Meaning - Preparation of Operating Cost Sheet - Transport Costing - Power Supply Costing-Hospital Costing-Simple Problems.	Direct Labour and Indirect Labour - Time Keeping - Methods and Calculation of Wage Payments - Time Wages - Piece Wages - Incentives - Different Methods of Incentive Payments - Idle time-Overtime - Labour Turnover - Meaning, Causes and Measurement.

K. Jay
DEAN

School of Commerce and Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403,

Shayam
HOD

Department of Commerce
Ponnaiyah Ramajayam Institute of
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THANJAVUR - 613 403.



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V	Definition – Objectives – Advantages – Standard Cost and Estimated Cost – Installation of Standard Costing – Variance Analysis – Material, Labour, Overhead, and Sales Variances – Calculation of Variances	Overheads – Definition – Classification – Allocation and Apportionment of Overheads – Basis of Apportionment – Primary and Secondary Distribution - Absorption of Overheads – Methods of absorption Preparation of Overheads Distribution Statement – Machine Hour Rate – Computation of Machine Hour Rate.
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PERCENTAGE OF SYLLAUS REVISED: 60

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. Srinivasan
DEAN

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Syllabus Revision

Board: Commerce

Semester : VI

Course Code/Name: MANAGEMENT ACCOUNTING

Unit	Existing	Changes
I	Definition of management accounting – Nature, scope, objectives, Functions of management accounting –Management Accounting and Financial Accounting Management Accounting and Cost Accounting – Advantages & Limitations of Management Accounting.	Management Accounting– Meaning – Scope – Importance- Limitations - Management Accounting Vs Cost Accounting – Management Accounting Vs Financial Accounting.
II	Financial Statement Analysis – Comparative statement – Common size statement – Trend percentages – Ratio Analysis.	Analysis and Interpretation of Financial Statements – Nature and Significance – Types of Financial Analysis – Tools of Analysis – Comparative Statements – Common Size Statement – Trend Analysis. Ratio Analysis: Meaning – Advantages – Limitations – Types of Ratios – Liquidity Ratios – Profitability Ratios -Turnover Ratios – Capital Structure Ratios – Leverage Ratios - Preparation of Financial Statements from Ratios.
III	Fund Flow Analysis and Cash Flow Analysis.	Introduction, Meaning of Funds Flow Statement-Ascertainment of Flow of Funds -Technique of Preparing Funds Flow Statement- Schedule of Changes in Working Capital-Adjusted Profit and Loss Account - Preparation of Funds Flow Statement. Cash Flow Statements: Meaning – Advantages – Limitations – Preparation of Cash Flow Statement as per AS 3 – Types of Cash Flows - Operating, Financing and Investing Cash Flows

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IV	Marginal costing and Break – Even analysis – Budget and budgetary controls – Classification of budgets.	Budgetary Control: Meaning – Preparation of Various Budgets – Cash Budget - Flexible Budget– Production Budget – Sales Budget.
V	Standard costing and variance analysis, Capital budgeting – Importance – Techniques of Capital budgeting.	Marginal Costing: Meaning - Features – Fixed Cost, Variable Cost and Semi Variable Cost- Contribution- Marginal Cost Equation- P/V Ratio - Break Even Point - Margin of Safety – Cost- Volume Profits Analysis- Break Even Point – Decision Making: Selection of a Product Mix – Make or Buy Decision – Discontinuance of a product line – Change or Status quo – Limiting Factors – Exploring New Markets

PERCENTAGE OF SYLLAUS REVISED:70

COURSES FOCUSES ON

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision

Board: Commerce

Semester : VI

Course Code/Name: INCOMETAX LAW AND PRACTICE

Unit	Existing	Changes
I	Basic Concepts – Definitions – Assesses – Person, income, assessment year, previous year, basis of charge: Determination of Residential Status – Incomes exempt from tax under Sections 10,11,12,13 and 13A.	Capital Gains – Kinds of Capital Assets – Computation of Capital Gains – Exemption under Section 54 , 54B, 54D, 54EC, 54F, 54GA.
II	Salary: Definition – Salary under section 17 – allowances, perquisites, profit in lieu of salary – deductions under section 16 - computation of salary income.	Income from Other Sources – Income Chargeable to Tax under the Head Income from Other Sources – Procedures for Computing Income from Other Sources – Deductions Allowed – Deduction not Allowed – Problems on Computation of Income from Other Sources
III	House property: Definition, exempted incomes from house property – Annual value – determination of annual value – Let out – Self occupied – Deductions – computation of property income.	Provisions for Set-off and Carry Forward of Losses (Simple Problems). Deductions U/S 80C, 80CC, 80CCB, 80CCC, 80CCD, 80 CCE, 80D, 80DD, 80DDB, 80E, 80EE, 80EEA, 80EEB, 80G, 80GG, 80GGA, 80TTA, 80TTB, and 80U only
IV	Profits and Gains of business or profession – definition – charging provisions – deductions – computation of business and professional income	Assessment: Meaning and Types, Computation of Total Income and Tax Liability of an Individuals (simple problems in case of Income from salaries, HP and Profits and Gains – computed income may be given).
V	Capital Gains: Basis of charge – Cost of acquisition, cost of improvement – exempted capital gain – computation of capital gain – Income from other sources – Chargeability – deductions – Computation of Income under other sources.	Administration of Income Tax Act – Income Tax Authorities – Powers of CBDT – Powers of Income – Tax Officers - Procedures for Assessment – Filing of Return – Due Dates of Filing – Voluntary Filing – Return of Loss – Related Return – Defective Return – Signing of Return – Permanent Account Number (PAN)


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PERCENTAGE OF SYLLAUS REVISED: 60

COURSES FOCUS ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

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Syllabus Revision

Board: Commerce

Semester : VI

Course Code/Name: FINANCIAL MANAGEMENT

Unit	Existing	Changes
I	Introduction – Finance and related disciplines – Scope of financial management – Objectives of financial management – Financial Decisions – Organizations of finance function.	Meaning and Objectives of Financial Management – Functions of Financial Management. Finance - Sources of Financing-Role of Financial Manager in Financial Management- Financial Goals-Profit maximization Vs. Wealth Maximization – Components of Financial Management
II	Cost of capital – Cost of debt – Cost of Preference shares – cost of equity – Cost of retained earnings – Weighted average cost of capital.	Capital Structure – Definition - Meaning- Theories- Factors determining Capital Structure – Various approaches of Capital structure - Cost of Capital – Meaning - Methods - Cost of Equity Capital – Cost of Preference Capital – Cost of Debt – Cost of Retained Earnings – Weighted Average (or) Composite Cost of Capital (WACC) Leverage – Concept – Operating and Financial Leverage on EPS.
III	Introduction – Capital structure – Determinants – Theories net income approach – net operating income approach – M.M. Approach – Traditional approach.	Capital Budgeting - Meaning - Process – Cash Flow Estimation- Capital Budgeting Appraisal Methods: Traditional Methods - Payback Period – Accounting Rate of Return (ARR). Discounted Cash-flow Methods: Net Present Value (NPV) – Net Terminal Value - Internal Rate of Return – Profitability Index -
IV	Leverages meaning and Types – Significance – Operating leverage – Financial and combined leverage.	Meaning – Dividend Policies – Factors Affecting Dividend Payment – Provisions on Dividend Payment in Company Law – Dividend Models - Walter's Model - Gordon's Model – M&M Model



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V	Dividend policy – factors influencing dividend policy – Theories – Relationship with value of firms – Stock dividend – Stock splits.	Working Capital - Meaning and Importance – Factors Influencing Working Capital – Determining - Working Capital Operating Cycle - Management of Current Assets: Inventories, Accounts Receivables and Cash
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PERCENTAGE OF SYLLAUS REVISED: 50

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Science & Technology (PRIST)
THANJAVUR - 613 403.

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Syllabus Revision- New Course

Semester: VI

Board: COMMERCE

Course Code/Name: Logistics and Supply Chain Management

Unit	Content
I	Origin – Meaning –Importance - Types of Logistics – Principles of Logistics Management– Warehouse Management – Meaning – Definition – Importance – Types of WM - Automation and Outsourcing – Customer Service and Logistics Management– Perspective– Concepts in Logistics and Physical Distribution– Distribution and Inventory
II	Types of Inventory Control– Demand Forecasting– Routing– Transportation Management– Some Commercial Aspects in Distribution Management– Codification– Distribution Channel Management – Distribution Resource Planning (DRP) – Logistics in 21 st Century.
III	Introduction and Development – Nature and Concept– Importance of Supply Chain – Value Chain – Components of Supply Chain – The Need for Supply Chain – Understanding the Supply Chain – Management – Participants in Supply Chain – Global Applications.
IV	Role of a Manager in Supply Chain - Supply Chain Performance Drivers – Key Enablers in Supply Chain Improvement – Inter Relation between Enablers and Levels of Supply Chain Improvement – Systems and Values of Supply Chain
V	SCOR Model – Outsourcing 3 PLs– Fourth Party Logistics – Bull Whip Effect and Supply Chain – Supply Chain Relationships – Conflict Resolution Strategies – Certifications

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. Sry
DEAN
School of Commerce and Management
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Science & Technology (PRIST)
THANJAVUR-613 403.

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Syllabus Revision

Semester VI:

Board: COMMERCE

Course Code/Name: COMPUTER APPLICATION IN BUSINESS

Unit	Existing	Changes
I	Definition of 'account' — the nature, Objects and utility of accounting in Industrial and Businessenterprises — Books for accounts — Accounting concepts and postulates.	Word Processing Introduction to Word-Processing, Word-Processing Concepts, Use of Templates, and Working with Word Document: Editing Text, Find and Replace Text, Formatting, Spell Check, Autocorrect, Auto Text - Bullets and Numbering, Tabs, Paragraph Formatting, Indent, and Page Formatting, Header and Footer.
II	Objectives of windows – introduction to logging of desktop and task bar – Creation of file andfolder –windows explorer – find option – shortcut – briefcase running applications – customization.	Mail Merge Tables - Inserting, Filling and Formatting a Table - Inserting Pictures and Video - Mail Merge Including Linking with Database - Printing Documents, Creating Business Documents.
III	Word – Objectives – introduction to word – creating word – document – creating businessletters – formatting documents –word count – thesaurus – Mail merge – Excel – Objectives – Introduction to Spreadsheet – creating worksheet – Editing work sheet – charts – applications of financial and statistical functions – Shorting data – filtering data.	Preparing Presentations Basics of Presentations: Slides, Fonts, Drawing, Editing, Inserting, Tables, Images, texts, Symbols. Media – Design – Transition – Animation – Slideshow. Creating Business Presentations.
IV	Tally – introduction – objectives – fundamentals of computerized accounting – principal of accounting – Computerized accounting vs. Manual accounting – Tally advances – introduction to inventory.	Spreadsheet and its Business Applications Spreadsheet: Concepts, Managing Worksheets - Formatting, Entering Data, Editing, and Printing a Worksheet - Handling Operators in Formula, Project Involving Multiple Spreadsheets,


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		Organizing Charts and Graphs. Mathematical, Statistical, Financial, Logical, Date and Time, Lookup and Reference, Database, and Text Functions.
V	Introduction to E- Commerce – scope – issues and impact of E-Commerce classification of E-Commerce applications and benefit of E-Commerce – Advantages & Disadvantages of E-commerce – technology and framework of E-Commerce – E-Payment –EFT- Banking applications.	Creating Business Spreadsheet Creating Spreadsheet in the Area of: Loan and Lease Statement, Ratio Analysis, Payroll Statements, Capital Budgeting, Depreciation Accounting, Graphical Representation of Data, Frequency Distribution and its Statistical Parameters, Correlation and Regression.

PERCENTAGE OF SYLLAUS REVISED:90

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.

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Syllabus Revision – New Course

Semester: VI

Board: COMMERCE


Course Code/Name: BASIC OF MS EXCEL

Unit	Content
I	Introduction Spreadsheets - Workbook - Cell Referencing, Cell Addressing, File Menu; Home Menu, Conditional Formatting, Formatting as a Table, Cell Styles, AutoSum, Sort and Filter; Insert Menu, Inserting Tables and Pivot Tables, Smart Arts, Charts; Page Layout, Review and View Menus; Converting Text to Columns, Removing Duplicates, Data Validation, Grouping and Ungrouping.
II	Financial, Logical and Text Functions Financial Functions Depreciation (DB, DDB, VDB), Simple Interest (PMT, NPER, INTRATE) - Present Value, Net Present Value, Future Value (PV, NPV, FV) - Internal Rate of Return (IRR, MIRR); Logical Functions: AND, OR, NOT, IF, TRUE; Text Functions: UPPER, LOWER, LEFT, RIGHT, TRIM, T, TEXT, LEN, DOLLAR, EXACT; Practical Exercises Based on Financial, Logical and Text Functions.
III	Statistical Analysis Functions Statistical Functions: Mean, Median, Mode, Standard Deviation, Correlation, Skewness, F Test, Z Test, and Chi-Square Analysis.
IV	Reference Date & Time Functions: Date, Date Value, Day, Days 360, Now, Time, Time Value, Workday, Weekday, Year. Lookup and Reference Functions: Hlookup, Vlookup, Transpose, Getpivot Data, Hyperlink - Practical Exercises Based on Statistical, Date & Time, Lookup and Reference Functions.
V	Projects and Applications Ratio Analysis, Cash Flow Statement, Payroll Processing, Marketing, Sales and Advertising Data Analytics, Social Media Marketing Analysis, Basic Applications with Macros and VBAs; Trending Business Applications Using MS Excel.

PERCENTAGE OF SYLLAUS REVISED :100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision

Board: Commerce

SEMESTER: I

Course Code/Name: FINANCIAL ACCOUNTING - I

Unit	Existing	Changes
I	Definition of 'account' — the nature, Objects and utility of accounting in Industrial and Businessenterprises — Books for accounts — Accounting concepts and postulates.	Fundamentals of Financial Accounting Financial Accounting – Meaning, Definition, Objectives, Basic Accounting Concepts and Conventions - Journal, Ledger Accounts– Subsidiary Books — Trial Balance - Classification of Errors – Rectification of Errors – Preparation of Suspense Account – Bank Reconciliation Statement - Need and Preparation
II	The theory of double entry — book keeping — Journal — Subsidiary books — Ledger Trail Balance.	Final Accounts Final Accounts of Sole Trading Concern- Capital and Revenue Expenditure and Receipts – Preparation of Trading, Profit and Loss Account and Balance Sheet with Adjustments.
III	Statement of accounts — Manufacturing account — Trading account — Profit and Loss account.	Depreciation and Bills of Exchange Depreciation - Meaning – Objectives – Accounting Treatments - Types - Straight Line Method – Diminishing Balance method – Conversion method.
IV	The Balance sheet and various forms it may take. Capital and revenue — income and expenditureaccount — Receipts and payments. Depreciation, reasons and provisions.	Accounting from Incomplete Records – Single Entry System Incomplete Records -Meaning and Features - Limitations - Difference between Incomplete Records and Double Entry System - Methods of Calculation of Profit - Statement of Affairs Method – Preparation of final statements by Conversion method. Average Due Date and Account Current.

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V	Consignment- meaning, features of consignment transaction, distinction between consignment and sale, joint venture, meaning, features, difference between joint venture and partnership, joint venture and consignment.	Royalty and Insurance of Claims Meaning – Minimum Rent – Short Working – Recoupment of Short Working – Lessor and Lessee – Sublease – Accounting Treatment. Insurance Claims – Calculation of Claim Amount-Average clause (Loss of Stock only)
	THEORY 20% & PROBLEM 80%	

PERCENTAGE OF SYLLAUS REVISED: 80

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision

SEMESTER:I

BOARD: COMMERCE

Course Code/Name: PRICIPLES OF MANAGEMENT

Unit	Existing	Changes
I	Business Management — Nature — Functions — Management Vs Administration — Science or Art — Contribution by Taylor and Henry Fayol & PeterDrucker	Introduction to Management Meaning- Definitions – Nature and Scope - Levels of Management – Importance - Management Vs. Administration – Management: Science or Art –Evolution of Management Thoughts – F. W. Taylor, Henry Fayol, Peter F. Drucker, Elton Mayo - Functions of Management - Trends and Challenges of Management. Managers – Qualification – Duties & Responsibilities
II	Planning — Process — Kinds of Planning — Objectives — Strategies, Policies, Procedure, Methodsand rule — Forecasting and Planning — Advantages & Limitations - Management by Objectives.	Planning Planning – Meaning – Definitions – Nature – Scope and Functions – Importance and Elements of Planning – Types – Planning Process - Tools and Techniques of Planning – Management by Objective (MBO). Decision Making: Meaning – Characteristics – Types - Steps in Decision Making – Forecasting.
III	Organizing — Process — Features — Elements — Structure Different Forms — Principles of Organization — Departmentation, Delegation and Decentralization	Organizing Meaning - Definitions - Nature and Scope – Characteristics – Importance – Types - Formal and Informal Organization – Organization Chart – Organization Structure: Meaning and Types - Departmentalization– Authority and Responsibility – Centralization and Decentralization – Span of Management
IV	Staffing — Process - Manpower planning — Recruitment — Selection — Training and development	Staffing Introduction - Concept of Staffing- Staffing Process – Recruitment – Sources of Recruitment – Modern Recruitment Methods - Selection Procedure – Test-

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		Interview– Training: Need - Types– Promotion –Management Games – Performance Appraisal - Meaning and Methods – 360 degree Performance Appraisal – Work from Home - Managing Work from Home [WFH].
V	Directing and Co-ordination: Principles — Elements — Controlling — Steps.	<p>Directing Motivation –Meaning - Theories – Communication – Types - Barriers to Communications – Measures to Overcome the Barriers. Leadership – Nature - Types and Theories of Leadership – Styles of Leadership - Qualities of a Good Leader – Successful Women Leaders. Supervision.</p> <p>Co-ordination and Control Co-ordination – Meaning - Techniques of Co-ordination. Control - Characteristics - Importance – Stages in the Control Process - Requisites of Effective Control and Controlling Techniques – Management by Exception [MBE].</p>

PERCENTAGE OF SYLLAUS REVISED: 40

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

SEMESTER: I

BOARD: COMMERCE

Course Code/Name: FINANCIAL ACCOUNTING-II

Unit	Existing	Changes
I	Self Study Unit: Branch accounts (excluding foreign branches) - Departmental accounts.	Hire Purchase and Instalment System Hire Purchase System – Accounting Treatment – Calculation of Interest - Default and Repossession - Hire Purchase Trading Account - Instalment System - Calculation of Profit
II	Hire purchase accounts-Installment purchase system	Branch and Departmental Accounts Branch – Dependent Branches: Accounting Aspects - Debtors system - Stock and Debtors system – Distinction between Wholesale Profit and Retail Profit – Independent Branches (Foreign Branches excluded) - Departmental Accounts: Basis of Allocation of Expenses – Inter- Departmental Transfer at Cost or Selling Price.
III	Average due date-Royalty	Partnership Accounts - I Partnership Accounts: –Admission of a Partner – Treatment of Goodwill - Calculation of Hidden Goodwill – Retirement of a Partner – Death of a Partner.
IV	Consignment-Joint venture	Partnership Accounts - II Dissolution of Partnership - Methods – Settlement of Accounts Regarding Losses and Assets – Realization account – Treatment of Goodwill – Preparation of Balance Sheet - One or more Partners insolvent – All Partners insolvent – Application of Garner Vs Murray Theory – Accounting Treatment - Piecemeal Distribution – Surplus Capital Method – Maximum Loss Method.

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V	Insurance claims for loss of profits-Insolvency accounts-statement of affairs-Insolvency of individual only	Accounting Standards for financial reporting (Theory only) Objectives and Uses of Financial Statements for Users-Role of Accounting Standards - Development of Accounting Standards in India Role of IFRS- IFRS Adoption vs Convergence Implementation Plan in India- Ind AS- An Introduction - Difference between Ind AS and IFRS.
	THEORY 20% & PROBLEMS 80%	

PERCENTAGE OF SYLLAUS REVISED: 80

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

BOARD:COMMERCE

SEMESTER:II

Course Code/Name: BUSINESS LAW

Unit	Existing	Changes
I	Nature and Sources of law — Law of contracts — Essentials of valid contract — Classification of contracts	Elements of Contract Indian Contract Act 1872: Definition of Contract, Essentials of Valid Contract, Classification of Contract, Offer and Acceptance — Consideration — Capacity to Contract — Free Consent — Legality of Object — Contingent Contracts — Void Contract
II	Offer and acceptance — consideration -- capacity to contract — Free consent Legality of object	Performance of Contract Meaning of Performance, Offer to Perform, Devolution of Joint liabilities & Rights, Time and Place of Performance, Reciprocal Promises, Assignment of Contracts - Remedies for Breach of contract - Termination and Discharge of Contract - Quasi Contract
III	Performance of contracts — Discharge of contract — Remedies for breach of contract — Quasi contracts	Contract of Indemnity and Guarantee Contract of Indemnity and Contract of Guarantee - Extent of Surety's Liability, Kinds of Guarantee, Rights of Surety, Discharge of Surety
IV	Contracts of agency — Different classes of agents — creation of agency — Rights and duties of an agent -- scope of agents authority — Liability of principles to third parties — Personal liability of agent — Bailment and pledge.	

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V	Contract of Indemnity and guarantee — Rights of Indemnity holder — Rights of surety — Nature and extent of surety's liabilities	Sale of Goods Act 1930: Definition of Contract of Sale – Formation - Essentials of Contract of Sale - Conditions and Warranties - Transfer of Property – Contracts involving Sea Routes - Sale by Non-owners - Rights and duties of buyer - Rights of an Unpaid Seller
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PERCENTAGE OF SYLLAUS REVISED: 80

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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Syllabus Revision

Semester III: BCOM CA

Course Code/Name: CORPORATE ACCOUNTING-I

Unit	Existing	Changes
I	Issue and forfeiture of shares – Redemption of Preference shares.	Issue of Shares Issue of Shares – Premium - Discount - Forfeiture - Reissue – Pro-rata Allotment Issue of Rights and Bonus Shares - Underwriting of Shares and Debentures – Underwriting Commission - Types of Underwriting.
II	Issue of Debentures – Redemption of debentures – Profits prior to Incorporation.	Issue & Redemption of Preference Shares & Debentures Redemption of Preference Shares– Provisions of Companies Act– Capital Redemption Reserve – Minimum Fresh Issue – Redemption at Par, Premium and Discount. Debentures: Issue and Redemption – Meaning – Methods – In-One lot-in Instalment – Purchase in the Open Market includes Ex Interest and Cum Interest - Sinking Fund Investment Method.
III	Final accounts of corporate businesses – Divisible profit and dividends – bones shares.	Final Accounts Introduction – Final Accounts – Form and Contents of Financial Statements as Per Schedule III of Companies Act 2013 – Part I Form of Balance Sheet – Part II Form of Statement of Profit and Loss – Ascertaining Profit for Managerial Remuneration.
IV	Valuation of goodwill and shares – Holding Company	Valuation of Goodwill & Shares Valuation of Goodwill – Meaning – Need for Valuation of Goodwill – Methods of Valuing Goodwill – Average Profit – Super Profit – Annuity and Capitalisation Method. Valuation of Shares – Need for Valuation of Shares – Methods of Valuation of Shares – Net Assets Method – Yield and Fair Value Methods.

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V	Alteration of share capital and internal Reconstruction - Amalgamation and External Reconstruction.	Indian Accounting Standards International Financial Reporting Standard (IFRS)–Meaning and its Applicability in India - Indian Accounting Standards – Meaning – Objectives – Significance – Procedures for Formulation of Standards – Ind AS – 1 Presentation of Financial Statement, Ind AS – 2 Valuation of Inventories, Ind AS – 7 Cash Flow Statement, Ind AS – 8 Accounting Policies, Changes in Accounting Estimate and Errors, Ind AS – 16 – Property, Plant & Equipment, Ind AS 38 – Intangible Assets Ind AS – 103, Business Combinations Ind AS 110, Consolidated Financial Statement. (Theory Only)
	THEORY 20% & PROBLEMS 80%	

PERCENTAGE OF SYLLAUS REVISED: 60

COURSES FOCUSES ON:

✓	Skill development		Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: III

Board: COMMERCE

Course Code/Name: BUSINESS MATHEMATICS & STATISTICS

Unit	Content
I	Ratio Ratio, Proportion and Variations, Indices and Logarithms.
II	Interest and Annuity Banker's Discount – Simple and Compound Interest - Arithmetic, Geometric and Harmonic Progressions. Annuity - Meaning - Types of Annuity Applications.
III	Business Statistics Measures of Central Tendency Arithmetic Mean, Geometric Mean - Harmonic Mean - Mode and Median – Quartiles – Deciles - Percentiles. Measures of Variation – Range - Quartile Deviation and Mean Deviation - Variance and Standard Deviation & Co-efficient.
IV	Correlation and Regression Correlation - Karl Pearson's Coefficient of Correlation – Spearman's Rank Correlation – Regression Lines and Coefficients.
V	Time Series Analysis and Index Numbers Time Series Analysis : Secular Trend – Seasonal Variation – Cyclical variations - Index Numbers – Aggregative and Relative Index – Chain and Fixed Index – Wholesale Index – Cost of Living Index.

**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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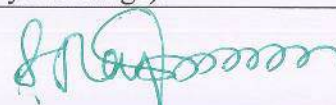
SEMESTER-IV – B.COM CA

Course Code/Name: CORPARATE ACCOUNTING -II

Unit	Existing	Changes
I	Issue and forfeiture of shares – Redemption of Preference shares	Amalgamation, Internal & External Reconstruction Amalgamation – Meaning - Purchase Consideration - Lump sum Method, Net Assets Method, Net Payment Method, Intrinsic Value Method - Types of Methods of Accounting for Amalgamation - The Pooling of Interest Method - The Purchase Method (Excluding Inter-Company Holdings). Internal & External Reconstruction Internal Reconstruction – Conversion of Stock – Increase and Decrease of Capital – Reserve Liability - Accounting Treatment of External Reconstruction
II	Issue of Debentures – Redemption of debentures – Profits prior to Incorporation.	Accounting of Banking Companies Final Statements of Banking Companies (As Per New Provisions) - Non-Performing Assets - Rebate on Bills Discounted- Profit and Loss a/c - Balance Sheet as Per Banking Regulation Act 1949.
III	Final accounts of corporate businesses – Divisible profit and dividends – bonus shares.	Insurance Company Accounts: Meaning of Insurance – Principles – Types – Preparation of Final Accounts of Insurance Companies – Accounts of Life Insurance Business – Accounts of General Insurance Companies -New Format.
IV	Valuation of goodwill and shares – Holding Company.	Consolidated Financial Statements Introduction-Holding & Subsidiary Company-Legal Requirements Relating to Preparation of Accounts -Preparation of Consolidated Balance Sheet (Excluding Inter-Company Holdings).


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V	Alteration of share capital and internal Reconstruction - Amalgamation and External Reconstruction.	Liquidation of Companies Meaning-Modes of Winding Up – Preparation of Statement of Affairs and Statement of Deficiency or Surplus (List H) Order of Payment – Liquidators Remuneration- Liquidator’s Final Statement of Accounts.
	THEORY 20% & PROBLEMS 80%	

PERCENTAGE OF SYLLAUS REVISED: 60
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
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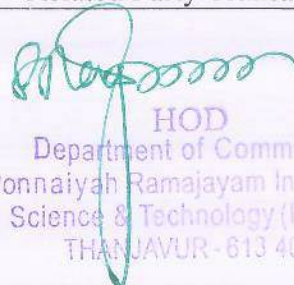
SEMESTER-IV – B.COM CA

Course Code/Name: COMPANY LAW

Unit	Existing	Changes
I	Companies Act – Definition of company – formation – kinds – incorporation – characteristics of company – memorandum of association – alteration – duties of secretary regarding the above.	Introduction to Company law Companies Act 2013 – Definition of a Company, Characteristics of Company – Lifting or Piercing the Corporate Veil – Company Distinguished from Partnership and Limited Liabilities Partnerships – Classification of Companies – Based on Incorporation, Liability, Number of Members, Control.
II	Articles of association – contents – alteration – Prospectus – Statement in lieu of prospectus – Shares – Kinds – allotment – minimum subscription – transfer and transmission of shares – Share warrant – Share certificate – Secretarial duties regarding the above.	Formation of Company Formation of a Company – Promoter – Incorporation Documents e-filing – Memorandum of Association – Contents – Alteration – Legal Effects – Articles of Association – Certificate of Incorporation – Prospectus – Contents – Kinds – Liabilities – Share Capital – Kinds – Issue – Alteration – Dividend – Debentures.
III	Types of secretary – Qualification – appointment – functions – Legal position – Rights – Duties – Liabilities	Meeting Meeting and Resolution – Types – Requisites – Voting & Poll – Quorum – Proxy – Resolution – Ordinary & Special – Audit & Auditors – Qualification, Disqualification, Appointment and Removal of an Auditor -
IV	Directors – Rights – Duties – Powers – Shares qualification – Liabilities.	Management & Administration Management & Administration – Directors – Legal Position – Board of Directors – Appointment/ Removal – Disqualification – Director Identification Number – Directorships – Powers – Duties – Board Committees – Related Party Transactions –


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		Contract by One Person Company – Insider Trading- Managing Director – Manager – Secretarial Audit – Administrative Aspects and Winding Up – National Company Law Tribunal (NCLT) – National Company Law Appellate Tribunal (NCLAT) – Special Courts.
V	Communication pertaining to meetings – Preparation of notices – Agenda – Proxies – Motions Resolutions – Minutes – Duties of the chairman of the meeting.	Winding up Meaning – Modes – Compulsory Winding Up – Voluntary Winding Up – Consequences of Winding Up Order – Powers of Tribunal – Petition for Winding Up – Company Liquidator.

PERCENTAGE OF SYLLAUS REVISED: 60
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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SEMESTER:V

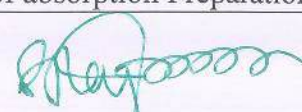
Board: Commerce

Course Code/Name: Cost Accounting I

Unit	Existing	Changes
I	Cost accounting definitions – Functions, Importance, Advantages and Limitations – Relationship between cost and Financial Accounting – Installation of costing system – Cost Unit and Cost Centre – Elements of Cost – Cost sheet – Tender and quotation	Introduction of Cost Accounting Definition-Nature and Scope – Principles of Cost Accounting – Cost Accounting and Financial Accounting - Cost Accounting Vs Management Accounting –Installation of Costing System – Classification of Costs– Cost Centre– Profit Centre
II	Materials cost control – Material Purchases – Storage of Material – Various levels of Stock – Pricing of Materials Issues	Cost Sheet and Methods of Costing Preparation of Cost Sheet - Tenders & Quotations - Reconciliation of Cost and Financial Accounts –Unit Costing-Job Costing.
III	Labour Cost Control – Piece and Time Rates – Incentive Plans – Labour turnover – Idle time – Overheads – Allocation – Apportionment – Re Apportionment and Absorption	Material Costing Material Control – Meaning and Objectives – Purchase of Materials – EOQ –Stores Records – Reorder Levels – ABC Analysis - Issue of Materials –Methods of Issue – FIFO – LIFO – Base Stock Method – Specific Price Method – Simple and Weighted Average Method..
IV	Process Costing (Excluding Inter Process, Equivalent Production – By product– Joint product) and – Operating Costing	Labour Costing Direct Labour and Indirect Labour – Time Keeping – Methods and Calculation of Wage Payments – Time Wages – Piece Wages – Incentives – Different Methods of Incentive Payments - Idle time–Overtime – Labour Turnover - Meaning, Causes and Measurement.
V	Contract Costing – Reconciliation of Cost and Financial Accounting	Overheads Costing Overheads – Definition – Classification – Allocation and Apportionment of Overheads – Basis of Apportionment – Primary and Secondary Distribution - Absorption of Overheads – Methods of absorption Preparation of Overheads


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BOS

	Distribution Statement – Machine Hour Rate – Computation of Machine Hour Rate
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PERCENTAGE OF SYLLAUS REVISED: 70
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Commerce

Semester V: B.Com CA

Course Code/Name: Banking Law & Practice

Unit	Existing	Changes
I	Bank and Banking – Role and importance of Banking – Classification of Commercial Banks – Functions of commercial Banks – Investment Policy of a Commercial Bank – Functions of RBI.	Introduction to Banking History of Banking- Provisions of Banking Regulations Act 1949 - Components of Indian Banking - Indian Banking System-Phases of Development - Banking Structure in India - Payment Banks and Small Banks - Commercial Banking: Definition - Classification of Banks. Banking System - Universal Banking - Commercial Banking functions - Role of Banks in Economic Development. Central Banking: Definition –Need - Principles- Central Banking Vs Commercial Banking - Functions of Central Bank.
II	E – Banking – Forms of E- Banking Automatic Teller Machine (ATMS) – Credit Cards, DebitCards – Types of Credit Cards – Types of Bank Accounts – Types of Deposits – Electronic Funds Transfer.	RBI Establishment – objective - Legal framework – Functions – SBI - Origin and History – Establishment Indian subsidiaries - Foreign subsidiaries -Non-Banking-Subsidiaries-Personal banking International banking-Trade Financing-Correspondent banking - Co-operative banks-Meaning and definition-Features- Co-operative banks vs Commercial banks-Structure.- NBFC-Role of NBFCRBI Regulations-Financial sector reforms-Sukhmoy committee 1985- Narasimham committee I and II-Prudential norms: capital adequacy norms-classification of assets and provisioning – Meaning, Structure of Interest Rates - Short term and Long Term – Impacts of Savings and Borrowings.
III	Special Types of Bank customers – The Paying Banker – The Collecting Banker.	Bank Account Opening – Types of Accounts-FDR-Steps in opening Account-Saving vs Current Account-‘Donatio Mortis Causa’-Passbook-Bank Customer Relationship-Special Types of currents –KYC norms. Bank Lending –Lending Sources-Bank Lending


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		Principles-Forms of lending-Loan evaluation process-securities of lending-Factors influencing bank lending – Negotiable Instruments –Meaning – Characteristics-Types. Crossing –Definition – Objectives-Crossing and negotiability-Consequences of Crossing.
IV	Negotiable Instruments – Characteristics – Parties to Negotiable Instruments – Endorsement –Types of Endorsement.	Endorsement Meaning-Components-Kinds of Endorsements-Cheques payable to fictitious person Endorsement by legal representative –Negotiation bank-effect of endorsement-Rules regarding Endorsement - Paying banker-Banker’s duty-Dishonouring of Cheques-Discharge of paying banks Payments of a crossed cheque payment. Collecting bankers-Statutory protection under section85 - Refusal of cheques Payment. Collecting Banker-Statutory protection under section 131-Collecting bankers’ duty –RBI instruction –Paying Banker Vs Collecting Banker- Customer Grievances-Grievance Redressal –Banking Ombudsman.
V	Bills of exchange and Promissory notes – Cheques and Bank Drafts Crossing of Cheques.	E-Banking Meaning-Services-e-banking and financial services- Initiatives-Opportunities-Internet banking Meaning-Internet banking Vs Traditional Banking-Services-Drawbacks-Frauds in Internet banking. Mobile banking–Anywhere Banking-Any Time Banking-Electronic Mobile Wallets. ATM Evolution -Concept-Features - Types-. Electronic money-Meaning-Categories-Merits of e-money - National Electronic Funds Transfer (NEFT) Real Time Gross Settlement (RTGS) Difference between NEFT & RTGS- Meaning- Steps–Benefits-Monetary policies- final sector reforms- Chakravarthy committee 1985- Narasimham Committee I &II Prudential norms capital adequacy norms- classification of assets & provisions.

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**PERCENTAGE OF SYLLAUS REVISED: 70
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Commerce

Semester V: B.Com CA

Course Code/Name: Income Tax Law & Practice I

Unit	Existing	Changes
I	Basic Concepts – Definitions – Assesses – Person, income, assessment year, previous year, basis of charge: Determination of Residential Status – Incomes exempt from tax under Sections 10,11,12,13 and 13A.	Introduction to Income Tax Introduction to Income Tax – History – Objectives of Taxation - Features of Income Tax – Meaning of Income – Types – Important Definitions Under the Income Tax Act – Assessee – Types – Incomes Exempted under Section 10.
II	Salary: Definition – Salary under section 17 – allowances, perquisites, profit in lieu of salary – deductions under section 16 - computation of salary income.	Residential Status Residential Status – Residential Status of an Individual – Company – HUF – Basic Conditions – Additional Conditions – Incidence of Tax and Residential Status – Problems on Residential Status and Incidence of Tax.
III	House property: Definition, exempted incomes from house property – Annual value – determination of annual value – Let out – Self occupied – Deductions – computation of property income.	Income from Salary Computation of Salary Income – Features of Salary – Allowances – Types of Allowances - Perquisites – Kinds of Perquisites – Types of Provident Fund - Gratuity – Pension – Commutation of Pension – Deduction of Salary - Profits in Lieu of Salary
IV	Profit and Gains of business or profession – definition – charging provisions – deductions – computation of business and professional income	Income from House Property Income from House Property – Basis of Charge – Annual Value – Gross Annual Value, Net Annual Value of Let-out Property, Self-Occupied Property – Amenities – Deductions
V	Capital Gains: Basis of charge – Cost of acquisition, cost of improvement –	Profits and Gains from Business or Profession Income from Business or Profession – Allowable


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Syllabus Revision- New Course

Semester: V-B.Com CA

Board: Commerce

Course Code/Name: Auditing & Corporate Governance

Unit	Content
I	Introduction to Auditing Meaning and Definition of Auditing –Distinction between Auditing and Accounting – Objectives – Advantages and Limitations of Audit – Scope of Audit – Classifications of Audits – Audit of Banking, Insurance, Non-Profit Organizations and Charitable Societies, Trusts, Organizations
II	Audit Procedures and Documentation Audit Planning – Audit Programme – Procedures - Internal Audit - Internal Control – Internal Check – Vouching – Cash and Trade Transactions - Verification and Valuations of Assets and Liabilities
III	Company Auditor Appointment and Removal of Auditors – Rights, Duties and Liabilities of Auditor – Professional Conduct and Ethics in Auditing - Audit Report - Recent Trends in Auditing - Information Systems Audit (ISA) – Impact of Computerization on Audit Approach – Online Computer System Audit – Types of Online Computer Systems – Procedure of Audit under ISA System.
IV	Introduction to Corporate Governance Conceptual Framework of Corporate Governance: Theories & Models, Broad Committees - Corporate Governance Reforms. Major Corporate Scandals in India and Abroad: Common Governance Problems Noticed in various Corporate Failures. Codes & Standards on Corporate Governance
V	Corporate Social Responsibility Concept of CSR, Corporate Philanthropy, Strategic Relationship of CSR with Corporate Sustainability - CSR and Business Ethics, CSR and Corporate Governance - CSR Provisions under the Companies Act, 2013..


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**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Commerce

Semester: V-B.Com CA

Course Code/Name: Financial Management

Unit	Existing	Changes
I	Introduction – Finance and related disciplines – Scope of financial management – Objectives of financial management – Financial Decisions – Organizations of finance function.	Introduction Meaning and Objectives of Financial Management – Functions of Financial Management. Finance – Sources of Financing-Role of Financial Manager in Financial Management- Financial Goals- Profit maximization Vs. Wealth Maximization – Components of Financial Management
II	Cost of capital – Cost of debt – Cost of Preference shares – cost of equity – Cost of retained earnings – Weighted average cost of capital.	Financial Decision Capital Structure – Definition - Meaning- Theories- Factors determining Capital Structure – Various approaches of Capital structure - Cost of Capital – Meaning - Methods - Cost of Equity Capital – Cost of Preference Capital – Cost of Debt – Cost of Retained Earnings – Weighted Average (or) Composite Cost of Capital (WACC) Leverage – Concept – Operating and Financial Leverage on EPS
III	Introduction – Capital structure – Determinants – Theories net income approach – net operating income approach – M.M. Approach – Traditional approach	Investment Decision Capital Budgeting - Meaning - Process – Cash Flow Estimation- Capital Budgeting Appraisal Methods: Traditional Methods - Payback Period – Accounting Rate of Return (ARR). Discounted Cash-flow Methods: Net Present Value (NPV) – Net Terminal Value - Internal Rate of Return – Profitability Index -
IV	Leverages meaning and Types – Significance – Operating leverage – Financial and combined leverage	Dividend Decision Meaning – Dividend Policies – Factors Affecting Dividend Payment – Provisions on Dividend Payment in Company Law – Dividend Models - Walter's Model - Gordon's Model – M&M Model
V	Dividend policy – factors influencing dividend	Working Capital Decision Working Capital - Meaning and Importance –


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	policy – Theories – Relationship with value offirms – Stock dividend – Stock splits.	Factors Influencing Working Capital – Determining -Working Capital Operating Cycle - Management of Current Assets: Inventories, Accounts Receivables and Cash
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**PERCENTAGE OF SYLLAUS REVISED: 50
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: V-B.Com CA

Board: Commerce

Course Code/Name: Indirect Taxation

Unit	Content
I	Introduction to Indirect Tax Concept and Features of Indirect Taxes - Difference between Direct and Indirect Taxes –Special Feature of Indirect Tax Levies – Contribution to Government Revenues – Role of Indirect Taxation – Merits and Demerits of Indirect Taxation – Reforms in Indirect Taxation
II	An Overview of Goods & Service Tax (GST) Introduction of Goods and Service Tax in India–History of GST in India – Constitutional Amendment under Pre–Goods and Service Tax Regime and Transitional Provisions - Goods and Service Tax: Concepts, Meaning, Significance, Dual GST, Features and Benefits. GST Common Portal – Taxes and Duties not Subsumed in GST – Rates of GST in India
III	CGST ACT 2017 & IGST Act Supply – Meaning – Classification – Time of Supply – Valuation – Registration – Voluntary – Compulsory – Input Tax Credit – Eligibility – Reversal – Reverse charge Mechanism – E–Way Bill Returns – IGST Act - Export and Import of Goods and Services– Inter State Vs Intra State Supply – Place of Supply. Role of GSTN in Implementation of GST– Anti Profitereering Rules – Doctrine of Unjust Enrichment– Challenges in Implementation of GST.
IV	Procedures under GST Registration under GST Law, Tax Invoice Credit and Debit Notes, Different GST Returns, Electronic Liability Ledger, Electronic Credit Ledger, Electronic Cash Ledger, Different Assessment under GST, Interest Applicable under GST (Period), Penalty under GST, Various Provisions Regarding E-way Bill in GST, Mechanism of Tax Deducted at Source (TDS) and Tax Collected at Source (TCS), Audit under GST
V	Customs Duty 1962 Custom Duty: Concepts; Territorial Waters - High Seas - Levy of Customs Duty, Types of Custom Duties – Valuation - Baggage Rules & Exemptions


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**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. S. Jayaram
DEAN

School of Commerce and Management
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.

S. Rajasekar
HOD
Department of Commerce
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST),
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Syllabus Revision

Board: Commerce


Semester: VI -B.Com CA

Course Code/Name: Cost Accounting II

Unit	Existing	Changes
I	Cost accounting definitions – Functions, Importance, Advantages and Limitations – Relationship between cost and Financial Accounting – Installation of costing system – Cost Unit and Cost Centre – Elements of Cost – Cost sheet – Tender and quotation	Cost Accounting Standards An Introduction to CAS – Purpose of CAS – Advantages of CAS – Difference between CAS and FAR Regulations – Different Degrees of CAS Coverage – Cost Accounting Standards - Responsibility Accounting and Divisional Performance Measurement.
II	Materials cost control – Material Purchases – Storage of Material – Various levels of Stock – Pricing of Materials Issues	Contract Costing Definition - Features of Contract Costing - Calculation of Profit on Contracts – Cost Plus Contract- Contract Costing and Job Costing - A Comparison -Preparation of Contract A/c.
III	Labour Cost Control – Piece and Time Rates – Incentive Plans – Labour turnover – Idle time –Overheads – Allocation – Apportionment – Re Apportionmentand Absorption.	Process Costing Process Costing – Meaning – Features of Process Costing – Application of Process Costing – Fundamental Principles of Process Costing – Treatment of Loss and Gain : Normal and Abnormal Loss - Abnormal Gain - Joint Products, By Products – Concept of Equivalent Production – Process Accounts - Process Losses and Gains..
IV	Process Costing (Excluding Inter Process, Equivalent Production – By product– Joint product) and – Operating Costing.	Operation Costing Operation Costing – Meaning – Preparation of Operating Cost Sheet – Transport Costing – Power Supply Costing–Hospital Costing– Simple Problems.


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V	Contract Costing – Reconciliation of Cost and Financial Accounting	Standard Costing Definition – Objectives – Advantages – Standard Cost and Estimated Cost – Installation of Standard Costing – Variance Analysis – Material, Labour, Overhead, and Sales Variances – Calculation of Variances
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PERCENTAGE OF SYLLAUS REVISED: 60
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Commerce

Semester: VI -B.Com CA

Course Code/Name: Management Accounting

Unit	Existing	Changes
I	Definition of management accounting – Nature, scope, objectives, Functions of management accounting –Management Accounting and Financial Accounting Management Accounting and Cost Accounting – Advantages & Limitations of Management Accounting	Introduction to Management Accounting Management Accounting – Meaning – Scope – Importance- Limitations - Management Accounting Vs Cost Accounting – Management Accounting Vs Financial Accounting
II	Financial Statement Analysis – Comparative statement – Common size statement – Trendpercentages – Ratio Analysis	Financial Statement Analysis Analysis and Interpretation of Financial Statements – Nature and Significance – Types of Financial Analysis – Tools of Analysis – Comparative Statements – Common Size Statement – Trend Analysis. Ratio Analysis: Meaning – Advantages – Limitations – Types of Ratios – Liquidity Ratios – Profitability Ratios - Turnover Ratios – Capital Structure Ratios – Leverage Ratios - Preparation of Financial Statements from Ratios.
III	Fund Flow Analysis and Cash Flow Analysis	Fund Flow Analysis & Cash Flow Analysis Introduction, Meaning of Funds Flow Statement- Ascertainment of Flow of Funds -Technique of Preparing Funds Flow Statement- Schedule of Changes in Working Capital-Adjusted Profit and Loss Account - Preparation of Funds Flow Statement Cash Flow Statements: Meaning – Advantages – Limitations – Preparation of Cash Flow Statement as per AS 3 – Types of Cash Flows - Operating, Financing and Investing Cash Flows
IV	Marginal costing and Break – Even analysis – Budget and budgetary controls – Classification of budgets	Budgetary Control Budgetary Control: Meaning – Preparation of Various Budgets – Cash Budget - Flexible Budget– Production Budget – Sales Budget..

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V	Standard costing and variance analysis, Capital budgeting – Importance – Techniques of Capital budgeting.	Marginal Costing: Meaning - Features – Fixed Cost, Variable Cost and Semi Variable Cost- Contribution- Marginal Cost Equation- P/V Ratio - Break Even Point - Margin of Safety – Cost- Volume Profits Analysis- Break Even Point – Decision Making: Selection of a Product Mix – Make or Buy Decision – Discontinuance of a product line – Change or Status quo – Limiting Factors – Exploring New Markets
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PERCENTAGE OF SYLLAUS REVISED: 70
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Commerce

Semester: VI -B.Com CA

Course Code/Name: Income Tax Law & Practice II

Unit	Existing	Changes
I	Basic Concepts – Definitions – Assesses – Person, income, assessment year, previous year, basis of charge: Determination of Residential Status – Incomes exempt from tax under Sections 10,11,12,13 and 13A.	Capital Gains Capital Gains – Kinds of Capital Assets – Computation of Capital Gains – Exemption under Section 54, 54B, 54D, 54EC, 54F, 54GA
II	Salary: Definition – Salary under section 17 – allowances, perquisites, profit in lieu of salary – deductions under section 16 - computation of salary income.	Income From Other Sources Income from Other Sources – Income Chargeable to Tax under the Head Income from Other Sources – Procedures for Computing Income from Other Sources – Deductions Allowed – Deduction not Allowed – Problems on Computation of Income from Other Sources
III	House property: Definition, exempted incomes from house property – Annual value – determination of annual value – Let out – Self occupied – Deductions – computation of property income.	Set Off and Carry Forward of Losses and Deductions From Gross Total Income Provisions for Set-off and Carry Forward of Losses (Simple Problems). Deductions U/S 80C, 80CC, 80CCB, 80CCC, 80CCD, 80CCE, 80D, 80DD, 80DDB, 80E, 80EE, 80EEA, 80EEB, 80G, 80GG, 80GGA, 80TTA, 80TTB, and 80U only
IV	Profit and Gains of business or profession – definition – charging provisions – deductions – computation of business and professional income	Assessment of Individuals Assessment: Meaning and Types, Computation of Total Income and Tax Liability of an Individuals (simple problems in case of Income from salaries, HP and Profits and Gains – computed income may be given).
V	Capital Gains: Basis of charge – Cost of acquisition, cost of improvement – exempted capital gain – computation of capital gain –	Income Tax Authorities Administration of Income Tax Act – Income Tax Authorities – Powers of CBDT – Powers of

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Income from other sources – Chargeability – deductions – Computation of Income under other sources	Income – Tax Officers - Procedures for Assessment – Filing of Return – Due Dates of Filing – Voluntary Filing – Return of Loss – Related Return – Defective Return – Signing of Return – Permanent Account Number (PAN)
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PERCENTAGE OF SYLLAUS REVISED: 60
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: VI-B.Com CA

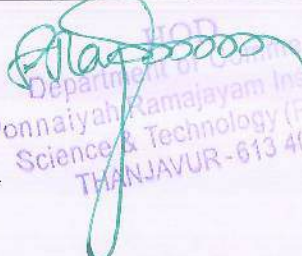
Board: Commerce

Course Code/Name: Entrepreneurial Development

Unit	Content
I	Introduction to Entrepreneur Meaning of Entrepreneurship – Characteristics of Entrepreneurship – Types of Entrepreneurship – Self Employment – Difference between Entrepreneurship and Employment – Meaning of Entrepreneur – Traits – Classification – Functions – Entrepreneurial Scenario in India.
II	Design Thinking Idea Generation – Identification of Business Opportunities – Design Thinking Process – Creativity – Invention – Innovation – Differences – Value Addition – Concept and Types – Tools and Techniques of Generating an Idea – Turning Idea into Business Opportunity
III	Setting Up an Enterprise Process of Setting Up an Enterprise – Forms of an Enterprise – Sole Proprietorship – Partnership – Limited Liability Partnership Firm – Joint Stock Company – One Man partnership – Choice of Form of an Enterprise – Feasibility Study – Marketing, Technical, Financial, Commercial and Economical
IV	Business Model Canvas and Formulation of Project Report Introduction – Contents of Project Report – Project Description – Market Survey – Fund Requirement – Legal Compliance of Setting Up of an Enterprise – Registration – Source of Funds – Modern Sources of Funds.
V	MSME's and Support Institutions Government Schemes and Women Entrepreneurship – Importance of MSME for Economic Growth – MSME – Definition – Role of Government Organizations in Entrepreneurship Development – MSME DI – DIC – Khadi and Village Industries Commission – NSIC – NABARD, SICVI, SFC, SDC, EDII, EPCCB. Industrial Estates – Government Schemes – Prime Minister Employment Generation Programme – Women Entrepreneurship in India


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**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: VI -B.Com CA


Board: Commerce

Course Code/Name: Human Resource Management

Unit	Content
I	Introduction to HRM Definition of HRM, Objectives – Importance – Nature- Scope, Role and Qualities of a HR Manager - Human Resource Planning - Meaning, Definition, Importance, Factors Affecting HRP, Process Involved in Human Resource Planning. Human Resource Information System (HRIS) - Job Analysis, Need for Job Analysis, Steps in Job Analysis, Job Description and Specification
II	Strategic HRM Definition of Strategy, Strategic Human Resource Management (SHRM), Importance of SHRM, Difference between Traditional and Strategic Human Resource Management, “Best Fit” Approach Vs. Best Practices of SHRM, Role of HR Strategy & Practices in National, Sectorial and Organizational Context, Investment Perspective of SHRM, Porter’s 5 Ps Model
III	Industrial Relations Introduction to Industrial Relations - Employee Grievances Concept, Causes & Grievance Redressal Mechanism Discipline- Concept, Aspects of Discipline & Disciplinary Procedure - Trade Unions Act 1926 - Industrial Disputes Act 1947
IV	Organizational Development Collective Bargaining Organization Climate – Organization Change – Organizational Development: Definition, Meaning of Organizational Development. - Collective Bargaining- Essentials of Effective Collective Bargaining
V	Employee welfare Employee Welfare: Meaning, Objectives, Philosophy, Scope, Limitations, Types of Employee Welfare, Statutory and Non-Statutory Welfare Measures, and Labour Welfare Theories- Social Security, Health, Retirement & Other Benefits.


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**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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M.COM Syllabus Revision- New Course

Board: Commerce

Semester: I

Course Code/Name: Business Finance

Unit	Content
I	Introduction to Business Finance and Time vale of money Business Finance: Meaning, Objectives, Scope -Time Value of money: Meaning, Causes – Compounding – Discounting – Sinking Fund Deposit Factor – Capital Recovery Factor – Multiple Compounding – Effective rate of interest – Doubling period (Rule of 69 and Rule of 72) – Practical problems.
II	Risk Management Risk and Uncertainty: Meaning – Sources of Risk – Measures of Risk – Measurement of Return – General pattern of Risk and Return – Criteria for evaluating proposals to minimise Risk (Single Asset and Portfolio) – Methods of Risk Management – Hedging currency risk.
III	Startup Financing and Leasing Startup Financing: Meaning, Sources, Modes (Bootstrapping, Angel investors, Venture capital fund) - Leasing: Meaning – Types of Lease Agreements – Advantages and Disadvantages of Leasing – Financial evaluation from the perspective of Lessor and Lessee.
IV	Cash, Receivable and Inventory Management Cash Management: Meaning, Objectives and Importance – Cash Cycle – Minimum Operating Cash – Safety level of cash – Optimum cash balance - Receivable Management: Meaning – Credit policy – Controlling receivables: Debt collection period, Ageing schedule, Factoring – Evaluating investment in accounts receivable - Inventory Management: Meaning and Objectives – EOQ with price breaks – ABC Analysis.
V	Multi National Capital Budgeting Multi National Capital Budgeting: Meaning, Steps involved, Complexities, Factors to be considered – International sources of finance – Techniques to evaluate multi-national capital expenditure proposals: Discounted Pay Back Period, NPV, Profitability Index, Net Profitability Index and Internal Rate of Return – Capital rationing -Techniques of Risk analysis in Capital Budgeting.


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✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: I

Board: Commerce

Course Code/Name: Digital Marketing

Unit	Content
I	Introduction to Digital Marketing Digital Marketing – Transition from traditional to digital marketing – Rise of internet – Growth of e-concepts – Growth of e-business to advanced e-commerce – Emergence of digital marketing as a tool – Digital marketing channels – Digital marketing applications, benefits and limitations – Factors for success of digital marketing – Emerging opportunities for digital marketing professionals.
II	Online marketing mix Online marketing mix – E-product – E-promotion – E-price – E-place – Consumer segmentation – Targeting – Positioning – Consumers and online shopping issues – Website characteristics affecting online purchase decisions – Distribution and implication on online marketing mix decisions.
III	Digital media channels Digital media channels – Search engine marketing – ePR – Affiliate marketing – Interactive display advertising – Opt-in-email marketing and mobile text messaging, Invasive marketing – Campaign management using – Facebook, Twitter, Corporate Blogs – Advantages and disadvantages of digital media channels – Metaverse marketing.
IV	Online consumer behavior Online consumer behavior – Cultural implications of key website characteristics – Dynamics of online consumer visit – Models of website visits – Web and consumer decision making process – Data base marketing – Electronic consumer relationship management – Goals – Process – Benefits – Role – Next generation CRM.
V	Analytics and Gamification Digital Analytics – Concept – Measurement framework – Demystifying web data - Owned social metrics – Measurement metrics for Facebook, Twitter, YouTube, Slide Share, Pinterest, Instagram, Snapchat and LinkedIn – Earned social media metrics - Digital brand analysis – Meaning – Benefits – Components – Brand share dimensions – Brand audience dimensions – Market influence analytics – Consumer generated media and opinion leaders – Peer review – Word of mouth – Influence analytics – Mining consumer generated media – Gamification and game based marketing – Benefits – Consumer motivation for playing online games.

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Syllabus Revision- New Course

Board: Commerce

Semester: I

Course Code/Name: Banking and Insurance

Unit	Content
I	Introduction to Banking Banking: Brief History of Banking - Rapid Transformation in Banking: Customer Shift - Fintech Overview - Fintech Outlook - The Financial Disruptors - Digital Financial Revolution - New Era of Banking. Digital Banking – Electronic Payment Systems–Electronic Fund Transfer System – Electronic Credit and Debit Clearing – NEFT – RTGS –VSAT–SFMS–SWIFT.
II	Contemporary Developments in Banking Distributed Ledger Technology – Blockchain: Meaning - Structure of Block Chain - Types of Block Chain - Differences between DLT and Block chain - Benefits of Blockchain and DLT - Unlocking the potential of Block chain – Crypto currencies, Central Bank Digital Currency (CBDC) - Role of DLT in financial services - AI in Banking: Future of AI in Banking - Applications of AI in Banking - Importance of AI in banking - Banking reimagined with AI. Cloud banking - Meaning - Benefits in switching to Cloud Banking.
III	Indian Insurance Market History of Insurance in India – Definition and Functions of Insurance – Insurance Contract – Indian Insurance Market – Reforms in Insurance Sector – Insurance Organisation – Insurance organisation structure. Insurance Intermediaries: Insurance Broker – Insurance Agent - Surveyors and Loss Assessors - Third Party Administrators (Health Services) – Procedures - Code of Conduct.
IV	Customer Services in Insurance Customer Service in Insurance – Quality of Service - Role of Insurance Agents in Customer Service-Agent’s Communication and Customer Service –Ethical Behaviour in Insurance – Grievance Redressal System in Insurance Sector – Integrated Grievance Management System- Insurance Ombudsman - Insurance Regulatory and Development Authority of India Act (IRDA) – Regulations and Guidelines.
V	Risk Management Risk Management and Control in banking and insurance industries – Methods of Risk Management – Risk Management by Individuals and Corporations – Tools for Controlling Risk.

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	Gender Sensitization	✓	Human Values
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M.Com Syllabus Revision

Semester I:


Board: Commerce

Course Code/Name: Security Analysis and Portfolio Management

Unit	Existing	Changes
I	Investment –Meaning- Nature and Scope – objectives Speculation Gambling – investment process – Financial System in India – Risk & Return – Measurement of Risk & Return - Nature-scope-Elements of Investment - Approaches to investment analysis - Securities - types - Features.	Investment and Portfolio Management Type of Investors – Investment Avenues – Factors influencing the investment choice – Portfolio Management: Meaning and significance, Active vs. Passive portfolio management - Strategic vs. Tactical asset allocation - Factors Affecting Investment Decisions in Portfolio Management.
II	Investment alternatives and strategies: Financial investment - Non financial investment - Inbound and outbound investments – Sources of Investment Information - valuation of fixed income securities and variable income securities (excluding Derivatives).	Valuation of Securities Bond: Introduction – Reasons for issuing Bonds –Features of Bond – Types of Bonds – Determinants of bond safety – Bond Prices, Yields and Interest Rates – Measuring Price Volatility of Bonds – Macaulay Duration and Modified Duration - Preference Shares: Introduction – Features of Preference Shares – Preference Shares Yield – Holding Period Return – Yield to Call –Concept of Present Value – Equity Share Valuation Models.
III	Fundamental Analysis: Economic – Industry and company analysis – Sources of information for analysis	Fundamental Analysis and Technical Analysis Technical Analysis: Meaning – Assumptions – Pros and cons of technical analysis – Differences between fundamental analysis and technical analysis – Dow Theory – Types of Charts – Chart Patterns – Trend Analysis – Support Line and Resistance Line – Volume Analysis – Indicators and Oscillators – Simple Moving Average – Exponential Moving Average – Relative Strength Index – Bollinger Band – Elliott Wave Theory.


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IV	Technical Analysis – Types of charts – Dow Theory, Elliott wave theory, Odd-lot Theory, Breadth of Market, Relative Strength Analysis – Moving Average analysis - Efficient Market Hypothesis.	Efficient Market Hypothesis Efficient Market Hypothesis – Markowitz Model, Arbitrage Pricing Theory – Sharpe’s Single index portfolio selection method – Capital Asset Pricing Model (CAPM).
V	Portfolio analysis & Management: Portfolio risk and return – Diversification - Markowitz model Sharpe model: Single index model– CAPM – Arbitrage pricing theory.	Portfolio Performance Evaluation Portfolio Performance Evaluation – Meaning - Need for Evaluation - Methods of calculating Portfolio return - Sharpe’s Ratio - Treynor’s Ratio - Jensen’s Differential Returns - Portfolio Revision - Need for Portfolio Revision - Formula Plans.

**PERCENTAGE OF SYLLAUS REVISED: 60
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: I

Board: Commerce

Course Code/Name: Operations Research

Unit	Content
I	Introduction and Linear Programming Problem Introduction to Operations Research – Uses and Limitations – Linear Programming Problem: Formulation, Solving LPP: Graphical method, Simplex method, the Big-M Method.
II	Transportation and Assignment Problems Transportation problem: Introduction – Assumptions – Formulation of Transportation models – Basic feasible solution (North-West Corner Method, Least Cost Method, Vogel's Approximation Method) – Optimal solution (Stepping-Stone Method, Modified Distribution Method) – Degeneracy in Transportation problem. Assignment Problem: Introduction – Comparison with the Transportation problem – Formulation of assignment problems - The Hungarian method of solution.
III	Sequencing and Game Theory Sequencing problem: Introduction – Assumptions – Processing of n jobs through one machine – Processing n jobs through two machines – Processing of n jobs through three machines. Game Theory: Introduction – Rules for Games theory – Two person zero sum game without saddle point – Mixed strategies (2xn games, mx2 games) – Graphical method (2xn, mx2 games).
IV	Replacement and Network Analysis Replacement: Introduction – Individual replacement problems – Group replacement problems. Network Analysis: PERT and CPM.
V	Decision Tree Analysis and Queuing Theory Decision Tree analysis – Queuing: Introduction – Applications of queuing models, Waiting time and idle time costs – Single channel Poisson arrivals with Exponential Service, Infinite population model.

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✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Board: Commerce

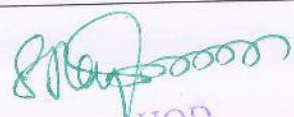
Semester: I

Course Code/Name: Labour Laws

Unit	Content
I	Introduction and The Trade Unions Act, 1926 Labour legislations: Origin – Nature – Scope – Need – Objectives – Principles – Labour policy and its special features – Constitution as the basis for labour legislation – The Trade Unions Act, 1926: Definition – Objectives – Deficiencies – Registration of trade union – Cancellation of registration and appeal – Duties and obligations – Rights and privileges – Dissolution.
II	The Factories Act, 1948 and Equal Remuneration Act, 1976 The Factories Act, 1948: Objects – Definition – Licensing and Registration of factories – Inspecting staff – Health, safety and welfare measures – Provisions relating to hazardous processes – Working hours – Holidays – Annual leave – Employment of women and young persons. Equal Remuneration Act – Payment of remuneration at equal rates to men and women workers – Advisory committee – Offences and penalties.
III	The Workmen's Compensation Act, 1923 and The Employees' State Insurance Act, 1948 The Workmen's Compensation Act, 1923: Definitions – Objectives – Disablement – Employer's liability for compensation – Amount of compensation – Disbursement of compensation – Notice and claims – Penalties – The Employees' State Insurance Act 1948: Objects – Definitions – Administration of ESI Scheme – ESI Fund – ESI Corporation – Medical benefit council – Benefits under the Act – ESI court.
IV	The Payment of Wages Act, 1936 and The Minimum Wages Act, 1948 The Payment of Wages Act, 1936: Object and Scope – Definition – Procedure regarding payment of wages – Deduction from wages – Mode of payment of wages. The Minimum Wages Act, 1948: Objects - Scope – Definition – Items to be included in the minimum wages – Fixation and revision of minimum wages – Norms to be followed in the payments of minimum wages.
V	The Provident Fund and Miscellaneous Provision Act, 1952, The Payment of


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Gratuity Act, 1972 and The Payment of Bonus Act, 1965 Provident Fund and Miscellaneous Provision Act, 1952: Definitions – Scope – Nature – Objects – Various schemes – The Payment of Gratuity Act, 1972: Definitions – Scope – Conditions and circumstances of payment - Wages for computing gratuity – Maximum gratuity – Nomination – Penalties – The Payment of Bonus Act: Applicability of the Act – Eligibility and rate of Bonus – Allocable surplus and available surplus - Set and set off – Offences and penalties.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
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Syllabus Revision

Semester I:

Board: Commerce

Course Code/Name: Strategic Human Resource Management

Unit	Existing	Changes
I	Meaning – Nature and scope, characteristics – Functions – Objectives of organization of Human Resource department – HRM- Revaluation and Development of HRM – Role Qualification and qualities of H.R.Manager –HRM- Human Resource Planning.	Introduction to SHRM SHRM - Meaning, Features, Evolution, Objectives, Advantages, Barriers to SHRM, SHRM v/s Traditional HRM, Steps in SHRM, Roles in SHRM: Top Management, Front - line Management, HR - Changing Role of HR Professionals.
II	Recruitment – Sources and Techniques of Recruitment - Selection , Placement and Induction – Interviews –Training –Principal Methods- Steps - Evaluation of Training Performance.	Models of SHRM Models of SHRM – High Performance Working Model, High Commitment Management Model, High Involvement Management Model - HR Environment – Environmental trends and HR Challenges - Linking SHRM and Business Performance.
III	Human Resource Development (HRD) – Management Development programmes – performance Appraisal – Counseling – Managerial Appraisal.	Strategic Planning and Compensation Resourcing Strategy: Meaning and Objectives - Strategic HR Planning: Meaning, Advantages, Interaction between Strategic Planning and HRP, Managing HR Surplus and Shortages, Strategic Recruitment and Selection: Meaning and Need - Strategic Human Resource Development: Meaning, Advantages and Process - Strategic Compensation as a Competitive Advantage - Rewards Strategies: Meaning, Importance - Employee Relations Strategy, Retention Strategies, Strategies for Enhancing Employee Work Performance
IV	Promotion – Transfer – demotion and discipline – Compensation – Career Planning –Career Development – Absenteeism – Managing change – Resistance and Approaches to Organization change.	Human Resource Policies Human Resource Policies – Meaning, Features, Purpose of HR Policies, Process of Developing HR Policies, Factors affecting HR Policies, Areas of HR Policies in Organisation, Requisites of Sound HR Policies – Recruitment, Selection, Training and Development, Performance Appraisal,

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		Compensation, Promotion, Outsourcing, Retrenchment, Barriers to Effective Implementation of HR Policies and Ways to Overcome these Barriers.
V	Job Evaluation – Advantages and Problems of job evaluation - Wages and Salary Administration Bonus – Fringe Benefits – Motivation and Motivation theories – Leadership – Morale – Communication Job Satisfaction	Latest trends in Strategic HRM Mentoring - Employee Engagement – Meaning, Factors Influencing Employee Engagement, Strategies for Enhancing Employee Engagement - Competency based HRM: Meaning, Types of Competencies and Benefits of Competencies for Effective Execution of HRM Functions - Human Capital Management: Meaning and Role - New Approaches to Recruitment – Employer Branding.

PERCENTAGE OF SYLLAUS REVISED: 80
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: II

Board: Commerce

Course Code/Name: Principles and Practice of Insurance

Unit	Content
I	Origin and Development of Insurance: Introduction - Concepts of Risks and Uncertainty – Nature of Insurance – Functions of Insurance – Need for Insurance – Enactment of Insurance Act, 1938.
II	Basic Principle of Insurance: Introduction – Utmost Good Faith – Insurable Interest – Indemnity – Corollaries of Indemnity (Contribution and Subrogation) – Proximate Cause – Material Facts to be disclosed – Caveat Emptor – Essentials of Law of contract – Nomination and Assignment.
III	Life Insurance: Introduction - Present Organizational set-up of Insurance Companies in India – L.I.C. and Private Companies with foreign joint ventures - selling Insurance through Agents and Banks - Objectives of Life Insurance – Protection and Investment - Different types of Life Insurance Policies – Chief characteristics and similarity.
IV	Procedure for taking a policy: Introduction - Selection of the Plan - Consultation of Premium tables - Filling up of Proposal Form - Document regarding proof of age - Important clauses of the Policy – eg. Suicide Clause – Nomination.
V	General Insurance : Introduction - Relevance of General Insurance to Business - History of General Insurance in India - Items which could be insured - Fire Insurance – Features - Types of Policies - Payment of Claims and Documents required.

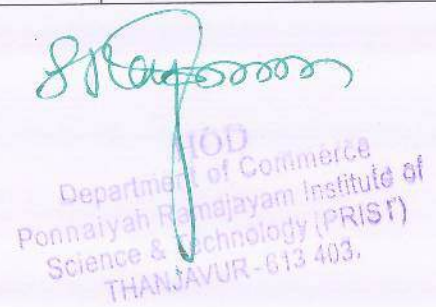
PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUSES ON:

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Syllabus Revision- New Course

Semester: II

Board: Commerce

Course Code/Name: Strategic Cost Management

Unit	Content
I	Introduction to Strategic Cost Management Introduction to Strategic Cost Management (SCM) – Need for SCM – Differences between SCM and Traditional Cost Management - Value Chain Analysis: Meaning and steps - Quality Cost Management: Meaning of Quality and Quality Management – Cost of Quality – Indian Cost Accounting Standard 21 on Quality Control - Introduction to Lean System – Benefits of Lean System – Just in Time (JIT) – Kaizen Costing.
II	Cost Control and Reduction Cost Management Techniques: Cost Control: Meaning and Prerequisites - Cost Reduction: Meaning and Scope – Differences between Cost control and cost reduction - Pareto Analysis: Meaning, importance and applications - Target Costing: Meaning, steps and Principles – Life Cycle Costing: Meaning, Strategies for each stage of product life cycle, Benefits – Learning Curve: Meaning, Learning curve ratio and applications.
III	Activity Based Cost Management Activity Based Cost Management: Concept, Purpose, Stages, Benefits, Relevance in Decisionmaking and its Application in Budgeting – Practical problems.
IV	Transfer Pricing Transfer Pricing: Meaning, Benefits, Methods: Pricing based on cost, Market price on transfer price, Negotiated pricing and Pricing based on opportunity costs – Practical Problems.
V	Cost Management in Agriculture and IT sector Agriculture Sector: Features, Cost Structure, Cost Management, Tools to measure the performance, Minimum Support Price and International Perspective – Information Technology Sector: Features, Cost Structure, Cost Management and International Perspective.


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✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
THANJAVUR - 613 403.

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BOS

Syllabus Revision

Semester II: M.Com

Board: Commerce

Course Code/Name: Corporate Accounting

Unit	Existing	Changes
I	<u>Self study unit:</u> Human Resource Accounting – Inflation Accounting – Government Accounting.	Issue of Shares and Final Accounts of Companies Issue of Shares: ESOPs - ESPS - Sweat Equity Shares - Book Building- Buy-back of Shares - Conversion of debentures into shares - Final accounts of Companies as per Schedule III of the Companies Act, 2013 – Managerial remuneration.
II	Holding companies accounting – consolidated Balance sheet of holding companies	Insurance Company Accounts Insurance Company Accounts: Types of Insurance - Final accounts of life assurance Companies- Ascertainment of profit- Valuation Balance Sheet-Final accounts of Fire, Marine and miscellaneous Insurance Companies.
III	Bank Accounts (New Format) – profit and Loss account – Balance sheet as per the Guidelines of RBI – classification of advances- Provision for advances.	Consolidated financial statements Consolidated financial statements as per AS 21: Consolidated Profit and Loss Account– Minority interest – Cost of control – Capitalreserve – Inter-company holdings –Preparation of consolidated Balance Sheet.
IV	Insurance companies Accounts – New Format- Life Insurance Revenue accounts with schedullessurplus and valuation balance sheet – Fire and Marine Revenue accounts with schedules.	Contemporary Accounting Methods Accounting for price level changes – Social responsibility accounting – Human resource accounting - Forensic Accounting.
V	Double Accounts system (or) Accounts of Electricity companies and public utilities.	Financial reporting Financial reporting: Meaning, Objectives, Characteristics – Indian Accounting Standards (AS 5, AS 10, AS 19, AS 20) – Corporate Social Responsibility: Meaning, Key provisions of Companies Act, 2013, Accounting for CSR expenditure, Reporting of CSR, Presentation and disclosure in the financial statements.


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PERCENTAGE OF SYLLAUS REVISED: 60
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: II

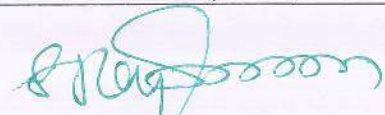
Board: Commerce

Course Code/Name: Setting up of Business Entities

Unit	Content
I	Startups in India Types of business organisations –Factors governing selection of an organisation - Startups – Evolution – Definition of a Startup – Startup landscape in India – Startup India policy – Funding support and incentives – Indian states with Startup policies – Exemptions for startups – Life cycle of a Startup – Important points for Startups – Financing options available for Startups – Equity financing – Debt financing – Venture capital financing – IPO – Crowd funding – Incubators - Mudra banks –Successful Startups in India.
II	Not-for-Profit Organisations Formation and registration of NGOs – Section 8 Company – Definition – Features – Exemptions – Requirements of Section 8 Company – Application for incorporation – Trust: Objectives of a trust – Persons who can create a trust – Differences between a public and private trust – Exemptions available to trusts – Formation of a trust - Trust deed –Society – Advantages – Disadvantages – Formation of a society – Tax exemption to NGOs.
III	Limited Liability Partnership and Joint Venture Limited Liability Partnership: Definition – Nature and characteristics – Advantages and disadvantages – Procedure for incorporation – LLP agreement – Annual compliances of LLP-Business collaboration: Definition – Types –Joint venture: Advantages and disadvantages – Types – Joint venture agreement - Successful joint ventures in India– Special Purpose Vehicle – Meaning – Benefits – Formation.
IV	Registration and Licenses Registration and Licenses: Introduction – Business entity registration – Mandatory registration – PAN – Significance – Application and registration of PAN – Linking of PAN with Aadhar –TAN – Persons liable to apply for TAN – Relevance of TAN – Procedure to apply for TAN –GST: Procedure for registration – Registration under Shops and Establishment Act –MSME registration – Clearance from Pollution Control Board – FSSAI registration and license – Trade mark, Patent and Design registration.
V	Environmental Legislations in India Geographical Indication of Goods (Registration and Protection) Act, 1999:


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Objectives, Salient Features - The Environmental Protection Act, 1986: Prevention, control and abatement of environmental pollution - The Water (Prevention And Control of Pollution) Act, 1974: The Central and State Boards for Prevention and Control of Water Pollution - Powers and Functions of Boards - Prevention and Control of Water Pollution - Penalties and Procedure- The Air (Prevention and Control of Pollution) Act, 1981: Central and State Boards for The Prevention and Control of Air Pollution - Powers And Functions - Prevention and Control of Air Pollution - Penalties and Procedure.

PERCENTAGE OF SYLLAUS REVISED: 100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: II

Board: Commerce

Course Code/Name: Business Ethics and Corporate Sustainability

Unit	Content
I	Introduction to Business Ethics Business Ethics- Meaning and Definition of Business Ethics - Nature of Business Ethics - Role and importance of Business Ethics and values in Business - Causes of unethical behaviour - Ethical issues.
II	Ethical Theories Ethical Decision Making -Decision Making (Normal Dilemmas and problems) - Application of Ethical Theories in Business - Traditional Ethical Theories - Utilitarianism, - Ethical Egoism - Ethics of Duties - Normative Theories of Business Ethics - Stakeholder Theory - Stockholder Theory - Lawrence Kohlberg's Theory Model Development.
III	Moral Issues in Business Moral Issues in Business - Importance of moral issues and reasoning - Whistle Blowing- Kinds of Whistle Blowing - Ethical issues in functional areas of business. Marketing and Advertising - Truth in Advertising- Manipulation – Coercion-Trade Secrets- Corporate disclosure-Insider trading. Finance -Fairness' and efficiency in Financial Market – Greenmail-Golden Parachute. HR: Workers Rights and Duties - Work place Safety - Sexual Harassment-Equal Employment Opportunity- Preferential hiring. Environmental Protection - Safety and acceptable risk- Environmental Harm, Pollution and its Control– Product Safety and Corporate Liability.
IV	Corporate Sustainability Corporate Sustainability - Concepts of sustainability - Social, Environmental and Economic dimensions -Sustainability in a business context. Principles of Sustainable Development: History and emergence of the concept of Sustainable Development - Definitions, Environmental issues and crisis, Resource


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	degradation, Greenhouse gases, Desertification, Social insecurity, Industrialization, Globalization and Environment.
V	Sustainability Reporting Sustainability Reporting - Investors, customers, government and media- Disclosing sustainability information – report and website - Transparency and Accountability - One Report movement – Financial and non-financial together - Triple bottom line concept for Sustainable Business - Sustainability Reporting: Flavour of GRI, BRR, BRSR.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
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Syllabus Revision- New Course

Semester: II

Board: Commerce

Course Code/Name: Audit and Due Diligence

Unit	Content
I	Introduction to Audit Audit: Meaning – Types of Audit: Corporate Governance Audit: Meaning and scope; Corporate Social Responsibility Audit: Meaning and objectives; Insider Trading Audit: An introduction – Labour Law audit: Meaning, process and benefits – Environment Audit: Meaning and Need – Social Audit: Meaning and implications – Introduction to Takeover Audit.
II	Secretarial Audit Secretarial Audit: Meaning – Need – Applicability of Secretarial Audit under Companies Act, 2013 and SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015 – The process of Secretarial Audit – Scope and Benefits of Secretarial Audit.
III	Introduction to Due Diligence Due diligence: Meaning, Need, Objectives and Scope – Factors to be considered while conducting due diligence – Process of due diligence – Techniques of due diligence.
IV	Types of Due Diligence Types of Due Diligence: Operational, Strategic, Financial, Technical, Legal, Management, Technical, Environmental, Human Resource.
V	Due Diligence for Take overs and Due Diligence Report Due diligence for Mergers and Amalgamation: Introduction and Process, Preparation of scheme of amalgamation - Due diligence for take overs - Guidance on diligence reporting – Format of diligence report.

PERCENTAGE OF SYLLAUS REVISED: 100

COURSES FOCUSES ON:

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Syllabus Revision- New Course

Semester: II

Board: Commerce

Course Code/Name: RURAL AND AGRICULTURAL MARKETING

Unit	Content
I	Introduction to Rural marketing Rural marketing – Meaning – Definition – Concept and nature of rural marketing – Taxonomy of rural markets – Urban vs Rural marketing – Rural marketing environment – Becoming a successful rural marketer.
II	Rural buyer behaviour Rural buyer behaviour – Aspects of rural buyer behaviour – Rural consumer decision making process – Environmental factors affecting rural consumers – Buyer characteristics and innovation adoption – Rural STP approach – Guidelines for effective segmentation and emerging rural market segments
III	Rural product strategy and pricing Rural product strategy – Rural product classification and decisions – Product innovation strategies – Customer value strategies – Rural branding and packaging strategies – Role of Agricultural Price Commission in India(APC) - Introduction to APC - Basic objectives of the Commission - Determination of Minimum Support Price (MSP) - Non price measures - Minimum support price of selected commodities - Benefit to the farmers - Rationale of support pricing - Limitations of MSP
IV	Food processing industry infrastructure in India Food processing industry infrastructure in India - Meaning of processing - Advantages of food processing - Processing of agricultural commodities (Wheat, Paddy, Pulses and Oilseeds) – Importance of cold chains - Rural distribution strategy – Rural distribution and logistics – Direct vs Indirect marketing – Organised rural retailing – Types of retail outlets – Rural malls – e-tailing and training for rural retailers – Rural supply chain management – ITC e-choupal – Rural promotion mix – Marketing communication challenge in rural markets
V	Cooperative marketing Cooperative marketing: Meaning - Role of cooperatives - Structure of cooperative marketing societies - Types of Co-operative marketing societies – Membership – Functioning – Agri export zones – Small Farmers Agri Business Consortium - eNAM – Tamil Nadu State Agricultural Marketing Board.


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COURSES FOCUSES ON:**

✓	Skill development		Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
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Syllabus Revision- New Course

Semester: II


Board: Commerce

Course Code/Name: LOGISTICS AND SUPPLY CHAIN MANAGEMENT

Unit	Content
I	Supply Chain Management Supply Chain Management: Concept, Features, Evolution, Importance, Process and Barriers of Supply Chain Management – Principles, Supply Chain Strategies – Organizations, Coordination, Innovation and Forecasting - Supply chain intermediaries – Concept and Types, Channels of Distribution for Industrial Goods and Consumer Goods, Channels of Distribution at Services Level, Factors for selection of suitable channels.
II	Global perspectives Global perspectives: Measuring and analyzing the value and efficiency of Global Supply Chain Networks, Global market forces, Types of global supply chain -Indian Perspectives: Measuring and Analyzing the value and efficiency of Domestic Supply Chain Networks, Economic effects of supply chains - Customer Perspectives: Customer values, Role of customers and Ways of improving customer services in SCM.
III	Framework of Logistics Logistics: Introduction – Positioning of Information in Logistics and Supply Chain Management – Logistics Information System (LIS) - Logistics Management: Concept and Process, Competitive Advantages and Three C's, Changing Logistics Environment, Reverse Logistics, Importance of Inventory Control -Elements of inventory management – Inbound and out bound logistics, Bull- whip effect – distribution and warehousing management - Transport Functions and Participants in Transportation Decisions - Transport Infrastructure- Packaging and Materials Management: Consumer and Industrial Goods Packaging - Factors influencing Materials Planning, Preservation Safety and Measures of Materials Handling.
IV	SCM-Warehousing Introduction– Concepts of Warehousing– Types of Warehouse – Functions of Warehousing– Strategic Warehousing, Warehouse Operations, Ownership Arrangements, Warehouse Decisions, Warehouse Management Systems, Packaging Perspectives, Packaging for Material Handling Efficiency, Materials Handling, Supply Chain Logistics Design: Global Strategic Positioning; Global SC Integration, SC Security, International Sourcing, Distribution control and evaluation.


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V	SCM-Plan SCM Plan: Demand Planning, Source of Procurement, Production or Assembly Steps, Sales return of defective or excess goods-Use of Internet in SCM: Role of computer/ IT in supply chain management –E- market places, E-procurement, E-logistics, E-fulfillment -Operative Systems in SCM: Enterprise Resource Planning (ERP), Performance Modeling of supply chains using Markov chains, Inventory Control- Importance, Pareto’s Law -Emerging Technologies in Logistics and Supply Chain Management: CRM Vs SCM, Benchmarking concept, Features and implementation, Outsourcing: Basic concepts, Value addition in SCM – Concept of demand chain management - Growth of Logistics and Supply Chain Management in national and international scenarios.
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**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: II

Board: Commerce

Course Code/Name: Principles and Practice of Banking

Unit	Content
I	Introduction: History of Indian Banking – Meaning and Definition – Functions of Banker – Unit and Branch Banking – Universal Banking – Banking System in India.
II	Types of Banking: Introduction - Commercial Banks - Private Sector Banks - Public Sector Banks - Foreign Banks - Regional Rural Banks - Co-operative Banks Reserve Bank of India.
III	Banker And Customer : Introduction- Definition - Relationship between Banker and Customer - Special Types of Customers - Deposit Accounts – Savings Accounts - Current Accounts - Fixed Deposit Accounts - Opening and operation of Accounts – Nomination - KYC requirements - Pass Book - Minors - Partnerships & Companies
IV	Special Types of Customers : Introduction – Minor - Joint Account - Partnership Account - Private and Public Limited Company - NRI Account - Registered and Unregistered Societies and Clubs - Precautions while Opening and Operating Accounts.
V	Employment of Bank Funds: Introduction - Liquid Assets-Cash in Hand - Cash with RBI & Cash with other Banks - Investment in securities - Advances (Secured and Unsecured) – Loans - Term Loans - Cash Credit – Overdraft - Discounting of Bills of Exchange


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COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
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	Social Awareness/Environment	✓	Environment and Sustainability
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Syllabus Revision- New Course

Semester: III

Board: Commerce

Course Code/Name: Taxation

Unit	Content
I	Assessment of persons Tax Exemptions for Agricultural Income - Deductions to be made in computing total income (80G, 80GGB & 80GGC, 80IA, 80IAB, 80IAC, 80IB, 80IBA, 80ID, 80IE, 80JJA, 80JJAA, 80LA, 80M, 80P, 80PA) – Assessment of Firms, AOP, BOI, Company and Co-operative society.
II	Tax Returns and Tax planning Return of income: Statutory obligation, Return Forms, Time for filing of return, Revised return, Modified return–Assessment -Tax Deducted at Source - Advance payment of Tax: Persons liable to pay, Due date, Computation - Payment in pursuance of order of Assessing Officer, Consequences on non-payment. – Tax planning, Tax avoidance and Tax evasion - Tax planning and specific management decisions: Make or buy, Own or lease, Retain or replace, Shut down or continue.
III	International business taxation International business taxation - Taxation of Non-resident - Double taxation relief - Transfer pricing and other anti-avoidance measure - Application and interpretation of tax treaties - (Double taxation avoidance agreement - DTAA) - Equalization levy.
IV	Goods and Services Tax Goods and Services Tax: GST Act, 2017 - Registration – Procedure for registration under Schedule III – Amendment of registration – Rates of Tax of IGST, CGST, SGST/UGTST - Assessment of GST- Self-assessment – Provisional assessment – Scrutiny of returns – Assessment of non filers of returns – Assessment of unregistered persons – Assessment in certain special cases – Tax Invoice – Credit and Debit Notes – Payment of Tax – Input Tax Credit - Anti profiteering – Filing of Returns- Penalties – Prosecution – Appeal and Revision.


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V	Customs Act, 1962 Customs Act, 1962: Important Definitions – Basics – Importance of Customs Duty – Constitutional authority for levy of Customs Duty – Types of Customs Duty – Prohibition of Importation and Exportation of goods – Valuation of goods for Customs Duty – Transaction Value – Assessable Value – Computation of Assessable Value and Customs Duty
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PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision

Board: Commerce


Semester: III

Course Code/Name: Research Methodology

Unit	Existing	Changes
I	INTRODUCTION: Research – Importance and its types – research approaches – process – problem formulation – development of Hypothesis – Research design – Determining the sample design – Collecting data – Analysis of data – Identifying research problem.	Introduction to Research Methodology Research: Definition – Objectives – Motivations for research – Types of research – Maintaining objectivity in research – Criteria of good research – Applications of research in business - Formulating a research problem – Literature Review – Reasons for review – Reference management tools - Identification of research gap – Framing of objectives.
II	MEASUREMENT AND ITS TECHNIQUES : Measurement in research and its problems – meaning of scaling – Tests of sound measurement – Types of scaling – Techniques of measurements – Attitude scales – Summed rating scale – Equal appearing Interview scale - Cumulative scale – Rating scale – Scale constructing Techniques – Time series analysis – Projection Techniques.	Hypothesis Testing and Research Design Hypothesis – Formulation of hypothesis – Testing of hypothesis – Type I and Type II errors – Research design – Types of research design - Methods of data collection: Census, Sample survey, Case study – Sampling: Steps in sampling design, Methods of sampling – Testing of reliability and validity – Sampling errors
III	DATA COLLECTION AND HYPOTHESIS: Classification of data – Sources of data – Collection of primary and secondary data – Questionnaire method – Guidelines for Questionnaire design – Interview technique – Observation Techniques – Processing of Data – Editing – Coding – Tabulation – Interpretation of data – Formulation of Hypothesis – Test of Hypothesis.	Data Collection Variable: Meaning and types - Techniques of data collection – Primary data: Meaning, Advantages and limitations – Techniques: Interview, Schedule, Questionnaire, Observation – Secondary Data: Meaning and sources.
IV	STATISTICAL TECHNIQUES: Statistical Techniques – Quantitative and qualitative techniques – Measures of central Tendency – Arithmetic mean , Median and Mode – Standard deviation – Karl pearson's	Data Analysis Data Analysis – Uni-variate Analysis: Percentile, Mean, Median, Mode, Standard


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	coefficient of correlation – Regression – Chi Square test – Conditions for applying chi-square test – ANOVA – Spearman’s Rank Correlation	deviation, Range, Minimum, Maximum, Independent sample t-test – Bi-variate analysis: Simple correlation, Simple Regression, Chi-square, Paired samples t-test, ANOVA, Man-Whitney test – Wilcoxon signed rank test – Kruskal Wallis test (Simple problems) Multi Variate Analysis: Multiple Correlation, Multiple Regression, Factor Analysis, Friedman’s test, Cluster analysis, Confirmatory Factor Analysis (CFA), Structural Equation Modelling (SEM), Multiple Discriminant Analysis.
V	INTERPRETATION AND REPORT WRITING : Interpretation – Techniques of Interpretation – Significance of Report Writing – Different steps in Writing report – Layout of research report – types – oral presentation – mechanics of writing a research report – precautions for writing research reports – Role of computers in Research	Preparation of Research Report Report preparation – Guidelines and precautions for interpretation – Steps in Report writing - Style of research reports (APA, MLA, Anderson, Harvard) – Mechanics of report writing – Ethics in Research – Avoiding plagiarism – Plagiarism checker tools – Funding agencies for business research

**PERCENTAGE OF SYLLAUS REVISED: 70
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: III

Board: Commerce

Course Code/Name: COMPUTER APPLICATIONS IN BUSINESS

Unit	Content
I	UNIT Introduction to SPSS Opening a data file in SPSS – Variable view – Data view – Entering data into the data editor – Saving the data file– Table creation – Descriptive statistics: Percentile values, Measures of central tendency, Measures of dispersion, Distribution – Cronbach’s Alpha test – Charts and graphs - Editing and copying SPSS output.
II	UNIT II(18 hrs) Parametric Tests in SPSS Compare means: One-sample t-test, Independent Samples t-test, Paired-samples t-test and One-way ANOVA, Two-way ANOVA - Correlation: Bi-variate, Partial and Multiple.Simple linear regression.
III	UNIT III Non-parametric Tests in SPSS Chi-square test - Mann Whitney’s test for independent samples – Wilcoxon matched pairs sample test– Friedman’s test– Wilcoxon signed rank test – Kruskal Wallis test
IV	UNIT IV Introduction to Tally Prime Tally Prime: Introduction – Starting Tally Prime – Creation of a Company - Selecting company - Shutting a company - Altering company– Creating Accounting groups and ledgers – Vouchers – Practical problems for a new and existing business and not-for profit organisation.Accounting reports:


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BOS

	Introduction – Displaying Trial balance, Profit and Loss Account, Balance sheet, Day book, Purchase register, Sales register, Cashflow/Funds flow and ratio analysis – Practical problems.
V	UNIT V Inventory and GST in Tally Prime Inventory: Introduction to Inventory Masters – Creation of stock group – Creation of Godown – Creation of unit of measurement – Creation of stock item – Entering inventory details in Accounting vouchers – Practical problems. GST: Introduction – Enabling GST – Defining tax details – Entries in Accounting vouchers – View invoice report – Practical problems.

PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision

Board: Commerce

Semester: III

Course Code/Name: Strategic Management

Unit	Existing	Changes
I	Business Policy and strategic management – Conceptualization –Features of Strategy – Strategy and Tactics- Corporate, Business and Functional levels of Strategy	Introduction to Strategic Management Introduction to Strategic Management: Meaning and Nature of Strategic management, Framework of Strategic management, Strategic Levels in Organizations, Phases of strategic management, Benefits and challenges of strategic Management in global economy
II	Environmental Scanning of Analysis - Features- Methods of Environmental analysis and Forecasting- External and Internal Environment – SWOT analysis	Techniques for Strategic Management Dynamics of Competitive Strategy: Corporate governance- Role of Board of directors and top management in corporate governance; Agency and Stewardship theory, Situational Analysis- SWOT analysis, TOWS Matrix, Portfolio Analysis - BCG, GE, and ADL matrix - Strategic Management Process: Strategic Planning, Strategic Intent – Vision, Mission and Objectives, Strategy Formulation - Corporate Level Strategies: Concepts and Nature of Corporate Strategy, Strategic Alternatives at Corporate Level-Growth, Stability, Expansion, Business Combinations – Mergers and Acquisitions, Strategic Alliances, Turnaround, Retrenchment and Retreat, Corporate parenting
III	Corporate Appraisal- Process – Methods And Techniques used –Internal analysis- Comparative analysis – Corporate Capability	Different Levels of Strategies Business Level Strategies: Competitive Strategies at Business Level, Michael Porter's Generic Strategies, Best-Cost Provider Strategy - Functional Level Strategies: Marketing Strategy, Financial Strategy, Operations Strategy, Human Resource Strategy, Research and Development
IV	Corporate Strategy formulation- Implementation- Expansion through Integration – Vertical Integration-	Organisation and Strategic Leadership Organisation and Strategic Leadership: Organisation Structure, Strategic Business Unit,

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	Diversification - Mergers - Takeovers – Acquisition – Joint venture-Divestment Strategy – Liquidation Strategy.	Strategic Leadership, Strategy Supportive Culture, Entrepreneurship and Intrapreneurship, Strategic Leadership across organizations
V	Strategy Evaluation and Control- Strategic Control – Types –Differences Between Strategic and operational control - Evaluation for Strategic and Operational Control.	Strategy Implementation and Control Strategy Implementation and Control: Strategy Implementation, Strategic Choice, Strategic Control, Strategy Audit, Business Process Reengineering, Benchmarking, Six Sigma and contemporary practices in strategic management.

PERCENTAGE OF SYLLAUS REVISED: 70
COURSES FOCUSES ON:70

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision

Board: Commerce

Semester: III

Course Code/Name: International Financial Management

Unit	Existing	Changes
I	The finance function in the international context – The Balance of Payments – International monetary system – Functions of financial management – Challenges of international financial management.	International Financial Management International Financial Management: An overview – Importance – Nature and Scope – International flow of Funds – Balance of Payments – International Monetary System.
II	The foreign exchange market structure and the participants-Types of transactions-Meaning of Currency-Dealing – Exchange rate – Forward rates- Exchange rate computation.	Foreign Exchange Market Foreign Exchange Market: Features – Spot and Forward Market – Exchange Rate Mechanism – Exchange Rate determination in the Spot and Forward Markets – Factors Influencing Exchange Rate – Salient Features of FEMA – Market for Currency Futures and Currency Options – Hedging with Currency Future and Options.
III	Working Capital Management in a multinational Context – Short term Borrowing and Investment – Centralized Vs Decentralized cash management – Cash transactions – Equity Financing in the international markets – Accounts receivable and Inventory management.	International Investment Decision Foreign Direct Investment – International Capital Budgeting – International Portfolio Investment: Meaning – Benefit of International Portfolio Investment – Problem of International Investment.
IV	Long term borrowing in international capital markets – The major market segment – International leasing – Foreign direct investments by multinationals- Capital Budgeting.	International Financial Decisions Overview of the International Financial Market – Channels for International Flow of Funds – Role and Functions of Multilateral Development Banks – International Banking: Functions – Credit Creation – Control of International Banks
V	International project appraisal – Review of NPV approach – Adjusted present value-Frame work – Project appraisal in the international context – Exchange rate risk and cost of Capital – Joint ventures.	International Financial Market Instruments Short-term and Medium-term Instruments – Management of Short-term Funds – Management of Receivables and Inventory – Factors behind the Debt Crisis.


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**PERCENTAGE OF SYLLAUS REVISED: 70
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: IV

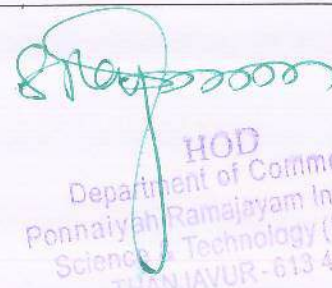
Board: Commerce

Course Code/Name: Corporate & Economics Law

Unit	Content
I	Introduction to Foreign Exchange Management Act, 1999 Foreign Exchange Management Act, 1999: Introduction – Definitions – Current Account transactions – Capital Account transactions – Realisation, repatriation and surrender of foreign currency – Remittance of assets – Possession and retention of foreign currency or foreign coins – Authorised person – Adjudication and Appeal
II	Competition Act, 2002 and Consumer Protection Act, 2019 Competition Act, 2002: Objective – Prohibition of Agreements, Prohibition of Abuse of Dominant Position - Regulation of combinations - Competition Commission of India: Duties, Powers and Functions of Commission - Appellate Tribunal. The Consumer Protection Act, 2019: Objects; Rights of consumers – Consumer Dispute Redressal Commissions - Consumer protection councils – Procedure for admission to complaints – Appeal against orders
III	Law relating to intellectual property rights Law relating to intellectual property rights: Introduction - The Copyright Act, 1957: Works in which copyright subsist - Ownership of copyright and the rights of the owner - Assignment of copyright - Disputes with respect to assignment of copyright - Term of copyright - Registration of copyright - Infringement of copyright. The Patents Act, 1970: Inventions not patentable - Applications for patents - Publication and examination of applications - Grant of patents and rights conferred - Register of patents. Trademarks Act, 1999: Conditions for registration - Procedure for and duration of registration - Effect of registration - Collective marks.
IV	Prevention of Money Laundering Act, 2002 Prevention of Money Laundering Act, 2002: Offence of money laundering – Punishment for money laundering – Attachment, adjudication and confiscation - Obligations of Banking Companies, Financial Institutions and Intermediaries – Summons, Search and Seizure – Appellate Tribunal.


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V	Real Estate (Regulation and Development) Act, 2016 Real Estate (Regulation and Development) Act, 2016: Introduction - Salient features of the Act - Registration of Real Estate Project – Registration of Real Estate agents – Functions and duties of promoter – Rights and duties of Allottees – Offences, penalties and adjudication – Specimen agreement for sale to be executed between the promoter and the allottee.
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PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

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Syllabus Revision- New Course

Semester: IV

Board: Commerce

Course Code/Name: Human Resource Analytics

Unit	Content
I	Introduction to Human Resource Analytics Human Resource Analytics: Introduction – Concept – Evolution - Importance – Benefits – Challenges - Types of HR Analytics – HR Analytics Framework and Models.
II	Business Process and HR Analytics Business Process and HR Analytics: Introduction – Data Driven Decision Making in HR - Data Issues – Data Validity – Data Reliability - HR Research tools and techniques – Statistics and Statistics Modeling for HR Research.
III	Introduction to HR Metrics HR Metrics: Introduction - Historical Evolution of HR metrics- Importance – Types of HR Metrics – Types of data - HR Metrics Design Principles — HR Scorecard – HR Dashboards
IV	HR Analytics and Data HR Analytics and Data: Introduction – HR Data Collection – Data quality – Big data for Human Resources – Process of data collection for HR Analytics – Transforming data into HR information – HR Reporting – Data Visualization – Root cause analysis
V	HR Analytics and Predictive Modelling HR Analytics and Predictive Modelling: Introduction – HR Predictive Modelling – Different phases – Predictive analytic tools and techniques – Information for Predictive analysis - Software solutions - Predictive Analytic Models for Quantitative Data - Steps involved in predictive analytics


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**PERCENTAGE OF SYLLAUS REVISED:100
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. S. A.

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S. S. S.

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Syllabus Revision

Board: Commerce

Semester:IV

Course Code/Name: International Business

Unit	Existing	Changes
I	International Business: An overview – Evolution of International business – Drivers of Globalization – Influences of International business – Stages of Internationalization – Differences between domestic business and International business – International business Approaches – Modes of entry – Goals of International business – Advantages of International business – Problems of International business.	Introduction to International business International Business - Meaning, Nature, Scope and Importance- Stages of internationalization of Business-Methods of entry into foreign markets: Licensing- Franchising- Joint Ventures-Strategic Alliances- Subsidiaries and Acquisitions - Framework for analyzing international business environment- Domestic, Foreign and Global Environment-Recent Developments in International Business.
II	International Business Environment: Introduction – Social and cultural environment – Technological environment – Economic environment – Political environment – Legal environment	Theoretical Foundations of International business Theoretical Foundations of International Business: Theory of Mercantilism- Theory of Absolute and Comparative Cost Advantage - Haberler's Theory of Opportunity Cost- Heckscher- Ohlin Theory Market Imperfections Approach-Product Life Cycle Approach - Transaction Cost Approach - Dunning's Eclectic Theory of International Production.
III	Modes of Entering International Business: Introduction – Modes of entry – Exporting , Licensing , Franchising , Contract manufacturing , Management contracts , turnkey projects, foreign direct investment , Joint ventures – comparison of Different modes of entry – Functional Alliances – managing conflict situations – Break – Up of – Alliances..	Legal framework of International Business Legal framework of International Business: Nature and complexities: Code and common laws and their implications to Business - International Business contract - Legal provisions, Payment terms
IV	Foreign Direct Investment: Meaning – International Investment Theories – Factors Influencing FDI – Reasons for FDI – costs and benefits of FDI – Trends in FDI	Multi-Lateral Agreements and Institutions Multi-Lateral Agreements and Institutions: Economic Integration – Forms: Free Trade Area,

K. S. Jayaraman
DEAN

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S. Rajagopal

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	– Foreign Direct Investment in India.	Customs Union, Common Market and Economic Union-Regional Blocks: Developed and Developing Countries-NAFTA- EU-SAARC, ASEAN - BRICS - OPEC-Promotional role played by IMF-World Bank and its affiliates- IFC, MIGA and ICSID – ADB -Regulatory role played by WTO and UNCTAD
V	Multinational Corporations: Definitions and concepts – Factors that contributed for the growth of MNCs – Advantages and Disadvantages – control over MNCs – Organizational structure of MNCs – Relationship between headquarters and subsidiaries – MNCs in India – The Indianisation of Transnationals.	Multinational Companies (MNCs) and Host Countries Multinational Companies (MNCs) and Host Countries: MNCs – Nature and characteristics. Decision Making-Intra Firm Trade and Transfer Pricing – Technology Transfer- Employment and labour relations- Management Practices- Host Country Government Policies-International Business and Developing countries: Motives of MNC operations in Developing Countries (Discuss case studies)-Challenges posed by MNCs.

PERCENTAGE OF SYLLAUS REVISED: 50
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

K. Jay
DEAN

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Syllabus Revision

Board: Commerce


Semester:IV

Course Code/Name: Organizational Behaviour

Unit	Existing	Changes
I	Introduction: Concept and meaning of OB – Nature of OB – Role of OB – Approaches to OB – Characteristics of OB.	Introduction to Organizational Behaviour and Learning Introduction to Organizational Behaviour – OB Models - Challenges facing management – Personality – Perception- Attitudes – Values. Organisational Learning: Meaning, Theories (Chris Argyris and Donald Schon: Espoused theory, Theory-in-use, Three levels of learning) Introduction to learning organisation.
II	Individual Behavior – Perception – Personality – Meaning and Definition of perception – Nature of Perception – Importance of Perception – Perception Process – Stages in the Development of Personality – Nature of Personality – Group Dynamics – Types of Groups.	Motivation and Job Satisfaction Motivation Theories – Content theories (Maslow, Herzberg, ERG), Process Theories (Vroom, Porter and Lawler) – Job Satisfaction- Organisational commitment
III	Leadership – Meaning and Definitions – Nature and Characteristics of Leadership – Leadership Styles (or) Types of Leadership – Functions – Importance of Leadership – Successful Leadership – Leadership Theory.	Organisational structure and Communication Organisational structure- Factors, Forms. Importance of virtual organisations -Organisational communication- Importance, Forms, Functions. Organisational Climate and Culture. Business communication: Harnessing Business Emails and Corporate Communication tools.
IV	Authority – Elements and Characteristics – Types of Authority – Nature of Accountability – Delegation of Authority – Elements of Delegation – Principles of Delegation –Types of Delegation – Importance of Delegation	Transactional Analysis and Organizational Conflicts Transactional analysis: Meaning, Benefits, Levels of self-awareness, Analysis of transactions. Organizational Conflicts – Process, Levels, Conflict management. Negotiation – Types and Process - Introduction to Workplace Spirituality
V	Motivation – Meaning and Definition of motivation – Nature – Types – Importance of Motivation – Theories of Motivation –	Contemporary practices in Organisational Change and Development


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Features of Theory Z – Motivational Techniques – Limitations of MBO – Implementation of MBO – Job Enrichment.	International Organisational Behaviour Practices – Organizational Change and Change Management. Organisational Development – Meaning, Models and Interventions
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**PERCENTAGE OF SYLLAUS REVISED: 70
COURSES FOCUSES ON:**

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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Syllabus Revision- New Course

Semester: IV


Board: Commerce

Course Code/Name: INSOLVENCY LAW AND PRACTICE

Unit	Content
I	Introduction to Insolvency and Bankruptcy Code Introduction to Insolvency and Bankruptcy Code: Concepts, Need for the Insolvency and Bankruptcy Code 2016 - Important Definitions
II	Corporate Insolvency Resolution Process Corporate Insolvency Resolution Process: Legal Provisions; Committee of Creditors; Procedure; Documentation; Appearance; Approval. Insolvency Resolution of Corporate Persons: Contents of resolution plan; Submission of resolution plan; Approval of resolution plan - Resolution Strategies: Restructuring of Equity and Debt – Compromise and Arrangement; Acquisition; Takeover and Change of Management; Sale of Assets.
III	Liquidation and Adjudication of Corporate Persons Liquidation of Corporate Person: Initiation of Liquidation; Powers and duties of Liquidator; Liquidation Estate; Distribution of assets; Dissolution of corporate debtor - Voluntary Liquidation of Companies: Procedure for Voluntary Liquidation; Initiation of Liquidation; Effect of liquidation; Appointment; Remuneration; Powers and duties of Liquidator; Completion of Liquidation - Adjudication and Appeals for Corporate Persons: Adjudicating Authority in relation to insolvency resolution and liquidation for corporate persons; Jurisdiction of NCLT; Grounds for appeal against order of liquidation; Appeal to Supreme Court on question of law; Penalty of carrying on business fraudulently to defraud traders
IV	Cross Border Insolvency Cross Border Insolvency: Introduction; Global developments; UNCITRAL Legislative Guide on Insolvency Laws; UNCITRAL Model Law on Cross Border Insolvency; World Bank Principles for Effective Insolvency and Creditor Rights; ADB principles of Corporate Rescue and Rehabilitation; Enabling provisions for cross border transactions under IBC, Agreements with foreign countries.


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V	Professional and Ethical Practices for Insolvency Practitioners Professional and Ethical Practices for Insolvency Practitioners: Responsibility and accountability of Insolvency Practitioners; Code of conduct; Case laws; Case Studies; and Practical aspects.
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PERCENTAGE OF SYLLAUS REVISED:100

COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		


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SCHOOL OF EDUCATION

DEPARTMENT OF EDUCATION

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)*

Board: Education

The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	Education
Meeting no	13
Date and Time	24.06.2023 & 11.00 A.M
Venue	PRIST BLOCK
Members Attended	The details are given in the ANNEXURE-1

AGENDA

1	Confirmation of the previous Meeting Minutes.
2	Action taken on the previous Meeting Minutes.
3	Discussion on syllabi for B.Ed-Full time.
4	Discussion on syllabi for M.Ed-Full time.
5	Discussion on Value Added Certificate Courses.
6	Discussion on Coaching for Competitive Exams & Higher Education.
7	Discussion on MOOC SWAYAM Course.
8	Discussion on Indian Knowledge System (IKS).
9	Discussion on Extension Activity for 2023-2024 Academic Year.
10	Discussion on Internship.
11	Discussion on Disaster Management Course.
12	Discussion on Cyber Security in Teacher Education (3 Units Included in ICT Paper)
13	Any other matter.


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MINUTES OF THE BOARD OF STUDIES MEETING

Board: Education

The Chairman of BOS welcomed all the Board members for the meeting. The items listed in the agenda were taken up for discussion.

The following are the minutes of the meeting

Agendum 1: Confirmation of the previous Meeting Minutes

Discussion: The members of the board discussed elaborately about the existing Curriculum and syllabi for both B.Ed and M.Ed courses.

Resolution: The Board approved the same. Included the two new courses in the academic year onwards. The detailed syllabus attached in the annexure.

Agendum 2: Action taken on the previous Meeting Minutes

Discussion: The feedback from various stake holders from 2019 batch students comments they introduce the ICT paper along with Cyber Security and Disaster Management also included in the syllabi for the current new scenario.

Resolution: The Board unanimously approved the new introduced paper syllabus.

Agendum 3: Discussion on syllabi for B.Ed-Full time.

Discussion: B.Ed - Full time (2 years)

B.Ed - Yes, Change in Curriculum and syllabi.

Resolution: The Board recommended the syllabus revision for approval by the Academic Council.

Agendum 4: Discussion on syllabi for M.Ed-Full time.

Discussion: M.Ed - Full time (2 years)

M.Ed- Yes, Change in Curriculum and syllabi.

Resolution: The Board recommended the syllabus revision for approval by the Academic Council.

Agendum 5: Discussion on Value Added Certificate Courses.

Discussion: The board members discussed the two value added certificate courses on

1. General Awareness
2. Mental Health
3. Environmental Awareness
4. Basics of laptop maintenance and OS installation
5. Time management


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Resolution: After due deliberations, the Board recommended the syllabus of the Value Added Courses for approval by the Academic Council.

Agendum 6: Discussion on Coaching for Competitive Exams & Higher Education.

Discussion: The board members discussed and recommended the students to appear the Competitive Exams conducted by TET, TRB) & TNPSC etc..

Resolution: The Board approved the same.

Agendum 7: Discussion on new online MOOC SWAYAM Course.

Discussion: Students are asked to register the MOOC SWAYAM course Educational Leadership, Accreditation and Outcome based Learning, Learning Analytics Tools, National Educational Policy 2020 Professional Development Programme and Research Ethics using Research Methodology Creating a New Global Education Curriculum.

Resolution: The Board approved the same.

Agendum 8: Discussion on Indian Knowledge System (IKS).

Discussion: Field visits to places of Historical importance, Conduct in the campus of traditional festivals were suggested as part of exposing the students to the aspects of Indian Knowledge System.

Resolution: The Board unanimously approved.

Agendum 9: Discussion on Extension Activity for 2023-2024 Academic Year.

Discussion: Certificate to be awarded for participating students each Extension Activity such as National Service Scheme, Unnat Bharath Abhiyan, Youth Red Cross, Centre for Human Right, Psychosocial Support Cell, Women's Grievances redressal cell, Centre for yoga and Meditation,

Resolution: The Board approved the same.

Agendum 10: Discussion on Internship.

Discussion: The board members discussed and recommended the Teaching Competence Internship for B.Ed., students to allot a school training programme for 16 weeks (80 days) based on NCTE norms. This programme has been arranged by the department.

Resolution: The Board approved the same.

Agendum 11: Discussion on new B.Ed., courses were introduced Disaster Management, Indian Knowledge System, Critical Understanding of ICT and Cyber Security and also in M.Ed., new course ICT and Cyber Security in Teacher Education.

Discussion: The board members discussed core and elective new Courses and syllabus.

Resolution: The Board approved the same.

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Agendum 12 :Any other matter

Discussion: The board members discussed and recommended the NCTE/NAAC/UGC-coordinator& Panel of Examiners.1.Dr.R.Gunasekaran, Dean, School of Education 2. Dr.P.Rajasekar, Professor 3. Dr.K.B.JasmineSuthandira Devi,Professor 4. Dr.M.Aron Antony Charles , Associate Professor

Resolution: The Board unanimously approved.

The chairman of Board of Studies (BOS) thanked all the members for their active participation and cordially invited them for the next meeting

Date: 24.06.2023

Signature

(.....*P. Rajasekar*.....24/06/23)

BOS Chairman/HOD Seal

DEAN

School of Education
Ponnaiyah Ramajayam Institute of
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THANJAVUR - 613 403.

P. Rajasekar

HOD

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PONNAIYAH RAMAJAYAM INSTITUTE OF
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ATTENDANCE OF THE THIRTEENTH BOARD OF STUDIES MEETING




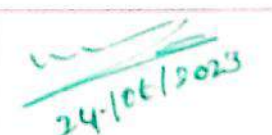
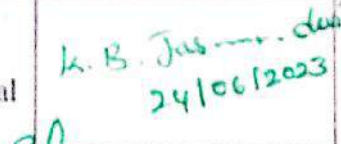
Board :Education

Date:24.06.2023

Time:11.00 A.M

Venue:PRIST BLOCK

The following members were present for the Board of Studies meeting

S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Online/ Physical	Signature (scan, if online)
1.	Dr.R.Gunasekaran, M.Sc., M.Ed.,M.Phil., Ph.D., Dean School of Education	<u>Chairman</u> Ponnaiyah Ramajayam Institute of Science and Technology(PRIST), Thanjavur.	Physical	 24/06/23
2.	Dr. N.Sasikumar M.Sc.,M.Ed.,M.Phil.,Ph.D Associate Professor, Head, Department of Education, AlagappaUniversity, Karaikudi.	<u>Academic Expert</u> Department of Education Alagappa University, Karikudi, Sivakangai Dt. Pin Code: 630 003. Email: sasismile25@gmail.com Ph.No: 9865705482	Physical	 Dr. N SASIKUMAR M.Sc. M.Ed.,M.Phil.,Ph.D. Assistant Professor Department of Education Alagappa University Karaikudi - 630 003
3.	Dr.K. Muthusamy M.Com.,M.Ed.,M.Phil.,Ph.D., Principal,AnnaiFathima College of Education, Kumbakonam.	<u>External Member</u> Annai Fathima College of Education, Kovilacheri, Kumbakonam, Thanjavur Email: kmsamy28@gmail.com Ph. No: 9994033887	Physical	 Dr. K. MUTHUSAMY, M. Com., M. Ed., M. Phil., Ph. D. PRINCIPAL, ANNAI FATHIMA COLLEGE OF EDUCATION, KOVILACHERI, KUMBAKONAM-612022
4.	Dr.P.Rajasekar M.A , M.Ed, M. Phil, Ph.D., Professor Department of Education	<u>Professor</u> Department of Education Ponnaiyah Ramajayam Institute of Science and Technology(PRIST), Thanjavur.	Physical	 24/06/2023
5	Dr.K.B.JasmineSuthandira Devi M.A., M.Ed.,M. Phil, Ph.D.,	<u>Professor</u> Department of	Physical	 K. B. Jasmine Suthandira Devi 24/06/2023

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		Technology(PRIST), Thanjavur.		
6	Dr.M.Balasubramanian M.A , M.Ed,M. Phil, Ph.D., Associate Professor Department of Education	<u>Associate Professor</u> Department of Education Ponnaiyah Ramajayam Institute of Science and Technology(PRIST), Thanjavur.	Physical	<i>M. Balasubramanian</i>
7	Dr.M.Aron Antony Charles M.Sc , M.Ed.M. Phil, Ph.D., Associate Professor Department of Education	<u>Associate Professor</u> Department of Education Ponnaiyah Ramajayam Institute of Science and Technology(PRIST), Thanjavur.	Physical	<i>A. Antony Charles</i>
8	Dr.S.Selvaraj M.A.M.Ed, M.Phil, Ph.D., Assistant Professor Department of Education	<u>Assistant Professor</u> Department of Education Ponnaiyah Ramajayam Institute of Science and Technology(PRIST), Thanjavur.	Physical	<i>S. Selvaraj</i>
9	Mrs.R.Vaishnavi M.A.M.Ed , M. Phil, Assistant Professor Department of Education	<u>Assistant Professor</u> Department of Education Ponnaiyah Ramajayam Institute of Science and Technology(PRIST), Thanjavur.	Physical	<i>R. Vaishnavi</i> 24/6/23
10	T.Selvaraj M.Sc ,M.Ed, M. Phil, Assistant Professor Department of Education	<u>Assistant Professor</u> Department of Education Ponnaiyah Ramajayam Institute of Science and Technology(PRIST), Thanjavur.	Physical	<i>T. Selvaraj</i> 24/06/23
11	Mrs.T.Subhashini M.A,M.Ed , M. Phil, Assistant Professor Department of Education	<u>Assistant Professor</u> Department of Education Ponnaiyah Ramajayam Institute of Science and Technology(PRIST), Thanjavur.	Physical	<i>T. Subhashini</i> 24/06/23
12	P. Merlin Jenita	<u>Alumini</u> Teacher,Ponnaiyah Ramajayam Public	Physical	<i>P. Merlin Jenita</i>

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		School, CBSE Thanjavur.		
13	A.R. Ravitha	<u>Student Representative</u> II PG M.Ed.	Physical	A.R. Ravitha 24/6/23
14	C. Surendar	<u>Student Representative</u> II UG B.Ed.,	Physical	C. Surender
15	S. Dharshini	<u>Student Representative</u> I UG B.Ed.,	Physical	S. Dharshini
16	P. Karthikeyan	<u>Student Representative</u> Ph.D., Student	Physical	P. Karthikeyan
17	P. Darthi	<u>Student Representative</u> Ph.D., Student	Physical	P. Darthi P

Date: 24.06.2023

(.....) 24/6/23
BOS Chairman/HOD
Seal

NOTE:

B.Ed

- Semester – I No Changes
- Semester – II Elective – Disaster Management paper included in the syllabus
Subject Code: 22130EP24C-Teaching Early Child Hood Education paper
Removed from the syllabus.
- Semester – II Elective – Indian Knowledge System paper included in the syllabus
Subject Code: 22130EP33B - Drama and art in Education paper
Removed from the syllabus.
- Semester – IV Elective – Critical Understanding of ICT and Cyber Security paper
Included in the syllabus Subject Code: 22130EP45A ICT paper 3 units,
Cyber Security 2 Units)

M.Ed

- Semester – I No Changes
- Semester – II No Changes
- Semester – II No Changes
- Semester – IV Tool Course Paper – III-- ICT and Cyber Security in Teacher Education
Included in the syllabus Subject Code: 22230TC43 --(ICT – 2 Units and
Cyber Security 3 units) ICT on Teaching and Learning paper name
Changed.

Mandatory Attachments:

1. Minutes of the previous BoS meeting minutes and report on the follow-up action taken.
2. BoS Meeting 'Notification' sent to all members, including online meeting link.
3. Screenshots and geo-tagged photos in the venue.
4. Attendance sheet print of attendees.

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B.Ed revised Syllabus attached below:

PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY [PRIST]

DEPARTMENT OF EDUCATION

B.Ed. SYLLABUS, 1st YEAR SEMESTER -II

ENHANCING PROFESSIONAL CAPABILITIES (ELECTIVE)

COURSE TITLE: DISASTER MANAGEMENT

COURSE CODE: 22130EP24C

COURSE OBJECTIVES:

The student- teachers will be able to:

CO1: Comprehend the meaning, definitions and concept of disaster management

CO2: Understand the different theories of disaster management

CO3: Develop knowledge on cognizance of recent updates on management Acts

And guidelines of State and Union Governments.

CO4: Acquaint with the approaches, techniques and application of Science & Technology to encounter disasters and any other emergencies.

CO5: Realize their role in prevention and rescue in disaster emergency.

UNIT – I: INTRODUCTION TO DISASTER MANAGEMENT

Disaster Management: Meaning and definitions - Types: Geological, Biological and Man-made Disasters – Global Disaster trends – Emerging risk of Disasters – Climate change.

UNIT – II: APPROACHES AND TECHNIQUES OF DISASTER MANAGEMENT

Disaster Management: Principles and Framework Cycle – Theories of Disaster

Management: Sustainable Development theory, Emergency Management theory,

System theory, Policy making theory and Networking & Management theory.

UNIT – III: DISASTER MANAGEMENT IN INDIA

Disaster profile of India – Mega Disasters of India and lessons learnt - Disaster

Management Act 2005 – Institutional and financial Mechanism - National policy on

Disaster Management - National guidelines and plans on Disaster Management.

UNIT – IV: AGENCIES OF DISASTER MANAGEMENT

International Agencies: The Asian and Pacific Centre for Transfer of Technology

(APCTT), FAO, UNDP, UNICEF, UNESCO, UNFPA, WFP, International Strategy for

Disaster Reduction (ISDR) – Disaster Management Agencies in India: National Disaster

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Response Force (NDRF); National Disaster Management Authority (NDMA); National Institute of Disaster Management (NIDM); State Disaster Management Authority (SDMA) – NGO's – Social Media

UNIT – V: ROLE OF EDUCATIONAL INSTITUTIONS IN DISASTER MANAGEMENT

Role of Teachers: General awareness in Schools/Colleges - Creating the Disaster prevention and response plan - Constituting of prevention and resource teams - Action plan check list - Role of Students: Plan before, during and after Earthquake, Landslides, Floods, Cyclone-warning, and high-rise fire.

SUGGESTED ACTIVITIES

1. Conduct a seminar on the role of Science & Technology on Disaster Management.
2. Invited lecture by legal expert on various legal measures on Disaster Management.
3. Preparation of Disaster Risk Management Plan of an Area or Sector.
4. Study of Recent Disasters (at local, state and national level).
5. Write a reflective report on disaster management agencies at international and national level.

TEXT BOOKS

1. Coppola, D. P, (2007). Introduction to international disaster management. London: Elsevier Science(B/H).
2. David Alexander. (1999): Natural disasters. London: Kluwer Academic.
3. Modh, S. (2010). Managing natural disasters. New Delhi: Mac Millan Publishers.
4. Murthy, D.B.N. (2012) Disaster management. New Delhi: Deep and Deep Publication.
5. Srivastava, H.N. & Gupta, G.D. (2006). Management of natural disasters in developing countries. Delhi: Daya Publishers.

SUPPLEMENTARY READINGS

1. Angus, M. G. (2008). Encyclopedia of disasters: Environmental catastrophes and human tragedies. (Vol. 1 & 2) Greenwood Press.
2. AnuKapur (2005). Disasters in India studies of grim reality. Jaipur: Rawat Publishers,
3. Disaster Management Guidelines. GOI-UND Disaster Risk Program(2009-2012).
4. S. L. (2006). Encyclopedia of disaster management, disaster management policy and administration, (Vol I, II & III), New Delhi: Deep & Deep Publications.
5. Gupta, A. K; Niar, S.S & Chatterjee, S. (2013). Disaster management and risk reduction, role of environmental knowledge. Delhi: Narosa Publishing House.

E-RESOURCES

1. <http://www.wui.org>
2. <http://www.ifvc.org>
3. <https://www.mba.gov.in>



4. <http://www.unoosa.org>
5. <http://www.ndvf.gov.in>

COURSE OUTCOMES

After completion of this course, the student-teacher will be able to:

- CO1: Analyze the different types of Disaster Management.
CO2: Apply the techniques and approaches to Disaster Management.
CO3: Describe national Policy on Disaster Management.
CO4: Discuss the role of various international and national agencies of disaster Management.
CO5: Explain knowledge on role of educational institutions in disaster management.

OUTCOME MAPPING

Course outcomes	PROGRAMME SPECIFIC OUTCOMES											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1							*					
CO2		*			*		*					*
CO3		*					*			*		*
CO4							*			*		
CO5						*	*			*		

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PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY [PRIST]

DEPARTMENT OF EDUCATION

B.Ed. SYLLABUS, 11th YEAR SEMESTER – III

ENHANCING PROFESSIONAL CAPABILITIES (ELECTIVE)

COURSE TITLE: INDIAN KNOWLEDGE SYSTEM

COURSE CODE: 22130EP33B

COURSE OBJECTIVES:

The student – teachers will be able to:

CO1: Creating awareness amongst the youths about the true history and rich culture of the Country

CO2: Understanding the scientific value of the traditional knowledge of India.

CO3: Promoting the youths to do research in the various fields of Indian knowledge system

CO4: Converting the Indian wisdom into the applied aspect of the modern scientific paradigm

CO5: Adding career, professional and business opportunities to the youths.

UNIT -I: Indian Civilization and Development of Knowledge System

Genesis of the land. Antiquity of civilization, On the Trail of the Lost River, Discovery of the Saraswati. River, the Saraswati-Sindhu Civilization, Traditional Knowledge System, The Vedas, Main Schools of Philosophy, Ancient Education System, the Takshashila University, the Nalanda University, Alumni, Knowledge Export from India.

UNIT-II: Arts, Literature, and Scholars

Art, Music, and Dance, Natarajan– A Masterpiece of Indian Art, Literature, Life and works of Agastya, Lopamudra, Ghosha, Valmiki, Patanjali, Vedavyasa, Yajnavalkya, Gargi, Maitreyi, Bodhayana, Caraka, Suśruta, Jivaka, Nagarjuna, Kanada, Patanjali, Kautilya, Panini, Thiruvalluvar, Aryabhata, Varahamihira, Adisankaracharya, Bhaskaracharya, Madhavacharya.

UNIT-III: Science, Astronomy, and Mathematics

Concept of Matter, Life and Universe, Gravity, Sage Agastya's Model of Battery, Velocity of Light, Vimana: Aeronautics, Vedic Cosmology and Modern Concepts, Kerala School for Mathematics and Astronomy, History and Culture of Astronomy, Sun, Earth, Moon, and Eclipses, Earth is Spherical and Rotation of Earth, Archaeoastronomy; Concepts of Zero and Pi, Number System, Pythagoras Theorem, and Vedic Mathematics.

UNIT-IV: Engineering, Technology, and Architecture

Pre-Harappan and Sindhu Valley Civilization, Laboratory and Apparatus, Juices, Dyes, Paints and Cements, Glass and Pottery, Metallurgy, Engineering Science and Technology in the Vedic Age and Post-Vedic Records, Iron Pillar of Delhi, Rakhigarhi, Mehrgarh, Sindhu Valley Civilization, Marine Technology, and Bet-Dwarka.

UNIT-V: Life, Environment, and Health



Ethnic Studies, Life Science in Plants, Anatomy, Physiology, Agriculture, Ecology and Environment, Ayurveda, Integrated Approach to Healthcare, Medicine, Microbiology, Medicine, Surgery, and Yoga.

Reference Books:

- Textbook on The Knowledge System of Bharata by Bhag Chand Chauhau,
- History of Science in India Volume - I, Part-I, Part -II, Volume VIII, by SibajiRaha, et al.
- National Academy of Sciences, India and TheRamkrishnan Mission Institute of Culture, Kolkata
- (2014).
- Pride of India- A Glimpse of India's Scientific Heritage edited by Pradeep Kohle et al.
- SamskritBharati (2006).
- Vedic Physics by KeshavDevVerma, MotilalBanaradass Publishers (2012).
- India's Glorious Scientific Tradition by Suresh Soni, Ocean Books Pvt. Ltd. (2010).
- Scientific Knowledge in Sanskrit Literature - NirmalTrikha
- Indian Astronomy: An Introduction - S. Balachandra Rao
- Ancient Indian Sciences - B. Seal
- Science in Ancient India (Science of the Past) - Melissa Stewart
- India's Contribution to World Culture - SudheerBrodkar
- Ancient India - R. C. Majumdar
- Ancient Indian Sciences - Swami ChidanandJeeMaharaj
- KrishiParashara - Agriculture by Parashara - Asian Agri-History
- Foundation
- The Art of India through the Ages - Stella Kramerich
- Early Indian Secular Architecture - K. Krishna Murthy
- The Asian Elephant: Ecology and Management^o Cambridge Univ, Press

COURSE OUTCOME

After completing this course, the students will be able to:

- CO1: Describe the need and importance of Indian Civilization.
- CO2: Demonstrate the various Art, Music, and Dance skills.
- CO3: Prepare a model for Universe and Gravity.
- CO4: Handle various Methods of Teaching Technology.
- CO5: Utilize various instructional media in Environment, and Health.

OUTCOME MAPPING

Course outcomes	PROGRAMME SPECIFIC OUTCOMES											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1		+					+					
CO2	+					*				+	*	
CO3				+								
CO4					+	+					+	
CO5			+						+			

4.

PR
DEAN

School of Education
Ponnaiyah Hanuman Jayaram Institute of
Science & Technology (PHIST)
THANJAVUR - 613 403.

M.Ed revised Syllabus attached below:

PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY [PRIST]

DEPARTMENT OF EDUCATION

B.Ed. SYLLABUS – SECOND YEAR SEMESTER – IV

ENHANCING PROFESSIONAL CAPABILITIES

ELECTIVE - CRITICAL UNDERSTANDING OF ICT AND CYBER SECURITY

COURSE CODE: 22130EP45A

COURSE OBJECTIVES:

The student- teachers will be able to:

CO1: understand the concept of Information and Communication Technology

CO2: acquire knowledge about new horizons in ICT

CO3: Learn the foundations of Cyber security and threat landscape.

CO4: To equip students with the technical knowledge and skills needed to protect and defend Against cyber threats.

CO5: To develop skills in students that can help them plan, implement, and monitor cyber secure Mechanisms to ensure the protection of information technology assets.

UNIT – I INFORMATION AND COMMUNICATION TECHNOLOGY

ICT – Concept - Objectives – Types of computer – Hard,ware and software – Role of ICT - Need and Importance of ICT - Characteristics and Scope of Information and Communication Technology - **new horizons in ICT** Recent trends in the area of ICT

- Interactive Video-Interactive White Board- video-conferencing – Audio

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conferencing – Tele conferencing - M-learning, Social Media- Community Radio - Gyan Darshan, - Gyanvani - Sakshat Portal - e-Gyankosh - Blog - MOOC - What Sapp - Facebook - Twitter etc.-Recent experiments in the third world countries and pointers for India with reference to Education.

UNIT – II COMMUNICATION AND INTERACTION

Communication – Concept - Elements - Process - Barriers and nature - Types of classroom communication-verbal, non - verbal classroom communication- its barriers and solutions - **ICT ENRICHED LEARNING EXPERIENCES** - Application of ICT for Enriching Classroom Experiences – Application and use of Multimedia Educational Software for Classroom situations – Use of Internet based media for teaching and learning enrichment - learning using computers- Internet and Activities – Collaborative learning using group discussion, projects - field visits - blogs - etc.

UNIT - III ICT IN EDUCATION

E-learning – Meaning - Advantages and Disadvantages – Open Educational Resources - Concept and Significance - Internet and Education - Critical Issues in Internet usage – Authenticity - Addiction - Plagiarism, - Ethical and Legal Standards - **INTERNET AND ITS APPLICATIONS** - Introduction - History of the internet- Understanding WWW- Web browsers - Favorites and bookmarks - Kinds of information available - Parts of internet, searching the net, researching on the net - intranet.

UNIT – IV INTRODUCTION TO CYBER SECURITY

Defining Cyberspace and Overview of Computer and Web-technology, Architecture of cyberspace, Communication and web technology, Internet, World wide web, Advent of internet, Internet infrastructure for data transfer and governance, Internet society, Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security.

UNIT – V CYBER CRIME AND CYBER LAW

Classification of cybercrimes, Common cybercrimes- cybercrime targeting computers and mobiles, cybercrime against women and children, financial frauds, social engineering attacks, malware and ransom ware attacks, zero day and zero click attacks, Cybercriminals modus-operandi . Reporting of cybercrimes, Remedial and mitigation measures, Legal perspective of cybercrime, IT Act 2000 and its amendments, Cybercrime and offences, Organisations dealing with Cybercrime and Cyber security in India, Case studies.

SESSIONAL ACTIVITIES:

- Use various social networks in teaching and learning and report their effectiveness on learning of the students.


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- Prepare a communication module on any-one topic and analyse its effectiveness for student learning.
- Prepare a multimedia package on any one topic to enrich the teaching - learning process.
- Submit a report on critical issues in utilization of internet among learners.
- Organize a seminar on the impact of Cyber security in Educational institutions.
- Prepare various types of graph highlighting the performance of students.

REFERENCES:

- Aggarwal, D.D. (2004). Educational Technology. New Delhi: Sarup Publishing House.
- Aggarwal, J. C. (2013). Modern in Educational Technology. New Delhi Black Prints.
- Bharihok, D. (2000). Fundamentals of Information Technology. New Delhi: Pentagon Press.
- Bhattachary, S.P. (1994). Models of Teaching. Regency Publications.
- Byran, P. (1997). Discover the Internet Comdex Computer. New Delhi: Dream Tech Publishing.
- Conrad, K. (2001). Instructional Design for Web based Training. HRD Press
- Cyber Crime Impact in the New Millennium, by R. C Mishra, Aulter Press. Edition 2010
- Cyber Security Understanding Cyber Crimes, Computer Forensics and Legal Perspectives by Sumit Belapure and Nina Godbole, Wiley India Pvt. Ltd. (First Edition, 2011)
- Security in the Digital Age: Social Media Security Threats and Vulnerabilities by Henry A. Oliver Create Space Independent Publishing Platform. (Pearson, 13th November, 2001)
- Electronic Commerce by Elias M. Awad, Prentice Hall of India Pvt Ltd.
- Cyber Laws: Intellectual Property & E-Commerce Security by Kumar K. Dominant Publishers.
- Network Security Bible, Eric Cole, Ronald Krutz, James W. Conley, 2nd Edition, Wiley India Pvt. Ltd.
- Fundamentals of Network Security by E. Maiwald, McGraw Hill

E-RESOURCES

1. <https://www.theedadvocate.org/how-to-implement-critical-pedagogy-into-your-classroom/html?m=1>
2. <https://mypedagogyofenglish1975.blogspot.com/2020/07/chapter-08->

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pedagogical- analysis.

3. https://link.springer.com/chapter/10.1007/978-3-642-60968-8_12
4. <https://www.simplypsychology.org/case-study.html>
5. <https://learn-u.com/lesson/resource-based-learning>

COURSE OUT COMES:

By the end of course, the student teacher will be able to:

CO1: understand the concept of Information and Communication Technology

CO2: acquire knowledge about new horizons in ICT

CO3: Understand the cyber security threat landscape.

CO4: Develop a deeper understanding and familiarity with various types of cyber-attacks, Cybercrimes, vulnerabilities and remedies thereto.

CO5: Analyse and evaluate existing legal framework and laws on cyber security.

OUTCOME MAPPING

Course Outcomes	PROGRAMME SPECIFIC OUTCOMES											
	1	2	3	4	5	6	7	8	9	10	11	12
CO1			*							*		
CO2				*							*	
CO3					*				*			*
CO4			*			*			*			
CO5		*		*	*			*		*		

PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY (PRIST)

SCHOOL OF EDUCATION

VALUE ADDED COURSE

COURSE CODE:23130VAC01- GENERAL AWARENESS

OBJECTIVES

- To enable the students have a thorough understanding of the various important issues of National and international relevance
- To motivate the students to prepare for competitive exams
- To enable the students to have an overall view of the society in which they live.

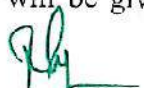
UNIT I Current Events of National and International Importance Current social issues, Political issues, Economic issues, Business issues, International issues, Environmental issues, Sports issues. (Issues that took place between June to September of that academic year will be given more weight age)


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Dean

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UNIT II General and World Geography Natural Resources of the world: Earth in space – Atmosphere, Atmospheric moisture, climate, Hydrosphere, Lithosphere, Landforms – Continents and oceans, mountains, plateaus and plains, Internal and External forces of Earth. Soils, Natural vegetation and wild life, Economic, Resources, Agriculture, Industry, Transport and communication, Continents, Important cities of the world.

UNIT III International Organizations United Nations Organizations, The Commonwealth, SAARC, ASEAN

UNIT IV Indian Geography Land forms, Drainage, climate, Natural vegetation and wild life, Natural Resources of India, Soils, Agriculture, Animal Husbandry and fishing, Mineral Resources, Energy, Industry, Transport and communication., The people, settlements and migration

UNIT V Economic and Social Development National income and structural change, Foreign Trade, Foreign capitals. Prices, Indian currency, Economy Development, Nature of Indian Economy, Social Demographics, poverty, Development Initiatives by the State/Central Government

OUTCOMES:

- Enable the students have a thorough understanding of the various important issues of National and international relevance
- Motivate the students to prepare for competitive exams
- Enable the students to have an overall view of the society in which they live.

Reference Books:

- Kosut.Marry (2012) Encyclopedia of Gender in media, New Delhi. Sage Publications?
- Carole Brugeiles & Sylvie Cromer (2009) Promoting Gender Equality through Text books Paris UNESCO Publications division.
- Byerly C.M 2011. Global Report on the status of women in the News media, Washihgtan DC. International Women's Media foundation.
- Fredrick Luie Aldama (2005) Brown on Brown Chilapola representations of gender. Sexuality and Ethnicity University of Texas press.

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**PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY (PRIST)
SCHOOL OF EDUCATION
VALUE ADDED COURSE
COURSE CODE: 23130VAC02 - MENTAL HEALTH**

Objectives

- To expose the students to the knowledge and skills of psychiatric social work
- To make the students understand the psychiatric disorders of child, youth and women
- To enable the students aware of coping strategies for psychiatric problems.


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Unit - I Psychiatric Social Work: Basic concepts, scope, management and treatment for psychiatric disorders.

Unit - II Major Psychiatric and Psychotic disorders - Schizophrenia - Its types - Mood Disorder - Other Bipolar Disorders.

Unit - III Minor Psychiatric disorders - Anxiety disorder - Panic disorder - Phobias - Post Traumatic Stress.

Unit - IV Other Psychiatric Disorders - Personality Disorders - Sleep disorder - Speech disorder - Psychosomatic disorder - Suicide.

Unit - V Childhood Psychiatric disorders - Mental Retardation - Learning disorders - Developmental disorders - Autism - Attention Deficit Hyper activity. Psychiatric disorder affecting Women, Youth and aged - Elimination of disorders.

TEXT BOOKS

Mane, F. and Gandevia, K., Mental Health in Indian Issues and Concerns(eds.),
Mumbai, Tata Institute of Social Sciences, 1993.

Sonia Austrian, Mental Disorders, Medications and Clinical Social Work, Columbia:
Columbia University Press, 2005.

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Berrios, G.E. and Dawson, J.H. Treatment and Management in Adult, Bailliere
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Nina Rovinelli Heller, Mental Health and Social Problems, New Delhi,
Rutledge: 2010.

Kappur, M. Sheppard, Ralph and Renate, Child Mental Health-Proceedings of the
Indo-US Symposium, eds, NIMHANS and ADAMHA, 1993

World Health Organisation, Geneva, The ICD 10 classification of Mental and
Behavioural Disorders, Clinical Description and Diagnostic Guidelines, New
Delhi: Oxford University Press, 1992.


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Course Outcomes

Upon completion of the course the students will

- Know the history, scope and changing perspectives of psychiatric problems.
- Understand the various types of psychiatric problems and their treatment
- Gain knowledge on modern treatment for psychiatric disorders.
- Comprehend the role of psychosomatic disorder in mental illness.

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VALUE ADDED COURSE**

COURSE CODE: 23130VAC03 - ENVIRONMENTAL AWARENESS

OBJECTIVES

- To understand the concept of environment ecology and Education.
- To grasp the significance of environmental education.
- To understand the nature and scope of environmental education with regard to Indian policies.
- To have faith in conservation of bio-diversity and understand population and


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environment.

- To understand the international effort and environment.

Unit-I: Introduction to Environmental Education Meaning and scope – Importance of Environmental Education - incorporating E.E at various levels- Primary, Secondary and Higher Secondary levels. Education about environment: Environment and Ecological factors – climate; Ecosystem – Structure and functions - Major ecosystems – aquatic and terrestrial system - Energy and its flow in ecosystem.

Unit-II: Environmental problems and protection Environmental pollution and its consequences – Air pollution, water pollution, land pollution, nuclear pollution, Ozone depletions - Urbanization and its impacts on environment - Deforestation and its impacts on environment – Ways of protecting, Management of Environment, Preserving and Restoring of environment.

Unit-III: India and Environmental Issues and Policies Environmental Awareness – Environmental problems of India - Environmental ethics - Nature conservation education movement – Social forestry scheme. Conservation of biodiversity :Meanings and need conservation of natural resources – soil, forest, water and wildlife In-situ conservation -National parks and sanctuaries ,– Biosphere Reserves –Man and Biosphere programme (MAP) –Ex –situ conservation, in –situ conservation, IUCN Red list categories, hot spots.

Unit-IV: Human population and environment Population growth, Indian population situations population explosion – family welfare programme – Environment and Human health.-Factors affecting environment-Acid rain, green house effect-Extinction of species-soil erosion and energy crisis.

Unit-V: International Efforts for Environmental Protection The Stockholm conference 1972 – Brundtland commission 1983 – Nairobi conference 1982 – The Rio Summit 1992 – the Rio Declaration at the earth charter – Major achievement of the Rio Summit – Main features of the Rio Declaration – Kyoto conference and part on Global Warming 1997 - present developments.

OUTCOMES:

- Discussion on the need and importance of protecting the environment
- Seminar on environmental awareness and environmental attitude
- Teacher talk on the need and importance of protecting water resources
- Preparation of a scrap book on issues related to environment
- Power point presentation on different types of environmental pollutions and its causes

REFERENCE BOOKS

- Archana, T. (2011). Environmental education. Kalpaz Publications.
- Havilah, S. N. (2013). Environmental education. A.P.H. Publishing Corporation.

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- Palmer, J.A. (1998). Environmental education in the 21st Century: Theory, practice, progress, and promise, Routledge.

**PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY (PRIST)
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VALUE ADDED COURSE**

COURSE CODE: 23L30VAC01 - BASICS OF LAPTOP MAINTANANCE AND OS INSTALLATION

Objectives:

To describe the social and professional impact and importance of technology

Identify career opportunities related to technology

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Unit: I

The Essentials of a computer and its components Laptop Expansion options.

Unit: II

Various motherboard technologies and identify important motherboard parts. Configuration changes to a computer.

Unit: III

Plan for a memory installation or upgrade- configuring windows operating systems.

Unit: IV

Wi-Fi and windows Networks hardware parts that connect to different port of a computer and laptop

Unit: V

Basic troubleshooting - Install, configure, and troubleshoot Windows, Android, and OS operating systems.

OUTCOMES:

- Application of any laptop technique
- Preparation of digital networks for power point presentation
- Develop a Blog of your own and add it in online
- Visit any one IT centre and prepare the report
- Setting of the apparatus for any one experiment in the laboratory and demonstrating the same

REFERENCES:

- Balagursamy, *Programming in Basic*, THIN, Delhi.
- Aggarwal J.C., (2000) Principles, Methods and Techniques of Teaching, Vikas Publishing House Pvt. Ltd.,
- Malvino, *Digital Computer Electronics*, TMH, Delhi.
- Krishna Sagar, (2005) ICTs and teacher training, Delhi: Tarun offset.
- Harley, H.K. (2007). *The internet: complete reference*. New Delhi: Tata McGraw Hill, pub.co. Ltd.
- Goel, H.K (2007). *Teaching of computer science*. New Delhi: R.Lall Books
- Brandwein Paul, F. (1955). *The Gifted as Future Scientist*, New York, Earcourt Deace and Falvery, P., Holbrook, J., Conian, D. (1994). *Assessing Students*, Longmans Publications, Foundation by Longmans, Penguin Books.
- Williams, B., (1999). *Internet for Teachers*, John Wiley & Sons, U.S.A. World Inc.
- Sharma, R.A. (2008). *Technological foundation of education*. Meerut: R.Lall Books Depot.

PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY (PRIST)
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VALUE ADDED COURSE

COURSE CODE: 23130VAC05 - TIME MANAGEMENT

OBJECTIVE:

At the end of the course the students will be able to demonstrate an understanding on

- Introduction, definition and objectives of time management.
- Importance of time management
- Process of time management, tip and strategies.


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- Benefits of time management
- Scientific narratives on effective use of time management
- Detecting difficulties in managing time.
- Procrastination and strategies to prevent it.
- Planning time and best practices of time management.

Unit I: Introduction to Time Management

Definition, Goals, Objectives and principles of time management, Importance and benefits of time management

Unit II: Time management Process and Procrastination, Costing time, Goal setting, Planning, Scheduling

Strategies to prevent procrastination

Unit III: Time Management Mistakes, Time wasters, Myths of time management, Common time management mistakes, Detecting difficulties, Symptoms of poor time management

Unit IV: Strategies for students, Benefits of time management, Management tips for students
Time management grid, Working smarter to enhance productivity

Unit V: Best Practices of time management, Practicum /Activities, Group Activities, Quiz and Individual Task

Course Outcome:

At the end of the course the students will be able to:

Demonstrate skill in setting goals for themselves.

Demonstrate skill in planning of their time.

Adopt strategies for time management.

REFERENCE BOOK

Books: Mancini M. Time Management United States of America. The McGraw-Hill Companies
Research Journals (indexed):

Khan IA. Time management practices used by secondary school heads in Khyber Pakhtunkhwa. Gomal University, DI Khan 2017.

Wilson, R., Joiner, K., & Abbasi, A. (2021). Improving students' performance with time management skills. Journal of University Teaching & Learning Practice, 18(4).

<https://ru.uow.edu.au/jutlp/vol18/iss4/16>

Romero-Pérez, C., & Sánchez-Lissen, E. (2022). Scientific Narratives in the Study of Student Time Management: A Critical Review. International and Multidisciplinary Journal of Social Sciences, 11(2), 60-86. <https://doi.org/10.17583/rimcis.10322>

<https://yokyo.globalindianschool.org/blog/importance-of-time-management-to-students>

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SCHOOL OF AGRICULTURE

DEPARTMENT OF AGRICULTURE

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BoS)*

Board: Agriculture

The Meeting of Board of Studies (BoS) was held as given below:

Name of the Body	Board of Studies
Department	Agriculture
Meeting No	13
Date and Time	15.07.2023 & 10.30 AM
Venue	School of Agriculture
Members Attended	The details are given in the ANNEXURE-I

AGENDA	
1	To confirm the minutes of BOS meeting held on 18.05.2022
2	Action taken on previous meeting minutes.
3	Discussion on the development of the B.Sc., (Hons) Agriculture new curriculum under the norms of ICAR Council for 2023.
4	Discussion on the total credit hours of the degree programme based on ICAR norms for 2023-2024.
5	Discussion on new courses to be added and re-order the courses based on ICAR norms for 2023-2024.
6	Discussion on mandatory Elective courses on respective semesters for 2023-2024.
7	Discussion on Bridge courses to be adopted for 2023-2024.
8	Discussion on Non-Gradual compulsory courses for 2023-2024.
9	Discussion on activities for the advanced learners.
10	Discussion on question paper setting based on Bloom's taxonomy model.
11	Other academic activities of the department (Seminars, Workshops).
	Other academic activities and skill enhancement activities of the students (Input gallery, Vocabulary skill enhancement, Seminars, Crop production and Initiation of student's market).



MINUTES OF THE BOARD OF STUDIES MEETING

Board:

The Chairman of BoS welcomed all the panel members for the meeting. The item listed in the agenda were taken for discussion.

The following are the minutes of the meeting

Agendum I: To confirm the minutes of BOS meeting held on 18.05.2022

Discussion: The minutes of the Board of Studies meeting held on 18.05.2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.

Resolution: The Board resolved to accept the same.

Agendum II: The action taken on the previous meeting minutes.

Discussion: Action taken report of the decisions made in the previous BOS and approved by the academic council. Action taken report was presented in the BOS.

Resolution: The Board resolved to accept the same.

Agendum III: Discussion on the development of the B.Sc., (Hons) Agriculture new curriculum under the norms of ICAR Council for 2023.

Discussion: A draft curriculum for B.Sc., (Hons) Agriculture was proposed with modification to committee and the following points were discussed.

- The members wanted to confirm the total number of credits accounting for 184 credit hours which includes Rural Agricultural Work Experience Programme and Experiential Learning Programme.

The Dean and the External Members of BOS informed that it was done according to the norms of Indian Council of Agricultural Research (ICAR) and will put forth this to the Academic council.

Resolution: The Board resolved to accept the same. New syllabus with framed credit hours of ICAR rules for B.Sc., (Hons) Agriculture were discussed for revision and implementation. It will be effective from Academic year 2023-2024.

Agendum IV: Discussion on the total credit hours of the degree programme based on ICAR norms for 2023-2024.

Discussion: Credit hours in old regulation:

Semester	Core Courses		ELP Courses		Elective Courses		Research		Total credits for OGPA
	No.	Credits	No.	Credits	No.	Credits	No.	Credits	
I	11	23	-	-	-	-	-	-	23
II	9	22	-	-	-	-	-	-	22
III	11	23	-	-	-	-	-	-	23



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IV	9	20	-	-	1	3	-	-	23
V	9	20	-	-	1	3	-	-	23
VI	9	20	-	-	1	3	-	-	23
VII	-	-	1	14	-	-	1	6	20
VIII	-	-	2	20	-	-	-	-	20
Total	58	128	3	34	3	9	1	6	177

Revised Credit hours to be implemented:

Abstract of Distribution Pattern of courses and credit:

Semester	Number of courses	Credit (Theory+ Practical)
I	11	24 (14 + 10)
II	10	24 (15 + 9)
III	11	24 (13 + 11)
IV	10	25 (14 + 11)
V	11	24 (13 + 11)
VI	10	24 (15 + 9)
VII & VIII	4	41 (0 + 41)
Total		186 (85 + 101)

Summary of Credit hours:

S.No.	Title	Credit
1	Core Courses	137
2	Elective Courses	9
3	RAWE & ELP	40
	Total	186

Resolution: The Board resolved to accept the same. New syllabus with framed credit hours of ICAR rules for B.Sc., (Hons) Agriculture were approved. It will be effective from Academic year 2023-2024.

Agendum V: Discussion on new courses to be added and re-order the courses based on ICAR norms for 2023-2024.

- 23 AHS 202- Poultry and Fisheries Management
- 23 AHS 201- Livestock Management
- 23ECENT202- Urban Entomology (Ent)
- 23ECAEC203- Project Management (AEC)
- 23ECPAT 302- Antagonistic formulations
- 23EC AHS 301- Caprine and Ovine management(AHS)
- NEW VALUE ADDED COURSE**

- > Hi tech nursery
- > Conservation agriculture

Addition and re-order of new courses semester wise:

Agronomy			Credit
S.no.	Semester	Course code	Title
1	I	23AGR 101	Fundamentals of Agronomy
			3 (2+1)



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2	II	23 AGR 102	Introductory Agro meteorology & climate change	2 (1+1)
3	II	23 AGR 103	Irrigation Management	2 (1+1)
4	III	23 AGR 201	Weed Management	2 (1+1)
5	III	23 AGR 202	Introductory to Forestry	2 (1+1)
6	III	23 AGR 203	Crop Production Technology- I (Kharif crops)	2 (1+1)
7	IV	23 AGR 204	Practical Crop Production- I	1 (0+1)
8	IV	23 AGR 205	Crop Production Technology- II (Rabi crops)	2 (1+1)
9	V	23 AGR 301	Practical Crop Production- II	1 (0+1)
10	V	23 AGR 302	Rainfed Agriculture, Watershed Management and Secondary Agriculture	3 (2+1)
11	VI	23 AGR 303	Farming Systems and Organic farming for sustainable agriculture	3 (2+1)
			Total	23 (12+11)

Genetics and Plant Breeding

S.no.	Semester	Course code	Title	Credit
1	I	23 GPB 101	Fundamentals of Crop Physiology	3 (2+1)
2	II	23 GPB 102	Fundamentals of Genetics	3 (2+1)
3	III	23 GPB 201	Fundamentals of Plant Breeding	3 (2+1)
4	IV	23 GPB 202	Principles of Seed Technology	3 (2+1)
5	V	23 GPB 301	Crop Improvement-I (Kharif crops)	2 (1+1)
6	VI	23 GPB 302	Crop Improvement-II (Rabi crops)	2 (1+1)
			Total	16 (10+6)

Soil Science and Agricultural Chemistry

S.no.	Semester	Course code	Title	Credit
1	I	23 SOL 101	Fundamentals of Soil Science	3 (2+1)
2	II	23 SOL 102	Manures, Fertilizers and Soil Fertility Management	3 (2+1)
3	III	23SOL 201	Problem Soils and their management	2 (1+1)
4	V	23SOL 301	Geoinformatics, Nanotechnology and Precision farming	2 (1+1)
			Total	10 (6+4)

Entomology

S.no.	Semester	Course code	Title	Credit
1	II	23 ENT 101	Fundamentals of Entomology	3 (2+1)
2	III	23 ENT 201	Management of beneficial insects and Introductory Nematology	2 (1+1)
3	V	23 ENT 301	Pests of Crops and Stored Grain and their Management	3 (2+1)
4	VI	23 ENT 302	Insect Ecology & Integrated pest	3 (2+1)



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			management	
			Total	11 (7+4)

Plant Pathology

S.no.	Semester	Course code	Title	Credit
1	I	23 PAT 101	Fundamentals of Plant Pathology	3 (2+1)
2	IV	23PAT 201	Diseases of Field and Horticultural Crops I	3 (2+1)
3	V	23PAT 301	Diseases of Field and Horticultural Crops II	3 (2+1)
4	VI	23PAT 303	Principles of Integrated Disease Management	3 (2+1)
			Total	12 (8+4)

Horticulture

S.no.	Semester	Course code	Title	Credit
1	I	23HOR 101	Fundamentals of Horticulture	2 (1+1)
2	II	23HOR 102	Production Technology for Fruit and Plantation Crops	3 (2+1)
3	III	23HOR 201	Production Technology for Vegetables, Spices and Protected Cultivation	3 (2+1)
4	IV	23HOR 202	Production Technology for Ornamental Crops, MAP and Landscaping	3 (2+1)
5	VI	23HOR 302	Post-harvest Management and Value Addition of Fruits and Vegetables	2 (1+1)
			Total	13 (8+5)

Agricultural Microbiology

S.no.	Semester	Course code	Title	Credit
1	I	23AGM 101	Agricultural Microbiology	3 (2+1)
2	III	23AGM 201	Principles of Food Science & Nutrition	2 (1+1)
3	IV	23AGM 202	Environmental Studies & Disaster Management	3 (2+1)
			Total	8 (5+3)

Agricultural Economics

S.no.	Semester	Course code	Title	Credit
1	II	23AEC 101	Fundamentals of Agricultural Economics	2 (1+1)
2	III	23AEC 201	Farm Management, Production & Resource Economics	2 (1+1)
3	IV	23AEC 202	Agricultural Marketing, Trade & Prices	2 (1+1)
4	V	23AEC 301	Agri Business Management	2 (1+1)



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5	V	23AEC 302	Intellectual Property Rights	1 (1+0)
6	VI	23AEC 303	Agricultural Finance, Banking and Cooperation	2 (2+0)
			Total	11 (7+4)

Agricultural Extension

S.no.	Semester	Course code	Title	Credit
1	I	23EXT 101	Rural Sociology & Educational Psychology	2 (2+0)
2	II	23EXT 102	Fundamentals of Agricultural Extension Education	3 (2+1)
3	V	23EXT 301	Communication Skills and Personality Development	2 (1+1)
4	VI	23EXT 302	Entrepreneurship Development and Business Communication	2 (1+1)
			Total	9 (6+3)

Animal Husbandry

S.no.	Semester	Course code	Title	Credit
1	III	23AHS 201	Livestock Management	2 (1+1)
2	IV	23AHS 202	Poultry and Fisheries Management	2 (1+1)
			Total	4 (2+2)

Civil and Mechanical Engineering

S.no.	Semester	Course code	Title	Credit
1	III	23AEG 201	Introductory Soil and Water Conservation Engineering (Civil)	2 (1+1)
2	VI	23AEG 301	Farm Machinery, Power and Renewable Energy Sources (Mech)	2 (1+1)
			Total	4 (2+2)

Plant Biochemistry and Biotechnology

S.no.	Semester	Course code	Title	Credit
1	II	23BIO 101	Fundamentals of Plant Biochemistry and Biotechnology	2 (1+1)
			Total	2 (1+1)

Statistics

S.no.	Semester	Course code	Title	Credit
1	VI	23STA 301	Statistical methods	2 (1+1)
			Total	2 (1+1)

Computer Science

S.no.	Semester	Course code	Title	Credit
1	V	23COM 301	Agri- Informatics	2 (1+1)
			Total	2 (1+1)

English

S.no.	Semester	Course code	Title	Credit



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1	1	23ENG 101	Comprehension & Communication Skills in English	2 (2+0)
			Total	2 (2+0)
<p>Resolution: The Board resolved to accept the same. New syllabus with enhancement of ICAR rules for B.Sc., (Hons) Agriculture is revised and approved. It will be effective from Academic year 2023-2024.</p>				
<p>Agendum VI: Discussion on mandatory elective courses on respective semesters for 2023-2024.</p>				
<p>Discussion: Elective courses were discussed and the School of Agriculture proposed the following courses:</p> <ul style="list-style-type: none"> ➤ 23EC ENT 202 Urban Entomology 3 (2+1) ➤ 23EC PAT 302 Antagonistic formulations 3 (2+1) ➤ 23EC AEC 303 Project Management 3 (2+1) ➤ 23EC AHS 301 Caprine and Ovine Management 3 (2+1) 				
<p>Resolution: The Board resolved to accept the same.</p>				
<p>Agendum VII: Discussion on Bridge courses to be adopted for 2023-2024.</p>				
<p>Discussion: Bridge courses in biology and mathematics will be conducted for those candidates who have not undergone the respective courses during their higher secondary programme. These courses will be offered for 8 weeks @ 2 hours/ week from the date of commencement of the programme.</p> <ul style="list-style-type: none"> ➤ Semester I- MAT 001 Elementary Mathematics (Contact hours 2) Semester I- GPB 002 Introductory Biology (Contact hours 2) 				
<p>Resolution: The Board resolved to accept the same.</p>				
<p>Agendum VIII: Discussion on Non-Gradual compulsory courses for 2023-2024.</p>				
<p>Discussion: Semester I- TAM 111/ EXT 111- Tamil/ Agricultural Heritage (Agricultural Extension)</p> <p>Semester VIII- EXT 411- Educational Tour II (Agricultural Extension)</p>				
<p>Resolution: The Board resolved to accept the same.</p>				
<p>Agendum IX: Discussion on activities for the advanced learners</p>				
<p>Discussion: Advanced learners should be encouraged to study and participate in ICAR exams, Post Graduate entrance for M.Sc., and MBA also motivated to attend the competitive exams of TNPSC/ UPSC.</p>				
<p>Resolution: The Board resolved to accept the same.</p>				
<p>Agendum X: Discussion on framing question paper based on Bloom's taxonomy model.</p>				
<p>Discussion: Bloom's taxonomy is a set of three hierarchical models used for classification of educational learning objectives into levels of complexity and specificity. The three lists cover the learning objectives in cognitive, affective and psychomotor domains. Each level is conceptually different which ultimately enhance the level of testing the students.</p>				
<p>Resolution: The Board resolved to accept the same.</p>				
<p>Agendum XI: Other academic activities of the department (seminars, workshops)</p>				
<p>Discussion: The online seminars, workshops, intercollegiate competitions conducted by the department during this academic year were discussed.</p>				



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Resolution: The Board resolved to accept the same.
Agendum XII: Other academic and skill enhancement activities of the students (Input gallery, vocabulary skill enhancement, seminars, crop production, initiation of student's market)
Discussion: The Input gallery presentation, enhancing language skill, conducting student's seminar, engaging students to do crop production activities and to initiate student's market.
Resolution: The Board resolved to accept the same.
Agendum XIII: Any other matters
Discussion: <ul style="list-style-type: none">➤ The Board of Studies in Agriculture recommends the panel of experts as external examiners for examination purposes as per guidelines of the institution.➤ The Board also suggested measures to improve the practical sessions to engage the students to do the activities.
As a result of various suggestions received, the board discussed keen notes to improve practical oriented curriculum and skill enhancement internship training.
Resolution: The Board resolved to consider the above mentioned recommendations

The chairman of Board of Studies (BoS) thanked all the members for their active participation and cordially invited them for the next meeting

Date: 15.07.2023


Dr. B. Chandra Sekaran

DEAN
School of Agriculture
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Institution Deemed to be University
U/s 3 of the UGC Act 1956
THANJAVUR - 613 403, TAMIL NADU



**PONNAIYAH RAMAJAYAM INSTITUTE OF
SCIENCE & TECHNOLOGY (PRIST)**

Declared as DEEMED-TO-BE-UNIVERSITY
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Syllabus Revision

Board: Agriculture

Semester: VI

Course Code/Name: 23AGR 303- Farming systems and Organic farming for sustainable agriculture

Unit	Existing	Changes
I	Components and Principles of Organic Cotton	Farming System
II	Organic sources of Nutrients	Resource Management
III	Non - Chemical weed and Pest disease management	Cropping system
IV	Indigenous Technical Knowledge (ITK)	Organic farming for sustainable Agriculture
V	Certification of labe	Organic certification and Labelling

PERCENTAGE OF SYLLABUS REVISED: 60

COURSE FOCUSES ON:

✓	Skill development		Entrepreneurial development
	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

(*insert ✓ wherever applicable*)



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Syllabus Revision

Board: Agriculture

Semester: VI

Course Code/Name: 23AGR 303- Farming systems and Organic farming for sustainable agriculture

Unit	Existing	Changes
I	Components and Principles of Organic Cotton	Farming System
II	Organic sources of Nutrients	Resource Management
III	Non - Chemical weed and Pest disease management	Cropping system
IV	Indigenous Technical Knowledge (ITK	Organic farming for sustainable Agriculture
V	Certification of labe	Organic certification and Labelling

PERCENTAGE OF SYLLABUS REVISED:60

COURSE FOCUSES ON:

✓	Skill development		Entrepreneurial development
	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

(*insert ✓ wherever applicable*)



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Semester:IV

Course Code/Name: 23ENT 302- Insect Ecology & Integrated pestmanagement

Unit	Existing	Changes
I	IPM: Introduction, history, importance, concepts, principles and tools of IPM	Insect Ecology
II	Economic importance of insect pests, diseases and pest risk analysis. Methods of detection and diagnosis of insect pest and disease	Integrated Pest Management and its Components
III	Calculation and dynamics of economic injury level and importance of Economic threshold level. Methods of control: Host plant resistance, cultural, mechanical, physical, legislative, biological and chemical control	Bio rational Pest Management Strategies
IV	Host plant resistance, cultural, mechanical, physical, legislative, biological and chemical control	Chemical methods of Insect Pest Management
V	Ecological management of crop environment. Introduction to conventional pesticides for the insect pests and disease management. Survey, surveillance and forecasting of Insect pest and diseases	Ecological Perspectives of chemical methods and IPM Strategies for crops Insecticide

PERCENTAGE OF SYLLABUS REVISED: 40

COURSE FOCUSES ON:

✓	Skill development		Entrepreneurial development
	Employability		Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

(*insert ✓ wherever applicable*)



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**Syllabus Revision- New Course
Board: AGRICULTURE**

Semester: III

Course Code/Name: 23AHS 201-Livestock Management

Unit	Content
I	Introduction to Livestock Management
II	General Cattle Management
III	Reproductive and Housing Management of Dairy cattle
IV	Feeding and General Health Management of Dairy cattle
V	Milk and Milk Processing

PERCENTAGE OF SYLLABUS REVISED: 100

COURSE FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

(*insert ✓ wherever applicable*)



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Semester:IV

Board:

Course Code/Name:3 AHS 202 POULTRY AND FISHERIES MANAGEMENT (1+1)

Unit	Content
I	Introduction to Poultry Management
II	Broiler Management
III	Layer Management - I
IV	Layer Management - II
V	Fisheries Management

PERCENTAGE OF SYLLABUS REVISED:

COURSE FOCUSES ON: 100

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

(*insert ✓ wherever applicable*)



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Semester:IV

Board: AGRICULTURE

Course Code/Name: 23ECPAT 302ANTAGONISTIC FORMULATIONS

Unit	Content
I	History and concepts of biological control, significance, merits and demerits of disease management with antagonists- antagonistic organisms- mycorrhizal associations, suppressive and conductive soils – general and specific suppression
II	Mechanisms of action of antagonistic organisms and its relevance in biological control competition, antibiosis, lysis, hyper parasitism and Induced Systemic Resistance - ISR-SAR -rhizosphere colonization, competitive saprophytic ability, hypovirulence
III	Factors governing biological management of crop diseases, role of physical environment, agroecosystem, and cultural practices in biological control of pathogens- Soil fungistasis, influence of root exudates on establishment of antagonists – Effect of agrochemicals and fertilizers on antagonists – comparative approaches to biological control of plant pathogens by resident and introduced antagonists
IV	Commercial production of antagonists. Antagonists available in market. Quality control system of biocontrol agents.
V	Delivery systems of antagonists, special methods of delivery systems - Control of soil-borne and foliar diseases. Compatibility of bioagents with agrochemicals and other antagonistic microbes.

PERCENTAGE OF SYLLABUS REVISED:

COURSE FOCUSES ON:

	Skill development		Entrepreneurial development
	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

(*insert ✓ wherever applicable*)



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Semester:IV

Board:

Course Code/Name:23IKS201 INDIAN KNOWLEDGE SYSTEM 2(1+1)

Unit	Content
I	Introduction to Indian Knowledge System (IKS), Definition, Concept and Scope of IKS (4)
II	IKS and Indian Scholars, Indian Literature (8)
III	Indian Traditional/tribal/ethnic communities, their livelihood and local wisdom
IV	Unique Traditional Practices and Applied Traditional Knowledge (8)
V	Protection, preservation, conservation and Management of Indian Knowledge System

PERCENTAGE OF SYLLABUS REVISED:

COURSE FOCUSES ON:

✓	Skill development		Entrepreneurial development
	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

(*insert ✓ wherever applicable*)



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Semester:VI

Board: AGRICULTURE

Course Code/Name:23 ECAHS 301 CAPRINE AND OVINE MANAGEMENT (2+1)

Unit	Content
I	Introduction to Goat and Sheep Management
II	Farming Practices
III	Nutrition
IV	Disease Management
V	Products Technology

PERCENTAGE OF SYLLABUS REVISED: 100

COURSE FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

(*insert ✓ wherever applicable*)



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Semester: V

Board: AGRICULTURE

Course Code/Name: 23ECPAT 302-Antagonistic formulations

Unit	Content
I	History and concepts of biological control, significance, merits and demerits of disease management with antagonists
II	Mechanisms of action of antagonistic organisms and its relevance in biological control competition, antibiosis, lysis
III	Factors governing biological management of crop diseases, role of physical environment, agroecosystem, and cultural practices in biological control of pathogens
IV	Commercial production of antagonists. Antagonists available in market. Quality control system of biocontrol agents.
V	Delivery systems of antagonists, special methods of delivery systems - Control of soil-borne and foliar diseases.

PERCENTAGE OF SYLLABUS REVISED: 100

COURSE FOCUSES ON:

✓	Skill development	Entrepreneurial development
	Employability	Professional Ethics
	Gender Sensitization	Human Values
	Social Awareness/Environment	Environment and Sustainability
	Intellectual Property Rights	

(*insert ✓ wherever applicable*)



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Board: AGRICULTURE

Semester:IV

Course Code/Name:23 ECENT 202 URBAN ENTOMOLOGY (2+1)

Unit	Content
I	Urban pests: their importance and habitats
II	Principles of urban pest management
III	Classification, risks, and non-synthetic insecticides Urban Pesticides part II: Synthetic insecticides, insecticide resistance Cockroaches part I: Identification, biology of important species Cockroaches part II: Cockroach
IV	Termite management and other wood destroying insects Ant diversity, biology, and economic importance Important ant pests and their management
V	Diversity and importance of stored product pests Management of stored product pests Mid-term exam Ectoparasites I: fleas, lice, ticks Ectoparasites II: Mites, kissing bugs, bed bugs, delusory parasites Occasional invaders I: Arthropods other than Insects

PERCENTAGE OF SYLLABUS REVISED: 100

COURSE FOCUSES ON:

✓	Skill development	Entrepreneurial development
	Employability	Professional Ethics
	Gender Sensitization	Human Values
✓	Social Awareness/Environment	Environment and Sustainability
	Intellectual Property Rights	

(*insert ✓ wherever applicable*)



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ATTENDANCE OF THE THIRTEENTH BOARD OF STUDIES MEETING

Board: AGRICULTURE

Date:15.07.2023

Time:10.30 AM

Venue: SCHOOL OF AGRICULTURE

The following members were present for the Board of Studies meeting

S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Online/ Physical	Signature (scan, ifonline)
1.	Chairman	Dr.B.Chandra Sekaran Dean School of Agriculture	Physical	
2.	<u>External Members</u>	Dr.S.Babu Professor, Department of Agronomy, Annamalai University	Physical	
3.	<u>External Members</u>	Mr.K.Magudapathy DunhillsPhytoherbs Vellakovil Tiruppur (Dt)	Physical	
4.	Professor	Dr. A.Udayakumar Professor Agronomy School of Agriculture	Physical	
5.	Professor	Dr.A.Sathyavelu Professor Agronomy School of Agriculture	Physical	
6.	Associate Professor	Dr.R.Sudha Associate Professor, Microbiology School of Agriculture	Physical	
7.	Associate Professor	Dr.P.Selva Raj Associate Professor Horticulture School of Agriculture	Physical	
8.	Assistant Professor	Mr.S.Tamilcovane Assistant Professor Genetics and plant breeding School of Agriculture	Physical	



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9.	Assistant Professor	Dr.K.K.Kumara kuru Assistant Professor Genetics and plant breeding School of Agriculture	Physical	<i>Kumaran</i>
10.	Alumni	Ms.A.Abinaya shiva sree	Physical	<i>Abinaya</i>
11.	Student Representatives	R.Kabilan	Physical	<i>Kabilan</i>
12.	Student Representatives	M.Yoga Shivani	Physical	<i>Yoga Shivani</i>

Date: 15.07.2023.

V. Srinivasan
BOS Chairman/HOD

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BOS MICROBIOLOGY

SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF MICROBIOLOGY

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)

Board: MICROBIOLOGY

The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	MICROBIOLOGY
Meeting no	13
Date and Time	21.06.2023
Venue	CRD -Seminar Hall
Members Attended	The details are given in the ANNEXURE-I

AGENDA

1	To confirm the minutes of BOS meeting held on 04.05.2022
2	Action taken on the previous Meeting Minutes.
3	Discussion on the development of the B.Sc Microbiology New Curriculum under R 2023
4	Discussion on the development of the M.Sc Microbiology New Curriculum under R 2023
5	Discussion on Four years Under Graduate Programme (FYUGP) B.Sc Microbiology Hons
6	Discussion on Value added courses
7	Any other matters Panel of examiner (ug/Pg)
20	Discussion on Value added courses

A. Xavier
HOD

D.A. XAVIER FERNANDES, M.Sc, M.Phil, Ph.D.,
Assistant Professor
Department of Microbiology
School of Arts & Science
Prst Deemed to be University, Thanjavur.

[Signature]

DEAN
Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 403, Tamilnadu.



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BOS MICROBIOLOGY

MINUTES OF THE BOARD OF STUDIES MEETING

Board: Microbiology

The 13th Board of Studies Meeting of the Department of Microbiology, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology was conducted as per the guidelines of the University Grants Commission on 21.6.2023 at 11.00 am through hybrid mode-online (Google meet) platform and offline mode. The following Members were present in the meeting.

Dr.A.Xavier Fernandes, Chairman of the Board of Studies Meeting welcomed all the Members and in her introducing speech, he explained the details of the Agenda and the academic matters to be discussed. The agenda of the meeting was taken up for discussion. The following points were discussed during the meeting. The resolutions made in the Meeting are given below.

The committee appreciated the formulation of syllabus for B.Sc., Microbiology programme to meet the criteria of the Education Empowerment and Social Relevance. In Addition, the Committee suggested the following corrections/modifications/ Suggestions in the Programme syllabus

- > Programme outcomes (PO) and Programme Specific Outcomes (PSO) to be restructured.
- > Course Outcomes (CO) to be restructured for all the Courses.
- > Recent reference books to be included in each course.

The following are the minutes of the meeting

Agendum 1:	To confirm the minutes of BOS meeting held on 04.05.2022
Discussion:	The minutes of the Board of Studies meeting held on 04 th May, 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
Resolution:	The Board resolved to accept the same.
Agendum 2:	Action taken on the previous Meeting Minutes.
Discussion:	Action taken report of the decisions made in the previous BoS and approved by the academic council. Action taken report was presented in the BOS.
Resolution:	The Board resolved to accept the same.



Agendum 3	Discussion on the development of the BSc Microbiology New Curriculum under Regulation 2023
Discussion:	<p>A draft curriculum for B.Sc Microbiology was proposed with modification to the committee and the following points were discussed.</p> <ul style="list-style-type: none">➤ The members wanted to confirm the total number of credits accounting for 148.➤ The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSCHE) requirements and will put forth this to the Academic Council. <p>New Course introduced:</p> <p>Core course:</p> <ul style="list-style-type: none">➤ 23116AEC13 - Fundamentals of Microbiology and Microbial Diversity➤ 23116AEC23 - Microbial Physiology and Metabolism➤ 23116AEC33 - Molecular Biology and Microbial Genetics➤ 23116AEC43 - Immunology and Immunotechnology➤ 23110AEC51 - Bacteriology and Mycology➤ 23111AEC52 - Virology and Parasitology➤ 23116AEC53 - Environmental and Agriculture Microbiology➤ 23110AEC61 - Food, Dairy and Probiotic Microbiology➤ 23111AEC62 - Recombinant DNA Technology <p>Core allied course:</p> <ul style="list-style-type: none">➤ 23116GEC14 - Biochemistry➤ 23116GEC24 - Bio Instrumentation➤ 23116GEC34 - Clinical Laboratory Technology <p>Practical Courses</p> <ul style="list-style-type: none">➤ 23116SEC15L - Fundamentals of Microbiology And Microbial Diversity Lab➤ 23116SEC16L - Biochemistry Labs➤ 23116SEC25L - Microbial Physiology and Metabolism Lab➤ 23116SEC26L - Bio Instrumentation Lab➤ 23116SEC35L - Molecular Biology and Microbial Genetics Lab➤ 23116SEC36L - Clinical Laboratory Technology Lab➤ 23116SEC45L - Immunology and Immunotechnology Lab➤ 23116SEC55L - Bacteriology, Mycology Virology and Parasitology Lab➤ 23116SEC56L - Environmental, Agriculture, Food and Probiotic Microbiology Lab <p>Skill Enhancement Courses</p> <ul style="list-style-type: none">➤ 23116SEC17 - Social & Preventive Medicine➤ 23116SEC18 - FC (Foundation Course)➤ 23116SEC27 - Nutrition & Health Hygiene



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BOS MICROBIOLOGY

- 23116SEC28 - Sericulture
 - 23116SEC37 - Microbial marketable products
 - 23116SEC38 - Aquaculture
 - 23116SEC47 - Vaccine Technology
 - 23116SEC48 - Apiculture
 - 23116DSE54A - Biosafety & bioethics
 - 23116DSE54B - Food Processing Technology
 - 23116DSE54C - Disaster Management
 - 23116DSE65A - Pharmaceutical Microbiology
 - 23116DSE65B - Entrepreneurship and Bio-business
 - 23116SEC57 - Internship/ Industrial Training/Field Visit
- Ability Enhancement Compulsory course**
- 231AECCMS - Communication Skills
 - 231AECCEVS - Environmental Studies
 - 231AECCVED - Value Education
- Audit Course**
- 231ACSIKWS-Indian Knowledge System

COURSE STRUCTURE

SEMESTER – I					
Course Code	Course Title	L	T	P	C
THEORY					
23110AEC11/ 23111AEC11/ 23132AEC11/ 23135AEC11	Tami – I/ Advanced English-I/ Hindi-I/ French - I	3	1	0	3
23111AEC12	English-I	3	1	0	3
23116AEC13	Fundamentals of Microbiology and Microbial Diversity	4	1	0	3
23116GEC14	Biochemistry	4	1	0	3
PRACTICAL					
23116SEC15L	Fundamentals of Microbiology and Microbial Diversity Lab	0	0	3	3
23115SEC16L	Biochemistry Lab	0	0	3	3
Skill Enhancement Course					
23116SEC17	Social & Preventive Medicine	2	0	0	2
23116SEC18	FC (Foundation Course)	2	0	0	2
AUDIT COURSE					
2311AECCINC	Indian Constitution	2	0	0	2
231LSCUV	Universal Human Values	-	-	-	1
Total Credit		20	4	6	25
SEMESTER – II					



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BOS MICROBIOLOGY

Course Code	Course Title	L	T	P	C	
THEORY						
23110AFC21/ 23111AFC21/ 23112AFC21/ 23113AFC21	Tamil - II Advanced English-II/ Hindi-II/ French - II	3	1	0	3	
23111AFC22	English-II	3	1	0	3	
23116AFC23	Microbial Physiology and Metabolism	4	1	0	3	
23116GFC24	Dia Instrumentation	4	1	0	3	
PRACTICAL						
23116SEC25	Microbial Physiology and Metabolism Lab	0	0	3	3	
23116GEC26	Dia Instrumentation Lab	0	0	3	3	
Skill Enhancement Course						
23116SEC27	Nutrition & Health Hygiene	2	0	0	2	
23116SEC28	Sericulture	2	0	0	2	
Ability Enhancement						
23116ECCMS	Communication Skills	2	0	0	2	
AUDIT COURSE						
23116SCBE	Basic Behavioral Etiquette	-	-	-	1	
		Total	20	4	6	25
SECOND YEAR						
SEMESTER - III						
23116AFC31/ 23111AFC31/ 23112AFC31/ 23113AFC31	Tamil - III Hindi-III Advanced English-III French - III	3	1	0	3	
23111AFC32	English-III	3	1	0	3	
23116AFC33	Molecular Biology and Microbial Genetics	4	1	0	3	
23116GFC34	Clinical Laboratory Technology	4	1	0	3	
PRACTICAL						
23116SEC35	Molecular Biology and Microbial Genetics Lab	0	0	3	3	
23116SEC36	Clinical Laboratory Technology Lab	0	0	3	3	
Skill Enhancement Course						
23116SEC37	Microbial marketable products	2	0	0	2	
23116SEC38	Aquaculture	2	0	0	1	
Ability Enhancement						
23116RMC39	Research Methodology	2	0	0	2	
AUDIT COURSE						



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BOS MICROBIOLOGY

231ACLSOAN	Office Automation	-	-	-	1	
		Total	20	4	6	24
SEMESTER – IV						
23110AEC41/ 23111AEC41/ 23132AEC41/ 23135AEC41	Tamil-IV Advanced English-IV Hindi-IV French – IV	3	0	0	3	
23111AEC42	English-IV	3	0	0	3	
23116AEC43	Immunology and Immunotechnology	4	1	0	3	
23116GEC44	Biostatistics & Bioinformatics	4	1	0	3	
PRACTICAL						
23116SEC45L	Immunology and Immunotechnology Lab	0	0	3	3	
23116SEC46L	Biostatistics & Bioinformatics Lab	0	0	3	3	
Skill Enhancement Course						
23116SEC47	Vaccine Technology	2	0	0	2	
23116SEC48	Apiculture	2	0	0	2	
Ability Enhancement						
23116BRC49	Participation in Bounded Research	2	0	0	2	
231AECCEVS	Environmental Studies	2	0	0	2	
AUDIT COURSE						
231LCSCLS	Leadership and Management Skills	0	0	0	1	
		Total	22	2	6	27
SEMESTER – V						
23116AEC51	Bacteriology and Mycology	5	1	0	4	
23116AEC52	Virology and Parasitology	5	1	0	4	
23116AEC53	Environmental and Agriculture Microbiology	5	1	0	4	
23116DSE54_	23116DSE54A - Biosafety & bioethics 23116DSE54B - Food Processing Technology 23116DSE54C - Disaster Management	5	0	0	3	
PRACTICAL						
23116SEC55L	Bacteriology, Mycology Virology and Parasitology Lab	0	0	3	3	
23116SEC56L	Environmental, Agriculture, Food, Dairy and Probiotic Microbiology Lab	0	0	3	3	
Skill Enhancement Course						
23116SEC57	Internship/Industrial Visit/Field Visit	0	0	0	2	
AUDIT COURSE						
231ACLSPSL	Professional Skills	-	-	-	1	
231AECCVED	Value Education	2	0	0	2	



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BOS MICROBIOLOGY

		Total	22	3	6	26
Third year						
SEMESTER – VI						
23116AEC61	Food, Dairy and Probiotic Microbiology	5	0	0	0	4
23116AEC62	Recombinant DNA Technology	5	0	0	0	4
PRACTICAL						
23116AEC63-	23116DSE65A - Pharmaceutical Microbiology 23116DSE65B - Entrepreneurship and Bio-business	0	0	5	0	3
23116PRW64	Project	0	0	13	0	4
23116SEC65	General awareness for competitive exam	2	0	0	0	2
231EXACT	Extension activity	-	-	-	-	1
AUDIT COURSE						
231ACSIKWS	Indian Knowledge System	-	-	-	-	2
		Total	17	0	13	20
Total Credits -Programme						140
Total Credits - Audit Courses						07
Total Credits						147

- The members of the Board approved the syllabus for "New Courses Introduced in UG MICROBIOLOGY" that was proposed to them. Refer to Annexure 4 for the same.
- The LOCF document was presented for discussion by the BoS members. The BoS members confirmed that the syllabus-related matter has been incorporated into the LOCF document. Refer to the LOCF document for the same.
- The syllabus for the course "Indian Knowledge System" was presented and discussed with the BoS members, followed by their approval. Refer to Annexure II for the same.
- The syllabus for the course "Disaster Management" was presented and discussed by the BoS members, followed by their approval. Refer to Annexure IV for the same.
- It was proposed that advanced learners should actively participate in peer teaching and be motivated to participate in more than one online course. Activities like the departmental newsletter, student-organised seminars, and journal club discussion forum should be coordinated by them. It was also recommended to conduct a departmental-level finishing school programme for the graduating batch of students. Board members also opined to



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	<p>encourage students to join individual summer internship programmes in reputed research institutions like NCBS, CCMB, and IISC in order to strengthen their skills and expertise in the field of Biochemistry.</p> <ul style="list-style-type: none">➤ It was resolved to make changes in Allied Microbiology I & Microbiology II for BSc Microbiology in the III semester and IV semester syllabuses. Refer to Annexure V for the same.➤ It was resolved to make changes in Allied Microbiology for BSc Biotechnology in the II semester syllabus. Refer to Annexure VI for the same.
Resolution:	The Board unanimously resolved and accepted the same. New syllabus for B.Sc Microbiology approved. It will be effective from the Academic year 2023-2024.
Agendum 4:	Discussion on the development of the MSc Microbiology New Curriculum under Regulation 2023
Discussion:	<p>A draft curriculum for M.Sc Microbiology was proposed with modification to the committee and the following points were discussed.</p> <ul style="list-style-type: none">➤ The members wanted to confirm the total number of credits accounting for 91.➤ The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSCHHE) requirements and the same will be put forth to be Academic Council for approval. <p>New Courses introduced: PG programme</p> <p>SEMESTER I</p> <ul style="list-style-type: none">➤ 23216AEC11 - General Microbiology and Microbial Diversity➤ 23216AEC12 - Immunology Immunomics and Microbial Genetics➤ 23216AEC13 - Forensic Science➤ 23216AEC14L - General Microbiology, Immunology and Genetics Lab➤ Discipline specific Elective Courses-I<ul style="list-style-type: none">a) 23216DSC15A- Bioinstrumentationb) 23216DSC15B - Health Hygienec) 23216DSC15C - Microalgal Technologyd) 23216DSC15D- Essentials of Laboratory Management and Biosafety➤ 23216RMC16 - Research Methodology <p>SEMESTER II</p> <ul style="list-style-type: none">➤ 23216AEC21 - Medical Bacteriology and Mycology➤ 23216AEC22 - Medical Virology and Parasitology➤ 23216AEC23 - Bioinformatics



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BOS MICROBIOLOGY

- > 23216SEC24L - Medical Microbiology Lab
- > **Discipline specific Elective Courses-II**
 - a) 23216DSC25A-Epidemiology
 - b) 23216 DSC25B - Clinical Diagnostic Microbiology
 - c) 23216 DSC25C - Bioremediation
 - d) 23216 DSC25D - Clinical Research and Clinical Trials
- > 23216GEC26 – Vermitechnology
- > 23216BRC27 - Participation in Bounded research
- > 23216SEC28 - Internship

SEMESTER III

- > 23216AEC31 - Soil and Environmental Microbiology
- > 23216AEC32 - Recombinant DNA Technology and Biotechnology
- > 23216AEC33 - Fermentation Technology and Pharmaceutical Microbiology
- > 23216AEC34L - Environmental Microbiology, rDNA Technology Lab
- > **Discipline specific Elective Courses-III**
 - a) 23216DSC35A- Biosafety, Bioethics and IPR
 - b) 23216DSC35B-Toxinology
 - c) 23216DSC35C-Water Conservation and Water Treatment
- > 23216GEC36 - Nanobiotechnology
- > 23216SEC37- Industrial Visit

SEMESTER IV

- > 23216AEC41 - Food & Dairy Microbiology
- > 23216AEC42 - Research Methodology & Biostatistics
- > 23216PRW43 - Project with Viva Voce
- > **Discipline specific Elective Courses-IV**
 - a) 23216DSC44A- Bioenergy
 - b) 23216DSC44B- Herbal Technology and Cosmetic Microbiology
 - c) 23216DSC44C - Life Science for Competitive Examinations
- > 23216DSC45 - Microbial Quality Control and Testing
- > 23216SEC46 - Industrial Visit

Course Code	Course Title	L	T	P	C
SEMESTER I					
23216AEC11	General Microbiology and Microbial Diversity	5	1	0	4
23216AEC12	Immunology Immunomics and Microbial Genetics	5	1	0	4
23216AEC13	Forensic Science	5	1	0	4
23216AEC14L	General Microbiology, Immunology and Genetics Lab	0	0	4	4
23216DSC15	Discipline specific Elective Courses-I	5	1	0	3
23216RMC16	Research Methodology	2	-	-	2
Total		22	4	4	21
SEMESTER II					
23216AEC21	Medical Bacteriology and Mycology	4	1	0	4
23216AEC22	Medical Virology and Parasitology	4	1	0	4
23216AEC23	Clinical Research and Clinical Trials	4	1	0	4



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23216SEC24L	Practical-II Medical Bacteriology, Mycology, Virology and Parasitology	0	0	4	4
23216DSC25	Discipline specific Elective Courses-II				
23216GEC26	Vermitechnology	4	1	0	3
23216BRC27	Participation in Bounded research	4	0	0	3
23216SEC28	Internship	2	-	-	2
		-	-	-	2
	Total	22	3	4	26
	SEMESTER III				
23216AEC31	Soil and Environmental Microbiology				
23216AEC32	Recombinant DNA Technology and Biotechnology	5	1	0	4
23216AEC33	Fermentation Technology and Pharmaceutical Microbiology	4	1	0	4
23216AEC34L	Environmental Microbiology & rDNA Technology Lab	4	1	0	4
23216DSC35	Discipline specific Elective Courses-III				
23216GEC36	Nanobiotechnology	0	0	4	4
23216SEC37	Industrial Visit	4	1	0	3
		4	1	0	3
	Total	21	5	4	24
	SEMESTER IV				
23216AEC41	Food & Dairy Microbiology				
23216AEC42	Marine Microbiology	4	1	0	4
23216PRW43	Project with Viva Voce	4	1	0	4
23216DEC44	Discipline specific Elective Courses-IV				
23216DSC45	Microbial Quality Control and Testing	0	0	10	4
23216SEC46	Industrial Visit	4	1	0	3
		4	1	0	3
		-	-	-	2
	Total	16	4	10	20
	Total Credits for the Program				
					91

Discipline specific Electives	
Semester	Discipline specific Elective Courses-I
I	a) 23216DSC15A- Bioinstrumentation b) 23216DSC15B - Health Hygiene c) 23216DSC15C - Microalgal Technology d) 23216DSC15 D - Essentials of Laboratory Management and Biosafety
	Discipline specific Elective Courses-II
II	a) 23216DSC25A-Epidemiology b) 23216 DSC25B - Clinical Diagnostic Microbiology c) 23216 DSC25C - Bioremediation d) 23216 DSC25D - Clinical Research and Clinical Trials
	Discipline specific Elective Courses-III
III	a) 23216DSC34A- Biosafety, Bioethics and IPR b) 23216DSC34B-Toxinology c) 23216DSC34C-Water Conservation and Water Treatment
	Discipline specific Elective Courses-IV
IV	a) 23216DSC44A- Bioenergy b) 23216DSC44B- Herbal Technology and Cosmetic Microbiology c) 23216DSC44C - Life Science for Competitive Examinations

The members of the Board approved the syllabus for "New Courses Introduced in PG Microbiology" that was proposed to them. Refer to Annexure V for the same.

Resolution	The Board resolved to accept the same. New syllabus for B.Sc Microbiology approved. It will be effective from the Academic year 2023-2024.
Agendum 5	Discussion on Four years Under Graduate Programme (FYUGP) BSc Microbiology Hons
Discussion	FYUGP detailed syllabus of the programme in the Annexure VI



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Resolution	The Board recommended the FYUGP for approved by the Academic council.
Agendum 6	Discussion on Value added courses
Discussion:	Value added courses (Job Oriented Courses) were discussed, the Department of Microbiology proposed two courses like Seaweed Culture and Advances in Plant Tissue Culture . <ul style="list-style-type: none">➤ Members had a vivid discussion over the suggestions made in the Parent Teachers Association Meeting for enrichment of the syllabus.➤ The Board Members verified and approved the panel of examiners for the upcoming End Semester Examinations.
Resolution:	The suggestions by the Board Members have been considered.
Agendum 7:	Any other matter with the permission of the chairpersons
Discussion:	The board also suggested measures to improve the creative and innovative thinking ability of the post graduate students by assigning critical research problems in project and practical. The based on the suggestions received from the parents, students, Alumni and employers'the curriculum was made more practical-oriented with provisions for internship in industry/Hospitals/Organizations.
Resolution:	The board resolved to recommend the above for the approval of the AC.

The chairman of Board of Studies (BOS) thanked all the members for their active participation and cordially invited them for the next meeting.

Date: 21.06.2023


(Dr.A.XAVIER FERNANDES)


HOD
Dr.A.XAVIER FERNANDES, M.Sc., M.Phil., Ph.D.,
Assistant Professor
Department of Microbiology
School of Arts & Science
Prist Deemed to be University, Thanjavur.


DEAN
Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 403, Tamilnadu.



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BOS

ATTENDANCE OF THE THIRTEENTH BOARD OF STUDIES MEETING

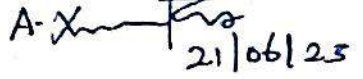
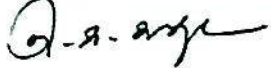



Board: Microbiology

Date: 21.06.2023

Time: 10.00am

Venue: Department of Microbiology

The following members were present for the Board of Studies meeting

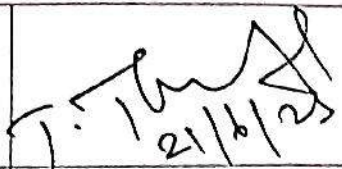
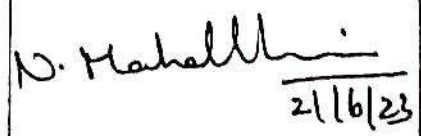
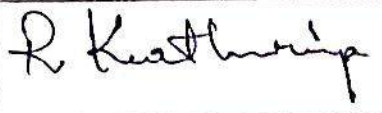



S.No	Name/Degree/Designation	Institute/Organization/ Full address	Online/ Physical	Signature
1	Dr.A. XAVIER FERNANDES Assistant Professor & Head Department of Microbiology	Chairman Ponnaiyah Ramajayam Institute of Science & Technology (PRIST)	Physical	 21/06/23
2	Dr. K.KAVITHA Assistant Professor, Dept. of Environmental & Herbal Science,	Academic Expert Dept. of Environmental & Herbal Science, Tamil University, Thanjavur.	Physical	 முனைவர் கு.க.கவிதா, எம்.எச்.சி.எம்.கே.பி.சி.டி.டி. இணைப்பாளியர் மற்றும் உரைத்தொலை கற்றல் அறியும் மற்றும் மலிவாக அறிவிக்க உரை வழிநடல் பணிகளைச் செயல்படுத்தும் - 613 010
3	Dr.MANJULA KESAVAN Managing Director, Bio Techno Solutions Training and Research Institute	Industrial Expert 4/271, Thalampoor Street, Thirunagar West, Ponmalai Patti, Trichy-004 TN	Physical	 
4	Dr. BAKRUDEEN ALI AHMED Professor & Senior Scientist, Department of Microbiology	Special Invite Ponnaiyah Ramajayam Institute of Science & Technology (PRIST)	Physical	
5	DR. T.USHADEVI Associate Professor Department of Microbiology	Associate Professor Ponnaiyah Ramajayam Institute of Science & Technology (PRIST)	Physical	Absent



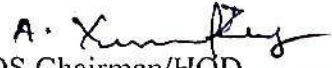
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6	Dr.T.THIRUSELVI Assistant Professor Department of Microbiology	Ponnaiyah Ramajayam Institute of Science & Technology (PRIST)	Physical	 21/6/23
7	Dr. N. MAHALAKSHMI Assistant Professor Department of Microbiology	Ponnaiyah Ramajayam Institute of Science & Technology (PRIST)	Physical	 21/6/23
8	S.Supraja	<u>Alumna</u> Research Assistant II TANBIO R&D Solution Trichy	Physical	Supraja 21/6/23 (S. SUPRAJA)
9	M.Manjari	<u>Student Representatives</u> III UG MICROBIOLOGY	Physical	Manjari 21/6/23 (M. MANJARI)
10	R. Karthick Raja	<u>Student Representatives</u> II PG MICROBIOLOGY	Physical	
11	Dr.T.Arivukanni Assistant Professor Department of Tamil	<u>Co-opted member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST)	Physical	
12	Prof. S.Rasakumar Assistant Professor Department of English	<u>Co-opted member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST)	Physical	
13	Dr.S.Ambiga HOD & Department of Biochemistry	<u>Co-opted member</u> Ponnaiyah Ramajayam Institute of Science & Technology (PRIST)	Physical	 21/6/23

Date: 02 - 06 - 2023


BOS Chairman/HOD

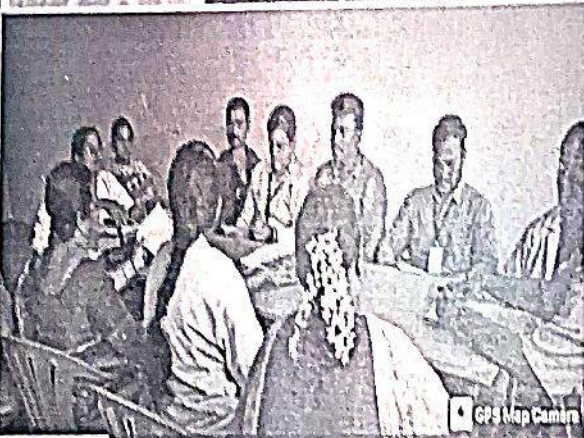
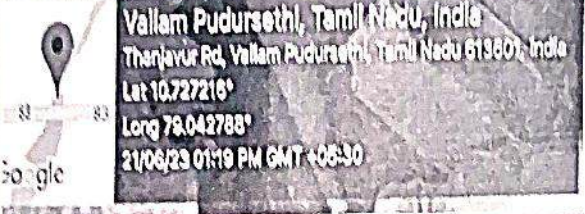
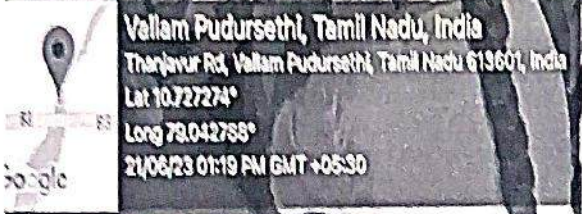
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BOS MICROBIOLOGY



A. Xavier
HOD

Dr. A. XAVIER FERNANDES, M.Sc. M.Phil. Ph.D.,
Assistant Professor,
Department of Microbiology
School of Arts & Science
Prist Deemed to be University, Thanjavur.

[Signature]
DEAN

Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 403, Tamilnadu.



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School of Arts and Science
Department of Physics
Minutes of the meeting of the Board of Studies (BoS)

Board: Physics

Details about the Board of Studies (BOS) Meeting, Physics are given below:

Name of the Body	Board of Studies
Department	Physics
Meeting year	2023-24
Date and Time	26.06.2023 & 3 : 00 P M
Venue	Department of Physics
Members Attended	The details are given in the ANNEXURE-I
AGENDA	
1	To confirm the minutes of previous BOS meeting that was held on 10.05.2022
2	Discussion on the development of the UG Physics New Curriculum under R 2023
3	Discussion on the development of the PG Physics New Curriculum under R 2023
4	Discussion on Four years Under Graduate Programme (FYUGP) UG Physics (Hons)
5	Discussion on value added courses
6	Any other matters

MINUTES OF THE BOARD OF STUDIES MEETING

Board: Physics

The Board of Studies Meeting, Department of Physics, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology was conducted as per the guidelines of the University Grants Commission on 26.06.2023 at 3:00 pm through offline mode.

Dr. S. Subashchandrabose, Chairman of the Board of Studies Meeting welcomed the members and in his introducing speech, he explained the details of agenda and the academic matters to be discussed. The committee appreciated the formulation of syllabus for Physics, programme to meet out the criteria of the Education Empowerment and Social Relevance. The agenda of the meeting was taken up for discussion. The following points were discussed during the meeting. The resolutions made in the meeting are given below.

AGENDA

Agendum 1: Confirmation of minutes of BOS meeting that was held on 10.05.2022
Discussion: The minutes of the Board of Studies meeting held on 10.05.2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.
Resolution: The Board resolved to accept the same.

Agendum 2: Discussion on the development of the UG Physics New Curriculum under R 2023.
Discussion: A draft curriculum for Physics was proposed with modification to committee and the following points were discussed.
➤ It was decided that the total number of credits for UG curriculum must be 147.
➤ The chairman informed that curriculum revision was carried out as per the Tamil Nadu State Council for Higher Education (TANSCHÉ) requirements and this will be put forth to the Academic Council.
1. The core paper, Properties of Matter was updated as Properties of Matter and Sound in the I semester.
2. In the III semester, Thermodynamics and Statistical Physics was included instead of Heat and Thermodynamics.
3. New topic, Spectroscopy was added in the core paper Optics and it is renamed as Optics and Spectroscopy in the IV semester.

SEMESTER - I					
Course Code	Course Title	L	T	P	C
Theory					
23110AEC11	Tamil-I	3	1	0	3
23111AEC11	Advanced English-I				
23132AEC11	Hindi-I				
23135AEC11	French-I				

23111AEC12	English-I	3	1	0	3
23113AEC13	Properties of Matter and Sound	4	1	0	4
23112AEC14	Allied Mathematics - I	5	1	0	4
Practical					
23113SEC15	Physics Practical - I	0	0	3	3
Skill Enhancement Course					
23113SEC16	Physics for Everyday Life	3	0	0	2
23113SEC17	Introductory Physics	3	0	0	2
Ability Enhancement Compulsory Course					
23113AECC1	Indian Constitution	2	0	0	2
Audit Course					
231ACLSUHV	Universal Human Values	0	0	0	1
Total		23	4	3	24

SEMESTER - II					
Course Code	Course Title	L	T	P	C
Theory					
23110AEC21	Tamil-II	3	1	0	3
23111AEC21	Advanced English-II				
23132AEC21	Hindi-II				
23135AEC21	French-II				
23111AEC22	English-II	3	1	0	3
23113AEC23	Mechanics And special theory of Relativity	4	1	0	4
23112AEC24	Allied Mathematics - II	5	1	0	4
Practical					
23113SEC25	Physics Practical - II	0	0	3	3
Skill Enhancement Course					
23113SEC26	Astro Physics	3	0	0	2
23113SEC27	Communication Systems	3	0	0	2
Ability Enhancement Compulsory Course					
23113AECC2	Communication Skills	2	0	0	2
Audit Course					
231ACLSUHV	Basic Behavioral Etiquette	0	0	0	1
Total		23	4	3	24

SEMESTER - III					
Course Code	Course Title	L	T	P	C
Theory					
23110AEC31	Tamil-III	3	1	0	3
23111AEC31	Advanced English-III				
23132AEC31	Hindi-III				
23135AEC31	French-III				
23111AEC32	English-III	3	1	0	3
23113AEC33	Thermodynamics and Statistical Physics	4	1	0	4

23112AEC34	Allied Chemistry - I	4	1	0	3
Practical					
23113SEC35	Physics Practical - III	0	0	3	3
23114SEC36	Allied Chemistry Practical - I	0	0	3	3
Skill Enhancement Course					
23113SEC37	Energy Physics	2	0	0	2
23113SEC38	Mathematical Physics	2	0	0	2
Ability Enhancement Compulsory Course					
23113AECC3	Research Methodology	1	0	0	2
23113AECC4	Environmental Studies	1	0	0	0
Audit Course					
231ACLSOAN	Office Automation	0	0	0	1
Total		20	4	6	26

SEMESTER - IV					
Course Code	Course Title	L	T	P	C
Theory					
23110AEC41	Tamil-IV	3	1	0	3
23111AEC41	Advanced English-IV				
23132AEC41	Hindi-IV				
23135AEC41	French-IV				
23111AEC42	English-IV	3	1	0	3
23113AEC43	Optics and Spectroscopy	4	1	0	4
23112AEC44	Allied Chemistry - II	4	1	0	3
Practical					
23113SEC45	Physics Practical - IV	0	0	3	3
23114SEC46	Allied Chemistry Practical - II	0	0	3	3
Skill Enhancement Course					
23113SEC47	Advanced Mathematical Physics	2	0	0	2
23113SEC48	Numerical Methods and C programming	2	0	0	2
Ability Enhancement Compulsory Course					
23113AECC5	Participation in Bounded research	1	0	0	2
23113AECC6	Environmental Studies	1	0	0	2
Audit Course					
231ACLSLMS	Leadership and Management Skills	0	0	0	1
Total		20	4	6	28

SEMESTER - V					
Course Code	Course Title	L	T	P	C
Theory					
23113AEC51	Atomic Physics	4	1	0	4
23113AEC52	Basic Electronics	4	1	0	3
23113AEC53	Electricity and Magnetism	4	1	0	3

23113DSC54_	(A) Lasers and Fiber Optics / (B) Disaster Management	4	1	0	2
23113DSC55_	(A) Materials Science / (B) Digital Photography	4	1	0	2
Practical					
23113SEC56	Physics Practical - V	0	0	3	3
Skill Enhancement Course					
23113SEC57	Value Education	2	0	0	2
23113SEC58	Internship / Carried out in II Year Summer Vacation	0	0	0	2
Audit Course					
231ACLSPSL	Professional Skills	0	0	0	1
Total		22	5	3	22

SEMESTER - VI					
Course Code	Course Title	L	T	P	C
Theory					
23113AEC61	Nuclear and Particle Physics	4	1	0	3
23113AEC62	Digital Electronics and Microprocessor 8085	4	1	0	3
23113AEC63	Solid State Physics	4	1	0	3
23113AEC64	Project Work	5	0	0	4
23113DSC65_	(A) Nano Science / (B) Medical Instrumentation	4	1	0	2
Practical					
23113SEC66	Physics Practical - VI	0	0	3	3
Skill Enhancement Course					
23113SEC67	General Awareness for Competitive Examination	2	0	0	2
Audit Course					
231ACSIKWS	Indian Knowledge System	0	0	0	2
231EXACT	NSS/NCC/YRC/Physical Education	0	0	0	1
Total		23	4	3	23
Total Credits -Programme					140
Total Credits - Audit Courses					07
Total Credits					147

- The syllabus for the course "Indian Knowledge System" was presented and discussed with the BoS members, followed by their approval. Refer to Annexure II for the same.

Resolution: The Board resolved to accept the same. New syllabus for B.Sc., - Physics approved. It will be effective from Academic year 2023-2024.

Agendum 3: Discussion on the development of the PG Physics New Curriculum under R 2023.

Discussion : The members discussed elaborately about the existing curriculum of PG courses. A draft curriculum for PG Physics was proposed with modification to committee and the following points were discussed.

- It was planned that the total number of credits for PG curriculum must be 95.
- The chairman informed that curriculum revision was carried out as per the Tamil Nadu State Council for Higher Education (TANSCHÉ) requirements and this will be put forth to the Academic Council.

1. Dr. S. Subashchandrabose proposed that PG curriculum can be updated based on the CSIR-NET syllabus so that students will be benefited.

2. Dr. M. Sivanantham proposed that the core course, Classical and Statistical mechanics in the current curriculum can be divided in to two papers, Classical mechanics (23213AEC11) in I semester and Statistical mechanics (23213AEC21) in II semester.

3. Dr. T. Ganesh, external member (academic expert) suggested that using the content of the core paper, spectroscopy in the TANSCHÉ model syllabus, the discipline specific elective course, Atomic and Molecular Physics (in II semester) can be revised.

4. The discipline specific elective paper “Nanoscience and Technology” was renamed as “Physics of nanoscience and technology”. Dr. L. Chinnappa, Dean suggested to include the reference book titled “Introduction to the characterization of nanomaterials and thin film” by Dr. T. Ganesh in the paper Physics of nanoscience and technology in the IV semester.

5. The core course, Microprocessor and Microcontroller was replaced by Statistical mechanics (23213AEC21) in II semester.

6. New core course, Linear and Digital ICs and Applications (23213AEC13) is added in the I semester.

7. New core courses, Advanced Optics (23213AEC41) and Spectroscopy (23213AEC42) are included in the IV semester.

8. New discipline specific elective courses, Energy Physics (23213DSC15A) and Communication Electronics (23213DSC15B) were introduced in the I semester. The discipline specific elective, Solar Energy Utilization (23213DSC25A) and Plasma Physics (23213DSC25B) were introduced in the II semester. In the III semester, discipline specific elective, Characterization of Materials (23213DSC34A) was added.

Course Code	Course Title	L	T	P	C
SEMESTER I					
23213AEC11	Mathematical Physics	5	1	0	4
23213AEC12	Classical Mechanics and Relativity	5	1	0	4
23213AEC13	Linear and Digital ICs and Applications	5	1	0	4
23213SEC14L	Spectroscopy and General Electronics Lab	0	0	4	4
23213DSC15_	Discipline Specific Elective – I	5	1	0	3
23213RMC16	Research Methodology	2	0	0	2
	Total	22	4	4	21
SEMESTER II					

23213AEC21	Statistical Mechanics	4	1	0	4
23213AEC22	Quantum Mechanics - I	4	1	0	4
23213AEC23	Condensed Matter Physics	4	1	0	4
23213SEC24L	Advanced General Experiments and Electronics Lab	0	0	4	4
23213DSC25_	Discipline Specific Elective -- II	4	1	0	3
23213SEC26	Medical Physics	4	1	0	3
23213BRC27	Participation in Bounded Research	2	0	0	2
23213SEC28	Industrial Visit	-	-	-	2
	Total	22	5	4	26
	SEMESTER III				
23213AEC31	Electromagnetic Theory	5	1	0	4
23213AEC32	Nuclear and Particle Physics	4	1	0	4
23213AEC33	Quantum Mechanics - II	4	1	0	4
23213SEC34L	Advanced Electronics Lab	0	0	4	4
23213DSC35_	Discipline Specific Elective – III	4	1	0	3
23213SEC36	Sewage And Waste Water Treatment And Reuse	4	1	0	3
23213SEC37	Internship / Industrial Activity	-	-	-	2
	Total	21	5	4	24
	SEMESTER IV				
23213AEC41	Advanced Optics	4	1	0	4
23213AEC42	Spectroscopy	4	1	0	4
23213DSC43_	Discipline Specific Elective – IV	4	1	0	3
23213DSC44_	Discipline Specific Elective – V	4	1	0	3
23213PRW45	Project Work	0	0	10	4
23213SEC46	Industrial activity	-	-	-	2
	Total	16	4	10	20
	Total Credits for the Programme				91

Resolution: The Board resolved to accept the same. New syllabus for M.Sc., - Physics approved. It will be effective from Academic year 2023-2024.

Agendum 4: Discussion on Four years Under Graduate Programme (FYUGP) UG Physics (Hons)

Discussion: The committee discussed about the syllabus of the FYUGP programme. Detailed syllabus of the FYUGP programme is provided in the Annexure VI

Resolution: The committee recommended and approved the syllabus of the FYUGP programme.

Agendum 5: Discussion on value added courses

Discussion: Introduction of new value added courses were discussed, the department of Physics proposed two courses such as certificate course on regulated power supply and certificate course on cosmology and structure formation.

Resolution: The committee recommended and approved all courses.

Agendum 6: Any other matters

Discussion:

- The board also suggested measures to improve the creative and innovative thinking ability of the post graduate students by assigning critical research problems in project and practical.
- The based on the suggestions received from the parents, students, alumni and employers' the curriculum was made more practical-oriented with provisions for internship in industry/hospitals/organizations.

Resolution: The board resolved to recommend the above for the approval of the Academic Council.

BOS committee resolved to recommend the syllabus revision for UG Physics and UG Physics and requested the Academic Council for approval.

The chairman of Board of Studies (BOS) thanked all the members for their active participation and cordially invited them for the next meeting.



Date: 26.06.2023

Dean

Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 463, Tamilnada.



Signature

(Dr. S. Subashchandrabose)

BOS Chairman/HOD Seal
The Head, Department of Physics,
PRIST Deemed to be University,
Vallam, Thanjavur-613403.
Tamilnadu, India.

ATTENDANCE OF THE BOARD OF STUDIES MEETING

Board: Physics

Date: 26.06.2023



Venue: Department of Physics

Time: 3 pm



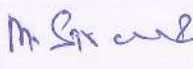
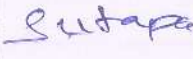
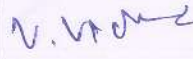


The following members were present for the Board of Studies meeting

Chair: Dr. S. Subashchandrabose, M.Sc., M.Phil., Ph. D, Professor & HOD




External Members

S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Signature
1	Dr. T. Ganesh, M.Sc., M.Phil., M. Tech., Ph.D., Associate Professor	Department of Physics Rajah Serfoji Government College, Thanjavur- 613005	
2	Mr. K. Amirtha Ganesh, M.E., Chief Innovation Officer, Three Dots Innovations	Three Dots Innovations LLP Plot No.121, Rahman Nagar, Neelagiri Thanjavur- 613004	

Internal Members

S.No.	Name/Degree/Designation	Department	Signature
1	Dr. S. Subashchandrabose, M.Sc., M.Phil., Ph.D, HOD, Professor	Physics	
2	Dr. L. Chinnappa, M.Sc., M. Phil. Ph.D., PGDCA., Dean & Professor, School of Arts and Science	Dean & Professor, School of Arts and Science	
3	Dr. M. Sivanantham M.Sc., M.Phil., Ph.D, Associate Professor	Physics	
4	Dr. Sutapa Ghosh M.Sc., Ph.D, Associate Professor	Physics	
5	Dr. V. Vidhya M.Sc., M.Phil., Ph.D, Assistant Professor	Physics	
6	Mr. K. Swaminathan, M.Sc., M.Phil., Assistant Professor	Physics	
7	Dr. K. Vinoth M.Sc., M.Phil., Ph.D, Assistant Professor	Physics	

Invited Participants

S.No.	Name/Degree/Designation	Department/Class Institute/Organization/Address	Signature
1	Dr. L. Chinnappa, M.Sc., M. Phil, Ph.D., PGDCA., Dean & Professor, School of Arts and Science	Dean & Professor, School of Arts and Science, PRIST Deemed to be University, Thanjavur	
2	K.T. Barshini, B. Sc., Student	PRIST Deemed to be University, Thanjavur	
3	M. Santhosh kumar, Alumni	PRIST Deemed to be University, Thanjavur	



Date: 26.06.2023 Dean

Dean of Arts & Science
PRIST Deemed to be University
Thanjavur - 613 403, Tamilnadu.



Signature
(Dr. S. Subashchandrabose)

BOS Chairman/HOD Seal

**The Head, Department of Physics,
PRIST Deemed to be University,
Vallam, Thanjavur-613403.
Tamilnadu, India.**

List of revised and new courses

Syllabus Revision		
Course Code	23113AEC13	Board: Physics
Course Name	Properties of Matter and Sound	Semester: I

Unit	Existing	Changes
I	ELASTICITY: Hooke's law – stress-strain diagram – elastic constants –Poisson's ratio – relation between elastic constants and Poisson's ratio – work done in stretching and twisting a wire – twisting couple on a cylinder – rigidity modulus by static torsion– torsional pendulum (with and without masses)	
II	BENDING OF BEAMS: cantilever– expression for Bending moment – expression for depression at the loaded end of the cantilever– oscillations of a cantilever – expression for time period – experiment to find Young's modulus – non-uniform bending– experiment to determine Young's modulus by Koenig's method – uniform bending – expression for elevation – experiment to determine Young's modulus using microscope	
III		SURFACE TENSION: definition – molecular forces– excess pressure over curved surface – application to spherical and cylindrical drops and bubbles – determination of surface tension by Jaegar's method–variation of surface tension with temperature
IV		VISCOSITY: definition – streamline and turbulent flow – rate of flow of liquid in a capillary tube – Poiseuille's formula – corrections – terminal velocity and Stoke's formula– variation of viscosity with temperature
V	ACOUSTICS OF BUILDINGS AND ULTRASONICS: Intensity of sound – decibel – loudness of sound –reverberation – Sabine's reverberation formula – acoustic intensity – factors affecting the acoustics of buildings. <i>Ultrasonic waves:</i> production of ultrasonic waves – Piezoelectric	

	crystal method – magnetostriction effect – application of ultrasonic waves	
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Percentage of Syllabus Revised: 40%

Courses focus on:

	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
✓	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113SEC15	Board: Physics
Course Name	Physics Practical - I	Semester: I

Unit	Existing	Changes
	<ol style="list-style-type: none"> 1. Determination of rigidity modulus without mass using Torsional pendulum. 2. Determination of rigidity modulus with masses using Torsional pendulum. 3. Determination of moment of inertia of an irregular body. 4. Verification of parallel axes theorem on moment of inertia. 5. Verification of perpendicular axes theorem on moment of inertia. 6. Determination of moment of inertia and g using Bifilar pendulum. 7. Determination of Young's modulus by stretching of wire with known masses. 8. Verification of Hook's law by stretching of wire method. 9. Determination of Young's modulus by uniform bending – load depression graph. 10. Determination of Young's modulus by non-uniform bending – scale & telescope. 11. Determination of Young's modulus by cantilever – load depression graph. 	
		<ol style="list-style-type: none"> 12. Determination of Young's modulus by cantilever – oscillation method 13. Determination of Young's modulus by Koenig's method – (or unknown load) 14. Determination of rigidity modulus by static torsion. 15. Determination of Y, n and K by Searle's double bar method.

	<p>16. Determination of surface tension & interfacial surface tension by drop weight method.</p> <p>17. Determination of co-efficient of viscosity by Stokes' method – terminal velocity.</p> <p>18. Determination of critical pressure for streamline flow.</p> <p>19. Determination of Poisson's ratio of rubber tube.</p> <p>20. Determination of viscosity by Poiseuille's flow method.</p> <p>21. Determination radius of capillary tube by mercury pellet method.</p> <p>22. Determination of g using compound pendulum.</p>
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Percentage of Syllabus Revised: 50%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

Syllabus Revision

Course Code	23113AEC23	Board: Physics
Course Name	Mechanics And special theory of Relativity	Semester: II

Unit	Existing	Changes
I	<p>LAWS OF MOTION: Newton's Laws– forces – equations of motion – frictional force – motion of a particle in a uniform gravitational field – types of everyday forces in Physics.</p> <p><i>Gravitation:</i> Classical theory of gravitation–Kepler's laws, Newton's law of gravitation – Determination of G by Boy's method – Earth-moon system – weightlessness – earth satellites – parking orbit – earth density – mass of the Sun – gravitational potential – velocity of escape – satellite potential and kinetic energy – Einstein's theory of gravitation – introduction –principle of equivalence – experimental tests of general theory of relativity – gravitational red shift – bending of light – perihelion of mercury.</p>	
II	<p>CONSERVATION LAWS OF LINEAR AND ANGULAR MOMENTUM: conservation of</p>	

	<p>linear and angular momentum – Internal forces and momentum conservation – center of mass – examples – general elastic collision of particles of different masses – system with variable mass – examples – conservation of angular momentum – torque due to internal forces – torque due to gravity – angular momentum about center of mass – proton scattering by heavy nucleus.</p>	
III	<p>CONSERVATION LAWS OF ENERGY: Introduction – significance of conservation laws – law of conservation of energy concepts of work- power – energy – conservative forces – potential energy and conservation of energy in gravitational and electric field – examples – non-conservative forces – general law of conservation of energy.</p>	
IV	<p>RIGID BODY DYNAMICS: translational and rotational motion – angular momentum – moment of inertia – general theorems of moment of inertia – examples – rotation about fixed axis – kinetic energy of rotation – examples – body rolling along a plane surface – body rolling down an inclined plane – gyroscopic precision – gyrostatic applications.</p>	
V		<p>SPECIAL THEORY OF RELATIVITY: Michelson-Morley experiment – frames of reference – Galilean Relativity – postulates of special theory of relativity – Lorentz transformation – consequences – time dilation – concept of simultaneity – Doppler effect – length contraction – variation of mass with velocity – Einstein's mass-energy relation – relativistic momentum – energy relation</p>

Percentage of Syllabus Revised: 20%

Courses focus on:

	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
✓	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113SEC25	Board: Physics
Course Name	Physics Practical - II	Semester: II

Unit	Existing	Changes
	1. Calibration of low range and high range voltmeter using potentiometer 2. Calibration of ammeter using potentiometer. 3. Measurement of low resistances using potentiometer. 4. Determination of field along the axis of a current carrying circular coil. 5. Determination of earth's magnetic field using field along axis of current carrying coil. 6. Determination of specific resistance of the material of the wire using PO box. 7. Determination of resistance and specific resistance using Carey Foster's bridge. 8. Determination of internal resistance of a cell using potentiometer. 9. Determination of specific conductance of an electrolyte. 10. Determination of e.m.f of thermo couple using potentiometer	
		11. Determination of capacitance using Desauty's bridge and B.G./Spot galvanometer/head phone. 12. Determination of figure of merit of BG or spot galvanometer. 13. Comparison of EMF of two cells using BG. 14. Comparison of capacitance using BG.

Percentage of Syllabus Revised: 30%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113AEC33	Board: Physics
Course Name	Thermodynamics and Statistical Physics	Semester: III

Unit	Existing	Changes
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I		THERMODYNAMICS - I: zeroth law and first law of thermodynamics – P-V diagram – heat engine – efficiency of heat engine – Carnot’s engine, construction, working and efficiency of petrol engine and diesel engines – comparison of engines.
II		THERMODYNAMICS - II: second law of thermodynamics – entropy of an ideal gas – entropy change in reversible and irreversible processes – T-S diagram – thermodynamical scale of temperature – Maxwell’s thermodynamical relations – Clausius-Clapeyron’s equation (first latent heat equation) – third law of thermodynamics – unattainability of absolute zero – heat death.
III		LOW TEMPERATURE PHYSICS: Joule-Kelvin effect – porous plug experiment – Joule-Thomson effect – Boyle temperature – temperature of inversion – liquefaction of gas by Linde’s Process – adiabatic demagnetization - specific heat capacity – specific heat capacity of gases C_p & C_v – Meyer’s relation – Joly’s method for determination of C_v – Regnault’s method for determination of C_p
IV	HEAT TRANSFER: modes of heat transfer: conduction, convection and radiation. <i>Conduction:</i> thermal conductivity – determination of thermal conductivity of a good conductor by Forbe’s method – determination of thermal conductivity of a bad conductor by Lee’s disc method. <i>Radiation:</i> black body radiation (Ferry’s method) – distribution of energy in black body radiation – Wien’s law and Rayleigh Jean’s law – Planck’s law of radiation – Stefan’s law – deduction of Newton’s law of cooling from Stefan’s law.	
V	STATISTICAL MECHANICS: definition of phase-space – micro and macro states – ensembles – different types of ensembles – classical and quantum Statistics – Maxwell-Boltzmann statistics – expression for distribution function – Bose-Einstein statistics – expression for distribution function – Fermi-Dirac statistics – expression for distribution function –	

comparison of three statistics.

Percentage of Syllabus Revised: 60%

Courses focus on:

✓	Skill development		Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
✓	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113SEC35	Board: Physics
Course Name	Physics Practical - III	Semester: III

Unit	Existing	Changes
	1. Determination of specific heat by cooling – graphical method. 2. Determination of thermal conductivity of good conductor by Searle’s method. 3. Determination of thermal conductivity of bad conductor by Lee’s disc method. 4. Determination of thermal conductivity of bad conductor by Charlton’s method. 5. Determination of specific heat capacity of solid. 6. Determination of specific heat of liquid by Joule’s electrical heating method (applying radiation correction by Barton’s correction/graphical method), 7. Determination of Latent heat of a vaporization of a liquid. 8. Determination of Stefan’s constant for Black body radiation. 9. Verification of Stefan’s-Boltzmann’s law. 10. Determination of thermal conductivity of rubber tube. 11. Helmholtz resonator. 12. Velocity of sound through a wire using Sonometer.	
		13. Determination of velocity of sound using Kunds tube. 14. Determination of frequency of an electrically maintained tuning fork 15. To verify the laws of transverse vibration using sonometer.

	16. Frequency of AC by using sonometer.
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Percentage of Syllabus Revised: 20%

Courses focus on:

	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113AEC43	Board: Physics
Course Name	Optics and Spectroscopy	Semester: IV

Unit	Existing	Changes
I	<p>INTRODUCTION TO OPTICS: postulates of geometrical optics <i>Lens:</i> thick and thin lenses – focal length, critical thickness, power and cardinal points of a thick lens – lens makers formula (no derivation) – aberrations: spherical aberration, chromatic aberrations, coma, and astigmatism – curvature of the field – distortion – chromatic aberrations methods. <i>Prism:</i> narrow angled prisms - dispersion, deviation, aberrations - applications rainbows and halos, constant deviation spectroscope. <i>Eyepieces:</i> advantage of an eyepiece over a simple lens – Huygen’s and Ramsden’s eyepieces, construction and working – merits and demerits of the eyepiece. <i>Resolving power:</i> Rayleigh’s criterion for resolution – limit of resolution for the eye – resolving power of, (i) Prism (ii) grating (iii) telescope <i>Fiber Optics:</i> Basic ideas of optical fibre – Numerical aperture – Stepped and graded index fibres – Fibre optic communication (Block diagram only).</p>	
II	<p>INTERFERENCE: division of wave front, Fresnel’s biprism – fringes with white light – division of amplitude: interference in thin</p>	

	<p>films due to, (i) reflected light, (ii) transmitted light – colours of thin films applications – air wedge – Newton's rings.</p> <p><i>Interferometers</i> : Michelson's interferometer – applications, (i) determination of the wavelength of a monochromatic source of light, (ii) determination of the wavelength and separation D_1 and D_2 lines of sodium light, (iii) determination of a thickness of a mica sheet.</p>	
III	<p>DIFFRACTION: Fresnel's assumptions – zone plate – action of zone plate for an incident spherical wave front – differences between a zone plate and a convex lens –Fresnel type of diffraction – diffraction pattern due to a straight edge – positions of maximum and minimum intensities – diffraction due to a narrow slit – Fraunhofer type of diffraction – Fraunhofer diffraction at a single slit – plane diffraction grating– experiment to determine wavelengths – width of principal maxima.</p>	
IV	<p>POLARISATION: optical activity – optically active crystals –polarizer and analyser–double refraction – optic axis, principal plane – Huygens's explanation of double refraction in uniaxial crystals – polaroids and applications – circularly and elliptically polarized light –quarter wave plate – half wave plate – production and detection of circularly and elliptically polarized lights – Fresnel's explanation – specific rotation – Laurent half shade polarimeter – experiment to determine specific rotatory power.</p>	
V		<p>SPECTROSCOPY: infra-red spectroscopy near infra-red and far infra-red – properties – origin of IR spectra – IR spectrophotometer – applications interpretation of IR spectra – CH, CO, CN bending and stretching • vibrational modes only – scattering of light – Raman effect –classical theory –quantum theory –mutual exclusion principle – Raman spectrometer- characteristics of Raman lines –applications – ultraviolet and visible spectroscopy –properties – spectrophotometer.</p>

Percentage of Syllabus Revised: 20%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113SEC45	Board: Physics
Course Name	Physics Practical - IV	Semester: IV

Unit	Existing	Changes
	<ol style="list-style-type: none"> 1. Determination of refractive index of prism using spectrometer. 2. Determination of refractive index of liquid using hollow prism and spectrometer 3. Determination of dispersive power of a prism. 4. Determination of radius of curvature of lens by forming Newton's rings. 5. Determination of thickness of a wire using air wedge. 6. Determination of Cauchy's Constants. 7. Determination of resolving power of grating 8. Determination of resolving power of telescope 9. Comparison of intensities using Lummer Brodhum Photometer. 10. Determination of range of motion using Searlesgoniometer. 	
		<ol style="list-style-type: none"> 11. Verification of Newton's formula for a lens separated by a distance. 12. Determination of refractive index of a given liquid by forming liquid lens 13. Determination of refractive index using Laser. 14. Determination of wavelengths, particle size using Laser/Monochromatic source. 15. Determination of resolving power of Diffraction grating using Laser 16. Determination of wire using Laser.

Percentage of Syllabus Revised: 30%

Courses focus on:

✓	Skill development		Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization	✓	Human Values

	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113AEC51	Board: Physics
Course Name	Atomic Physics	Semester: V

Unit	Existing	Changes
I	THE ELECTRON AND POSITIVE RAYS: e/m of electron by Dunnington's method – charge of electron by Millikan's oil drop method – properties of positive rays – e/m of positive rays by Thomson's parabola method (<i>problems calculation of e/m ratio of positive rays</i>) – mass spectrographs and uses – Bainbridge and Dempster's mass spectrographs	
II	PHOTOELECTRIC EFFECT: photoelectric emission – Leonard's experiment – Richardson and Compton experiment – laws of photoelectric emission – Einstein's photoelectric equation (<i>problems using Einstein's photoelectric equation</i>) – experimental verification by Millikan's method – photoelectric cell – photo emissive cell – photovoltaic cell – photo conducting cell – applications of photoelectric cells – photomultiplier.	
III	ATOMIC STRUCTURE: Sommerfield's relativistic atom model – vector atom model – various quantum numbers – L-S and J-J coupling – Pauli's exclusion principle – magnetic dipole moment of an electron due to orbital and spin motion – Bohr magneton – Stern and Gerlach experiment – Lande 'g' factor.	
IV	SPLITTING OF SPECTRAL LINES: excitation, ionisation and critical potentials – Davis and Goucher's method – optical spectra – spectral notation and selection rules – fine structure of sodium D-line – Zeeman effect – experimental arrangement and classical theory of normal Zeeman effect – Larmor's theorem – quantum theory of normal	

	Zeeman effect –anomalous Zeeman effect –explanation of splitting of D ₁ and D ₂ lines of sodium – Paschen Back effect - Stark effect (Qualitative only).	
V		X-Ray SPECTRA: X-ray – Coolidge tube – Properties – X-ray Spectra – Continuous and characteristics X-ray spectrum – Mosley’s law (Statement, Explanation and Importance) – Compton effect – Expression for change of wave length - X-ray diffraction-Bragg’s law- Bragg’s spectrometer- Powder crystal method – Quantum theory: The distribution of energy in the spectrum of a black body – its results - Planck’s hypothesis – derivation of Planck’s law of radiation

Percentage of Syllabus Revised: 20%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

New Course		
Course Code	23113AEC52	Board: Physics
Course Name	Basic Electronics	Semester: V

UNITS	COURSE DETAILS
UNIT-I	SEMICONDUCTORS DEVICES: <i>Diodes:</i> Introduction – Hall effect – Junction diodes – PN Junction – Biased PN Junction – Volt Ampere characteristic of a PN Junction – Zener diode – Tunnel diode – Backward diode. <i>Transistors:</i> Junction Transistor – Transistor construction – Modes of operation of a transistor – static characteristic in CB and CE modes – Transistor amplifier – Transistor Biasing.
UNIT-II	POWER ELECTRONICS: Introduction - power electronics - The Triac – Construction - Operations – Characteristics - Applications. The Diac – Operations – Applications of Diac – Lamp dimmer – heat controller. FET – SCR - UJT – Construction – Operations –Characteristics - advantages– applications - UJT over voltage detector.
UNIT-III	AMPLIFIERS: <i>Voltage and power amplifiers:</i> Classification of amplifiers – Transistor amplifiers in cascade – Power amplifiers – Class A power amplifier – Push Pull connection – push pull class B Power amplifier – Characteristics of an amplifier. <i>Feedback amplifiers:</i> feedback and related terms block diagram of a feedback amplifier- Transfer gain of an amplifier with feedback- Emitter follower circuit

UNIT-IV	OSCILLATORS: Introduction - Types of oscillators - Fundamental principle of oscillator - Concept of feedback oscillator - Tuned collector oscillator - Analysis - Hartley oscillators - Analysis - Colpitt's oscillator - Analysis - Phase shift oscillator - Analysis - Wien bridge oscillator - Analysis - Crystal oscillator - Analysis.
UNIT-V	OPERATIONAL AMPLIFIER: Differential amplifier - Basic circuit - Operation - CMRR - Operational amplifier - Characteristics - Circuit symbol - Frequency response - Slew rate - Applications - Inverting amplifier - Non inverting amplifier - Adder - Subtractor - Integrator - Differentiator.

Percentage of Syllabus Revised: 100%

Courses focus on:

	Skill development		Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
✓	Intellectual Property Rights		

Syllabus Revision

Course Code	23113AEC53	Board: Physics
Course Name	Electricity and Magnetism	Semester: V

Unit	Existing	Changes
I	ELECTROSTATICS: Gauss theorem and its application - Intensity at a point due to uniformly charged cylinders - Electrostatic potential - Deduction of Coulomb's law from Gauss law - Electrical potential - Equipotential surface - Potential due to a (i) dipole (ii) uniformly charged sphere - Capacitor - Principle of a capacitor - Spherical and cylindrical capacitors - Capacitors in series and in parallel - Energy of a charged capacitor - Energy loss due to sharing of charges.	
II	DIELECTRICS: Dielectrics-Polar and Non-polar dielectrics- Effect of electric field on dielectrics - Dielectric strength, Capacitance of a parallel plate condenser with dielectric slab between the plates - Electric displacement D - electric polarization P - Relation between D, E and P - Dielectric constant and electric susceptibility.	
III	MAGNETOSTATICS:	

	<p>Magnetic field – Intensity of magnetization – Permeability – Susceptibility – Relation between them – Potential due to dipole – Relation between potential and intensity – Properties of dia, para, fero magnetic materials – Hysteresis – B.H curve.</p> <p>Biot-Savart's law and its applications: (i) circular loop and (ii) solenoid, Divergence and curl of magnetic field, Ampere's Circuital Law and its application to Solenoid, Hall effect, determination of Hall coefficient and applications.</p>	
IV		<p>ELECTROMAGNETIC INDUCTION: Faraday's laws of Electromagnetic induction - Lenz's law - Self-induction - Self-inductance of a long solenoid – Mutual induction - Mutual inductance of two coils - Co-efficient of mutual induction – Energy stored in magnetic field - Relation between self-induction and mutual inductance – Anderson method – Eddy current – Electromagnetic damping - Co-efficient of coupling – Transformer theory.</p>
V		<p>ALTERNATING CURRENT AND ELECTROMAGNETIC WAVES: Alternating current - A.C Circuit with single components - Relation between current and voltage in LR and CR circuit - Phase and Vector diagrams - LCR series and parallel resonant circuit - Q —factor - Power in ac circuits - Wattless current - Power factor.</p> <p>Idea of displacement current - Maxwell's equations – Derivation - Maxwell's wave equation (with derivation) - Transverse nature of electromagnetic waves - Poynting theorem (Statement only)</p>

Percentage of Syllabus Revised: 40%

Courses focus on:

	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
✓	Gender Sensitization		Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113SEC56	Board: Physics
Course Name	Physics Practical - V	Semester: V

Unit	Existing	Changes
I	<ol style="list-style-type: none"> 1. Bi-prism – Determination of μ. 2. Thickness of a thin film of Bi-prism 3. Brewster's law – polarization 4. Y – by Corlus method. 5. Dispersive power of plane diffraction grating. 6. Diffraction a straight edge. 7. Kundt's tube – Velocity of sound, Adiabatic Young's modulus of the material of the rod. 8. Forbe's method – Thermal conductivity of a metal rod. 9. Spectrometer– Grating - Normal incidence - Wave length of Mercury spectral lines. 10. Spectrometer – Grating - Minimum deviation - Wave length of Mercury spectral lines. 11. Spectral response of photo conductor (LDR). 12. Potentiometer –Resistance and Specific resistance of the coil. 13. Potentiometer – E.M.F of a thermocouple. 14. Carey Foster's bridge - Temperature coefficient of resistance of the coil. 15. Deflection Magnetometer – Determination of Magnetic moment of a bar magnet and BH using circular coil carrying current. 16. Vibration magnetometer - Determination of BH using circular coil carrying current– Tan B position. 17. B.G – Figure of Merit – Charge Sensitivity 	
II		<ol style="list-style-type: none"> 1. Zener diode – voltage regulations 2. Bride rectifier using diodes 3. Clipping and clamping circuits using diodes. 4. Characteristics of a transistor –(CE mode) 5. Characteristics of a transistor –(CB mode). 6. RC coupled CE transistor amplifier - single stage. 7. Transistor Emitter follower. 8. Colpitt's oscillator -transistor. 9. Hartley oscillator - transistor. 10. Astable multivibrator - transistor. 11. Bistablemultivibrator - transistor. 12. FET - characteristics. 13. FET - amplifier (common drain) 14. UJT -characteristics

		15. AC circuits with L,C,R - Series resonance. 16. AC circuits with L,C,R - Parallel resonance. 17. Operational amplifier - inverting amplifier and summing. 18. Operational amplifier - non-inverting amplifier and summing. 19. Operational amplifier – differential amplifier 20. Operational amplifier - differentiator & integrator. 21. Operational amplifier - D/A converter by binary resistor method.
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Percentage of Syllabus Revised: 50%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113AEC61	Board: Physics
Course Name	Nuclear and Particle Physics	Semester: VI

Unit	Existing	Changes
I	PROPERTIES OF NUCLEUS: constituents of nucleus – isotopes, isobars, isotones – nuclear size, mass, density, charge, spin, angular momentum, magnetic dipole moment, electric quadrupole moment (qualitative) – binding energy – mass defect – packing fraction – nuclear stability – binding energy per nucleon graph – properties of nuclear force – meson theory of nuclear forces – Yukawa potential. NUCLEAR MODELS: liquid drop model – Weizacker’s semi-empirical mass formula – shell model – magic numbers.	
II	RADIO ACTIVITY: radio activity – laws of radioactivity – radioactive disintegration, decay constant, half-life, mean-life (only final formulae) – units of radioactivity – successive disintegration – transient and secular equilibrium – properties of alpha, beta and gamma rays –	

	<p>Geiger-Nuttal law –α-ray spectra – Gammow's theory of α-decay (qualitative) –β-ray spectrum – neutrino theory of β-decay – nuclear isomerism – K-shell capture – internal conversion – non-conservation of parity in weak interactions.</p>	
III	<p>PARTICLE DETECTORS AND ACCELERATORS DETECTORS: Interaction between the energetic particles and matter – Heavy charged particles – Electrons – Gamma ray - gas detectors –ionization chamber - Solid State detector - Wilson Cloud chamber – Nuclear emission – Linear accelerators. <i>Accelerators:</i> linear accelerators - G-M counter – scintillation counter – photo multiplier tube (PMT) – semiconductor detectors – neutron detector – cyclotron – synchrotron – betatron– electron synchrotron – protonsynchrotron (bevatron)</p>	
IV	<p>NUCLEAR REACTIONS: types of nuclear reactions –conservation laws in nuclear reaction – Q-value– threshold energy – nuclear fission – energy released in fission – chain reaction – critical mass – nuclear reactor – nuclear fusion – sources of stellar energy – proton-proton cycle – Carbon-Nitrogen cycle – thermonuclear reactions – controlled thermonuclear reactions.</p>	
V	<p>COSMIC RAYS AND ELEMENTARY PARTICLES <i>Cosmic rays:</i> discovery of cosmic rays – primary and secondary cosmic rays – cascade theory of cosmic ray showers – altitude and latitude effects –discovery of positron – pair production – annihilation of matter – Van-Allen radiation belts – big-bang theory – future of the Universe (elementary ideas only). <i>Elementary particles:</i> particles and antiparticles – classification of elementary particles – types of fundamental interactions – quantum numbers of elementary particles – conservation laws and symmetry – quarks and types – quark model (elementary ideas only).</p>	

Percentage of Syllabus Revised: 20%

Courses focus on:

✓	Skill development		Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113AEC62	Board: Physics
Course Name	Digital Electronics and Microprocessor 8085	Semester: VI

Unit	Existing	Changes
I		NUMBER SYSTEMS AND LOGIC GATES: decimal, binary, octal, hexadecimal numbers systems and their conversions – codes: BCD, gray and excess-3 codes –code conversions – complements (1's, 2's, 9's and 10's) – binary addition, binary subtraction using 1's & 2's complement methods –basic logic gates -universal logic gates (NAND & NOR) – Boolean laws – De-Morgan's theorem – minimization techniques (Karnaugh map: 2, 3, 4 variables).
II	LOGIC DESIGNS: adders, half & full adder – subtractors, half & full subtractor – parallel binary adder – magnitude comparator – multiplexers (4:1) & demultiplexers (1:4), encoder (8-line-to-3-line) and decoder (3-line-to-8-line), BCD to seven segment decoder.	
III	REGISTERS AND COUNTERS: flip-flops: S-R Flip-flop, J-K Flip-flop, T and D type flip-flops, master-slave flip-flop, truth tables - registers:- serial in serial out and parallel in and parallel out – counters asynchronous:-mod-8, mod-10, synchronous - 4-bit & ring counter	
IV		MEMORY ELEMENTS: general memory operations, ROM, RAM (static and dynamic), PROM, EPROM, EEPROM, EAROM. IC – logic families: RTL, DTL, TTL logic, CMOS NAND & NOR Gates, CMOS Inverter, Programmable Logic Devices – Programmable Logic Array (PLA), Programmable Array Logic (PAL) - Magnetic tape – Magnetic disc – Bubble memory.
V		MICROPROCESSOR 8085: introduction to microprocessor – INTEL 8085 architecture – register organization –

	pin configuration of 8085, interrupts and its priority – Program Status Word (PSW) –instruction set of 8085 –addressing modes of 8085 –assembly language programming using 8085 –programmes for addition (8-Bit & 16-Bit), subtraction (8-Bit & 16-Bit), multiplication (8- Bit), division (8- Bit) – largest and smallest number in an array – BCD to ASCII and ASCII to BCD.
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Percentage of Syllabus Revised: 60%

Courses focus on:

	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

Syllabus Revision

Course Code	23113AEC63	Board: Physics
Course Name	Solid State Physics	Semester: VI

Unit	Existing	Changes
I	BONDING IN SOLIDS, CRYSTAL STRUCTURE: types of bonding –ionic bonding – bond energy of NaCl molecule –covalent bonding – metallic bonding – hydrogen bonding – Van-der-Waals bonding – crystal lattice – lattice translational vectors – lattice with basis – unit cell – Bravais' lattices – Miller indices – procedure for finding them –packing of BCC and FCC structures – structures of NaCl and diamond crystals –reciprocal lattice – reciprocal lattice vectors – properties – reciprocal lattices to SC, BCC and FCC structures – Brillouin zones – X-rays – Bragg's law(simple problems) – experimental methods: Laue method, powder method and rotating crystal method	
II	ELEMENTARY LATTICE DYNAMICS: lattice vibrations and phonons: linear monoatomic and diatomic chains. acoustical and optical phonons – qualitative description of the phonon spectrum in solids –Dulong and	

	<p>Petit's Law – Einstein and Debye theories of specific heat of solids – T^3 law (qualitative only) – properties of metals – classical free electron theory of metals (Drude-Lorentz) – Ohm's law – electrical and thermal conductivities – Weidemann-Franz' law – Sommerfeld's quantum free electron theory (qualitative only) – Einstein's theory of specific heat capacity.</p>	
III	<p>MAGNETIC PROPERTIES OF SOLIDS: permeability, susceptibility, relation between them – classification of magnetic materials – properties of dia, para, ferro, ferri and antiferromagnetism – Langevin's theory of diamagnetism – Langevin's theory of paramagnetism – Curie-Weiss law – Weiss theory of ferromagnetism (qualitative only) – Heisenberg's quantum theory of ferromagnetism – domains – discussion of B-H curve – hysteresis and energy loss – soft and hard magnets – magnetic alloys.</p>	
IV	<p>DIELECTRIC PROPERTIES OF MATERIALS: polarization and electric susceptibility – local electric field of an atom – dielectric constant and polarisability – polarization processes: electronic polarization – calculation of polarisability – ionic, orientational and space charge polarization – internal field – Clausius-Mosotti relation – frequency dependence of dielectric constant – dielectric loss – effect of temperature on dielectric constant – dielectric breakdown and its types – classical theory of electric polarisability – normal and anomalous dispersion – Cauchy and Sellmeier relations – Langevin-Debye equation – complex dielectric constant – optical phenomena. Application – plasma oscillations – plasma frequency – plasmons,</p>	
V	<p>FERROELECTRIC and SUPERCONDUCTING PROPERTIES OF MATERIALS: <i>ferroelectric effect:</i> Curie-Weiss Law – ferroelectric domains, P-E hysteresis loop – <i>elementary band theory:</i> Kronig-Penny model – band gap (no derivation) – conductor, semiconductor (P and N type) and</p>	

		insulator –conductivity of semiconductor – mobility – Hall effect – measurement of conductivity (four probe method) - Hall coefficient. <i>Superconductivity:</i> experimental results – critical temperature –critical magnetic field – Meissner effect –type-I and type-II superconductors – London’s equation and penetration depth – isotope effect – idea of BCS theory (no derivation)
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Percentage of Syllabus Revised: 40%

Courses focus on:

✓	Skill development		Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

Syllabus Revision		
Course Code	23113SEC66	Board: Physics
Course Name	Physics Practical - VI	Semester: VI

Unit	Existing	Changes
		1. Logic Gates 2. Universal Gates – NAND 3. Universal Gates – NOR 4. De-Morgan’s theorem 5. Half adder and subtractor 6. Full adder and subtractor 7. Multiplexers (4:1) 8. Demultiplexers (1:4) 9. Encoder (8-line-to-3- line) 10. Decoder (3-line-to-8-line) 11. BCD to seven segment decoder. 12. S-R Flip-flop 13. J-K Flip-flop 14. T and D type flip-flops 15. Master-slave flip-flop 16. Serial in serial out registers 17. Parallel in and parallel out registers 18. Asynchronous mod-8 counters 19. Asynchronous mod-10 counters 20. Synchronous - 4-bit counter 21. Ring counter
	1. Addition programme - Microprocessor 8085 2. Subtraction programme - Microprocessor 8085 3. Multiplication programme - Microprocessor 8085	

4. Division programme - Microprocessor 8085	
5. Finding the Largest number programme - Microprocessor 8085	
6. Finding the Smallest number programme - Microprocessor 8085	
7. Ascending order programme - Microprocessor 8085	
8. Descending order programme - Microprocessor 8085	
9. Decimal to Hexadecimal Code conversion programme - Microprocessor 8085	
10. Interface DAC – saw tooth wave programme - Microprocessor 8085	
11. Serial Communication programme - Microprocessor 8085	
12. 16 bit addition programme - Microprocessor 8085	

Percentage of Syllabus Revised: 70%

Courses focus on:

✓	Skill development		Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

New Course		
Course Code	23113SEC17	Board: Physics
Course Name	Introductory Physics	Semester: I

Unit	Course
I	vectors, scalars –examples for scalars and vectors from physical quantities – addition, subtraction of vectors – resolution and resultant of vectors – units and dimensions– standard physics constants
II	different types of forces–gravitational, electrostatic, magnetic, electromagnetic, nuclear –mechanical forces like, centripetal, centrifugal, friction, tension, cohesive, adhesive forces
III	different forms of energy– conservation laws of momentum, energy – types of collisions –angular momentum– alternate energy sources–real life examples
IV	types of motion– linear, projectile, circular, angular, simple harmonic motions – satellite motion – banking of a curved roads – stream line and turbulent motions – wave motion – comparison of light and sound waves – free, forced, damped oscillations
V	surface tension – shape of liquid drop – angle of contact – viscosity – lubricants – capillary flow – diffusion – real life examples– properties and types of materials in daily use- conductors, insulators – thermal and electric

Percentage of Syllabus Revised: 100%

Courses focus on:

	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics

	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
✓	Intellectual Property Rights		

NME

New Course		
Course Code	23113SEC16	Board: Physics
Course Name	Physics for Everyday Life	Semester: I

Unit	Course
I	MECHANICAL OBJECTS: spring scales – bouncing balls –roller coasters – bicycles –rockets and space travel.
II	OPTICAL INSTRUMENTS AND LASER: vision corrective lenses – polaroid glasses – UV protective glass – polaroid camera – colour photography – holography and laser.
III	PHYSICS OF HOME APPLIANCES: bulb – fan – hair drier – television – air conditioners – microwave ovens – vacuum cleaners
IV	SOLAR ENERGY: Solar constant – General applications of solar energy – Solar water heaters – Solar Photo – voltaic cells – General applications of solar cells.
V	INDIAN PHYSICIST AND THEIR CONTRIBUTIONS: C.V.Raman, HomiJehangirBhabha, Vikram Sarabhai, Subrahmanyam Chandrasekhar, Venkatraman Ramakrishnan, Dr. APJ Abdul Kalam and their contribution to science and technology.

Percentage of Syllabus Revised: %

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
✓	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

New Course		
Course Code	23113SEC26	Board: Physics
Course Name	Astro Physics	Semester: II

Unit	Course
I	TELESCOPES: Optical telescopes – magnifying power, brightness, resolving power and f/a ratio – types of reflecting and refracting telescopes – detectors and image processing – radio telescopes – Hubble space telescope.
II	SOLAR SYSTEM: Bode’s law of planetary distances – meteors, meteorites, comets, asteroids – Kuiper belt – Oort cloud – detection of gravitational waves – recent advances in astrophysics.
III	ECLIPSES: types of eclipses – solar eclipse – total and partial solar eclipse – lunar eclipse – total and partial lunar eclipse – transits. THE SUN: physical and orbital data – solar atmosphere – photosphere – chromosphere – solar corona – prominences – sunspots – 11 year solar cycle – solar flares.

IV	STELLAR EVOLUTION: H-R diagram – birth and death of low mass, intermediate mass and massive stars – Chandrasekar limit – white dwarfs – neutron stars – pulsars – black holes – supernovae. GALAXIES: classification of galaxies – galaxy clusters – interactions of galaxies, dark matter and super clusters – evolving universe.
V	ACTIVITIES IN ASTROPHYSICS: (i) Basic construction of telescope (ii) Develop models to demonstrate eclipses/planetary motion (iii) Night sky observation (iv) Conduct case study pertaining to any topic in this paper (v) Visit to any one of the National Observatories Any three activities to be done compulsorily.

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

SEC

New Course

Course Code	23113SEC27	Board: Physics
Course Name	Communication Physics	Semester: II

Unit	Course
I	RADIO TRANSMISSION AND RECEPTION: transmitter – modulation types of modulation – amplitude modulation – limitations of amplitude modulation – frequency modulation – comparison of FM and AM – demodulation- essentials in demodulation – receivers: AM radio receivers – types of AM radio receivers – stages of superheterodyne radio receiver, advantages – FM receiver – difference between FM and AM receivers.
II	FIBER OPTIC COMMUNICATION: introduction – basic principle of fiber optics – advantages – construction of optical fiber – classification based on the refractive index profile – classification based on the number of modes of propagation – losses in optical fibers – attenuation – advantages of fiberoptic communication
III	RADAR COMMUNICATION: introduction - basic radar system – radar range – antenna scanning – pulsed radar system – search radar – tracking radar – moving target indicator Doppler effect-MTI principle – CW Doppler radar
IV	SATELLITE COMMUNICATION: introduction history of satellites – satellite communication system – satellite orbits – basic components of satellite communication system – commonly used frequency in satellite – communication – multiple access communication – satellite communication in India
V	MOBILE COMMUNICATION: introduction – concept of cell – basic cellular mobile radio system – cellphone – facsimile – important features of fax machine – application of facsimile – VSAT (very small aperture terminals) modem IPTV (internet protocol television) -Wi-Fi-4G (basic ideas)

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
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	Employability	✓	Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

New Course		
Course Code	23113SEC37	Board: Physics
Course Name	Energy Physics	Semester: III

Unit	Course
I	INTRODUCTION TO ENERGY SOURCES: energy consumption as a measure of prosperity – world energy future – energy sources and their availability – conventional energy sources – non-conventional and renewable energy sources – comparison – merits and demerits.
II	SOLAR ENERGY: solar energy Introduction – solar constant – solar radiation at the Earth's surface – solar radiation geometry – Solar radiation measurements – solar radiation data – solar energy storage and storage systems – solar pond – solar cooker – solar water heater – solar greenhouse – types of greenhouses – solar cells.
III	WIND ENERGY: introduction – nature of the wind – basic principle of wind energy conversion – wind energy data and energy estimation – basic components of Wind Energy Conversion Systems (WECS) – advantages and disadvantages of WECS – applications – tidal energy
IV	BIOMASS ENERGY: introduction – classification – biomass conversion technologies – photosynthesis – fermentation – biogas generation – classification of biogas plants – anaerobic digestion for biogas – wood gasification – advantages & disadvantages.
V	ENERGY STORAGE: Energy storage systems – Mechanical Energy storage – Compressed Air storage – Electrical storage – Thermal energy storage – importance of energy storage – batteries – lead acid battery – nickel-cadmium battery – fuel cells – types of fuel cells – advantages and disadvantages of fuel cells – applications of fuel cells – hydrogen storage.

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

New Course		
Course Code	23113SEC38	Board: Physics
Course Name	Mathematical Physics	Semester: III

Unit	Course
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I	MATRICES: types of matrices – symmetric, Hermitian, unitary and orthogonal matrices– characteristic equation of a matrix – Eigen values and Eigen vectors of a matrix – Cayley-Hamilton theorem – inverse of matrix by Cayley-Hamilton theorem – similarity transformations – diagonalization of 2x2 real symmetric matrices.
II	VECTOR CALCULUS: vector differentiation – directional derivatives – definitions and Physical significance of gradient, divergence, curl – Laplace operators– vector identities – line, surface and volume integrals – statement, proof and simple problems for Gauss’s divergence theorem, Stoke’s theorem, Green’s theorem.
III	ORTHOGONAL CURVILINEAR COORDINATES: tangent basis vectors – scale factors – unit vectors in cylindrical and spherical coordinate systems – gradient of a scalar –divergence and curl of a vector – Laplacian in these coordinate systems.
IV	FOURIER SERIES: periodic functions –Dirichlet’s conditions – general Fourier series – even and odd functions and their Fourier expansions – Fourier cosine and sine – half range series – change of length of interval. Fourier analysis of square wave, saw-tooth wave, half wave/full wave rectifier wave forms.
V	APPLICATIONS OF PARTIAL DIFFERENTIAL EQUATIONS (PDE): PDE for transverse vibrations in elastic strings (one dimensional wave equation) –one dimensional heat flow equation – solutions to these PDE’s by method of separation of variables – problems based on boundary conditions and initial conditions.

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development		Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

New Course		
Course Code	23113SEC47	Board: Physics
Course Name	Advanced Mathematical Physics	Semester: IV

Unit	Course
I	MATRICES: introduction – special types of matrices – transpose – conjugate–conjugate transpose– symmetric and anti symmetric – Hermitian and skew Hermitian – orthogonal and unitary – properties – characteristic equation – roots and characteristic vectors – diagonalization– Cayley–Hamilton theorem –simple problems
II	VECTOR CALCULUS: ∇operator – divergence – second derivative of vector functions or fields –Laplacian operator – curl of a vector – line integral – line Integral of a vector field around an infinitesimal rectangle – curl of conservative field – surface integral – volume integral (without problem) – Gauss’s divergence theorem and proof – Stroke’s theorem and proof –simple problems.
III	SPECIAL FUNCTIONS: definition –Beta function – Gamma function – evaluation of Beta function – other forms of Beta function – evaluation of Gamma function – other forms of Gamma function – relation between Beta and Gamma functions – simple problems.

IV	FROBENIUS METHOD AND SPECIAL FUNCTIONS: singular points of second order linear differential equations and importance –singularities of Bessels and Laguerre equations, Frobenius method and applications to differential equations: Legendre and Hermite differential equations – Legendre and Hermite polynomials – Rodrigues formula –generating function – orthogonality
V	PARTIAL DIFFERENTIAL EQUATIONS: solutions to partial differential equations using separation of variables - Laplace's equation in problems of rectangular – cylindrical and spherical symmetry – conducting and dielectric sphere in an external uniform electric field – wave equation and its solution for vibrational modes of a stretched string

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

New Course		
Course Code	23113SEC48	Board: Physics
Course Name	Numerical Methods and C programming	Semester: IV

Unit	Course
I	NUMERICAL SOLUTIONS: determination of zeros of polynomials – roots of linear and nonlinear algebraic and transcendental equations – bisection and Newton-Raphson methods – convergence and divergence of solutions
II	NUMERICAL DIFFERENTIATION, INTEGRATION AND CURVE FITTING: Newton's forward and backward interpolation – Lagrange's interpolation – Newton-Raphson method to find square root and cube roots – principle of least squares – fitting a straight line and exponential curve – trapezoidal rule – Simpson's 1/3 and 1/8 rule
III	ALGORITHM, FLOW CHART AND PROGRAM: development of algorithm – flow chart for solving simple problems– average of set of numbers – greatest, smallest – conversion of Fahrenheit to Celsius and Celsius to Kelvin, miles to kilometer – sorting set of numbers in ascending and descending order – square matrix, addition, subtraction and multiplication of order (2x2) using arrays.
IV	INTRODUCTION TO C: importance of C – basic structure of C programming – constants, variables and data types – character set, key words and identifiers – declaration of variables and data types – operators – expressions: arithmetic, relational, logical, assignment – increment and decrement – conditional – comma operators
V	CONTROL STRUCTURE: decision making with if, if-else, nested if – switch –go to – break – continue –while, do while, for statements – arrays, one dimensional and two dimensional – declaring arrays – storing arrays in memory – initializing arrays – simple programs

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

DSC

New Course		
Course Code	23113DSC54A	Board: Physics
Course Name	Lasers and Fiber Optics	Semester: V

Unit	Course
I	FUNDAMENTALS OF LASER: basic principles: spontaneous and stimulated emission – Einstein's coefficient – pumping mechanism: optical, electrical and laser pumping – population inversion – two and three level laser system – resonator configuration – quality factor – threshold condition – concept of Q-switching – Theory of mode locking – cavity dumping.
II	TYPES OF LASER: solid state laser: ruby laser, Nd:YAG laser, Nd:Glass laser – semiconductor laser: intrinsic semiconductor laser, doped semiconductor laser, injection laser – dye laser – chemical laser: HCL laser, DF-CO ₂ , CO chemical laser. Gas laser: neutral atom gas laser (He-Ne laser), CO ₂ laser, Copper vapour laser.
III	APPLICATIONS OF LASER: application of laser in metrology – optical communication – material processing: laser instrumentation of material processing, powder feeder, laser heating, laser welding, laser melting – medical application – Laser instrumentation for surgeries – laser in astronomy
IV	FIBER OPTICS: basic components of optical fiber communication – principles of light propagation through fiber – total internal reflection – optical fiber – coherent bundle – numerical aperture and skew mode – phase shift and attenuation during total internal reflection – types of fiber: single mode and multi-mode fiber – step index and graded index fiber – fiber optic sensors – application of fiber optics.
V	CHARACTERISTICS AND FABRICATION OF OPTICAL FIBER: fiber characteristics: mechanical and transmission characteristics – absorption loss and scattering loss measurements – dispersion – connectors and splicers – fiber termination – optical time domain reflectometer (OTDR) and its uses – fiber material – fiber fabrication – fiber optic cables design.

Percentage of Syllabus Revised: %

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

New Course		
Course Code	23113DSC54B	Board: Physics
Course Name	Materials Science	Semester: I

Unit	Course
I	CRYSTALLOGRAPHIC FUNDAMENTALS: Crystal lattice – Primitive and Unit cell – Seven classes of crystals – Bravais lattice – Miller Indices – Structure of crystals – Simple cubic, Hexagonal close packed structure, Face centered cubic structure, Body centered cubic structure – Sodium chloride structure – Zinc Blende structure – Diamond Structure. <i>Crystallography:</i> Diffraction of X-Rays by Crystals – Bragg's law in one dimension – Experimental method in X-Ray diffraction – Laue method, Rotating crystal method – Powder Photograph method – Laue's equations.
II	CRYSTAL IMPERFECTIONS: introduction – point defects: vacancies, interstitials, impurities, electronic defects – equilibrium concentration of point imperfections – application of point defects – line defects: edge dislocation, screw dislocation – surface defects: extrinsic defects – intrinsic defects: grain boundaries, tilt & twist boundaries, twin boundaries, stacking faults – volume defects – effect of imperfections.
III	MATERIAL DEFORMATION: introduction – elastic behavior of materials – atomic model of elastic behavior – modulus as a parameter in design – rubber like elasticity – inelastic behavior of materials – relaxation process – viscoelastic behavior of materials – spring-Dash pot models of viscoelastic behavior of materials.
IV	OPTICAL MATERIALS: introduction – optical absorption in metals, semiconductors and insulators – NLO materials and their applications – display devices and display materials: fluorescence and phosphorescence – light emitting diodes – liquid crystal displays.
V	MECHANICAL TESTING: destructive testing: tensile test, compression test, hardness test – nondestructive testing (NDT): radiographic methods, ultrasonic methods – thermal methods of NDT: thermography – equipment used for NDT: metallurgical microscope

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

New Course		
Course Code	23113DSC55B	Board: Physics
Course Name	Digital Photography	Semester: V

Unit	Course
I	PHOTOGRAPHY AND BASIC PRINCIPLE OF IMAGE FORMATION: principle – chemical route and digital route – light, wavelengths, colours – shadows – light intensity and distance – making light form images – pin-hole images – practical limitations to pin-hole images – lens instead of pin-hole – focal length and image size – imaging of closer subjects.
II	LENSES – CONTROLLING THE IMAGES: photographic lens – focal length and angle of view (<i>problems</i>) – focusing movement – aperture and f-numbers (<i>problems</i>) – depth of field – depth of focus – image stabilization – lenses for digital cameras – lens and camera care

III	CAMERA USING FILMS AND ITS TYPES: camera and its essential components– shutter – aperture – light measurement – film housing – camera types: view camera– view finder camera – Reflex camera– single lens reflex (SLR) camera
IV	DIGITAL CAMERAS PRINCIPLE AND TYPES: principle of digital image capturing –comparison of digital and analog picture information – megapixel – grain, noise and pixel density – optical and digital zooming – image stabilizer – bit depth – white balance – colour modes – file formats (TIFF, RAW and JPEG) – storage cards and types – digital cameras: camera phones – compact camera – hybrid camera – digital SLR.
V	THE DIGITAL IMAGE – POSTPRODUCTION: hardware: computer and its peripherals – software: saving digital file – basic editing: navigating the image – undo/redo/history – crop – rotate – brightness and contrast – colour balance – hue/saturation – dodge/burn – cloning and retouching – removing an element in an image – advanced editing: histogram/levels – curves – selection tools: magic wand – printing digital images: inkjet printer – laser printer – dye sub printer – lambda/light jet printers.

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development		Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
✓	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

New Course		
Course Code	23113DSC65A	Board: Physics
Course Name	Nanoscience	Semester: VI

Unit	Course
I	NANOSCIENCE AND NANOTECHNOLOGY: nanoscale– nature and nanostructures – nanostructures: 0D, 1D, 2D– surface to volume ratio– size effect – excitons – quantum confinement– metal based nanoparticles (metal and metal oxide) – nanocomposites (non-polymer based) – carbon nanostructures – fullerene –SWCNT and MWCNT
II	PROPERTIES OF NANOMATERIALS: introduction –mechanical behavior – elastic properties – hardness and strength – ductility and toughness –superplastic behavior – optical properties – surface plasmon resonance – electrical properties – dielectric materials and properties – magnetic properties – super paramagnetism – electrochemical properties – properties of CNTs.
III	FABRICATION METHODS AND VACUUM TECHNIQUES: top-down and bottom-up approaches – electrochemical method – chemical and physical vapour depositions (CVD and PVD) – plasma arc discharge – sputtering – thermal evaporation – pulsed laser deposition – ball milling – lithography: photolithography – e-beam lithography – sol-gel methods – synthesis of CNT.
IV	CHARACTERIZATION TECHNIQUES: scanning probe microscopy – scanning tunneling microscopy – atomic force microscopy – scanning electron microscopy – transmission electron microscopy – powder XRD method: determination of structure and grain size analysis – UV-visible and photoluminescence spectroscopy.

V	APPLICATIONS OF NANOMATERIALS: medicine: drug delivery – photodynamic therapy – molecular motors –energy: fuel cells –rechargeable batteries – supercapacitors– photovoltaics. sensors: nanosensors based on optical and physical properties – electrochemical sensors – nanobiosensors. nanoelectronics: CNTFET – display screens – GMR read/write heads – nanorobots –applications of CNTs
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Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
✓	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
	Intellectual Property Rights		

New Course			
Course Code	23113DSC65B	Board:	Physics
Course Name	Medical Instrumentation	Semester:	VI

Unit	Course
I	BIOMETRICS: introduction to man-instrument system and its components – problems encountered in measuring living systems – transducers– force, motion, pressure transducers. AUDIOMETRY: mechanism of hearing – air and bone conduction – threshold of hearing – audiometer – masking in audiometry – pure tone and speech audiometer – evoked response audiometry – hearing aids
II	BIOELECTRIC POTENTIALS AND ELECTRODES: biomedical signals – sources of bioelectric potentials – resting, action and propagation of bioelectric potentials –bio-potential electrodes – skin surface, needle electrodes. BIOMEDICAL RECORDERS: electro-conduction system of heart – electro cardiogram (ECG) – Einthoven’s triangle – electro encephalogram (EEG) –brain waves – EEG instrumentation – recording of evoked potentials – electro myogram (EMG)–pulse oximeter.
III	DIAGNOSTIC RADIOLOGY: radiography – primary radiological image – contrast agents, filters – beam restrictor, grid – image quality COMPUTED TOMOGRAPHY: linear tomography – computed tomography – helical and multi slice – image quality– radiation dose. RADIOISOTOPES AND NUCLEAR MEDICINE: radioisotopes – radiopharmaceuticals – technetium generator – gamma camera – positron emission tomography – disposal of radioactive waste.
IV	ULTRASOUND IMAGING: ultrasound transducer – ultrasound imaging– Doppler ultrasound – ultrasound image quality and bio-effects. MAGNETIC RESONANCE IMAGING: proton and external magnetic field – precession – radiofrequency and resonance – MRI signal – relaxation time – MRI instrumentation – imaging sequences – biosafety
V	PROJECT ASSIGNMENT: clinical practice of <i>one</i> of the following: electro cardiogram, electro encephalogram, electro myogram, electro oculogram, computed tomography, positron emission tomography, ultrasound

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics

✓	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

ALLIED PHYSICS

New Course		
Course Code		Board: Physics
Course Name	Allied Physics – I	Semester: III

Unit	Course
I	PROPERTIES OF MATTER: Stress – Strain – Hooke's law - bending of beams – depression of cantilever- Determination of Y by uniform and non-uniform bending method- Torsion in a wire- Determination of rigidity modulus by torsional pendulum - Newton's law of Gravitation - Determination of G by Boy's method - mass and density of earth – acceleration due to gravity - Determination of g by compound pendulum.
II	HEAT AND THERMODYNAMICS: Zeroth law of thermodynamics – First law of thermodynamics – Reversible and irreversible process – Carnot's theorem – Second law of thermodynamics – Entropy – Change of entropy in reversible and irreversible processes – Third law of thermodynamics - Joule-Thomson effect – Porous plug experiment – liquefaction of gases: liquefaction of helium - Refrigerating mechanism –Air conditioning machines.
III	ATOMIC SPECTROSCOPY: Pauli's exclusion principle - Optical spectra - Fine structure of sodium D line - Zeeman effect - Photo electric emission – laws – Lenard's experiment – Richardson and Compton experiments – Einstein's photoelectric equation – Experimental verification of Einstein's photoelectric equation by Millikan's experiment - X-Rays: Introduction – Production - Coolidge tube – Bragg's law – derivation – X-Ray spectra – Continues – Characteristic – Moseley law and its importance.
IV	ELECTRICITY: Ohm's law – Kirchoff's law – Application to Wheatstone's Bridge – Carey Foster Bridge – Potentiometer – Measurement of current and resistance – Calibration of low and high range voltmeter – Conversion of galvanometer into ammeter and voltmeter - Fleming's left and right hand rule - Electromagnetic induction - Eddy current - Transformers: Theory, energy loss and applications
V	MAGNETISM: Magnetic properties of materials: Magnetic induction B – Magnetisation M – Magnetising field H – Relation between – B, H and M – Magnetic susceptibility – Magnetic permeability – Properties of dia, para and ferro magnetic materials – Curie temperature – Energy loss due to hysteresis – importance of hysteresis curves – magnetic circuit.

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization	✓	Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

New Course		
Course Code		Board: Physics
Course Name	Allied Physics Practical – I	Semester: III

1.	Young's modulus by non-uniform bending using pin and microscope
2.	Young's modulus by non-uniform bending using optic lever, scale and telescope
3.	Rigidity modulus by static torsion method.
4.	Rigidity modulus by torsional oscillations without mass
6.	Surface tension and interfacial Surface tension – drop weight method
7.	Comparison of viscosities of two liquids – burette method
8.	Specific heat capacity of a liquid – half time correction
9.	Verification of laws of transverse vibrations using sonometer
10.	Calibration of low range voltmeter using potentiometer
11.	Determination of thermo emf using potentiometer
12.	Verification of truth tables of basic logic gates using ICs
13.	Verification of De Morgan's theorems using logic gate ICs.
14.	Use of NAND as universal building block.

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
✓	Intellectual Property Rights		

New Course		
Course Code		Board: Physics
Course Name	Allied Physics – II	Semester: IV

Unit	Course
I	MODERN PHYSICS: Photo electric effect – Laws of photo electric effect – Einstein's photo electric equation – verification of Einstein's photo electric equation by Millikan's experiment – photo electric cells – applications. <i>Wave mechanics:</i> De Broglie matter waves – determination of De Broglie wave length – Experimental study of De Broglie matter wave by G.P. Thomson experiment.
II	NUCLEAR PHYSICS: Characteristics of nuclear forces – nuclear structure by liquid drop model – Binding energy – mass defect – particle accelerators – cyclotron and betatron – artificial transmutations by α – particles - nuclear Fission and nuclear Fusion – elementary particles – Leptons, Mesons and Baryons
III	LASER PHYSICS: Purity of spectral lines – Coherence length and time – spontaneous and induced emissions – population inversion – meta stable state – conditions for laser actions – Ruby laser – Helium – neon laser – applications of lasers – Raman effect – Raman shift – stokes and anti-stokes lines – Laser Raman Spectrometer.
IV	SEMICONDUCTOR PHYSICS: Volt – Ampere Characteristics of P-N junction Diode – Zener diode – applications of Zener diodes – photo diode- Principles of LED- Frequency Modulation and Amplitude modulation – basic principles of antennas – block diagram of Superhetrodyne receiver – block diagram of monochrome TV receiver – basic principles and applications of RADAR

V	DIGITAL ELECTRONICS: number systems – conversion of binary into decimal – conversion of decimal to binary – binary addition and subtraction - Complements, Codes: BCD, Gray – Basic logic gates – NAND and NOR as an universal logic gates – Demorgan’s theorems – Boolean algebra – applications of Demorgans theorems – Half adder and Half subtractor – Multiplexers(1*4) – Demultiplexer(4*1) – Registers and Counters (statement only)
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Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
	Employability	✓	Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

New Course		
Course Code		Board: Physics
Course Name	Allied Physics Practical – II	Semester: IV

1.	Radius of curvature of lens by forming Newton’s rings
2.	Thickness of a wire using air wedge
3.	Wavelength of mercury lines using spectrometer and grating
4.	Refractive index of material of the lens by minimum deviation
5.	Refractive index of liquid using liquid prism
6.	Determination of AC frequency using sonometer
7.	Specific resistance of a wire using PO box
8.	Thermal conductivity of poor conductor using Lee’s disc
9.	Determination of figure of merit table galvanometer
10.	Determination of Earth’s magnetic field using field along the axis of a coil
11.	Characterization of Zener diode
12.	Construction of Zener/IC regulated power supply
13.	Construction of AND, OR, NOT gates using diodes and transistor
14.	NOR gate as a universal building block

Percentage of Syllabus Revised: 100%

Courses focus on:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment	✓	Environment and Sustainability
✓	Intellectual Property Rights		

List of new value added courses

1. Certificate course on regulated power supply
2. Certificate course on cosmology and structure formation

Subject Code	Subject Name
23513RPS	Certificate course on Regulated Power Supply

Course Objectives:

To impart knowledge on

- Working principles of electrical and electronic circuits
- Operation of electrical and electronic circuits

Unit I

Basic elements (Resistor, Inductor & Capacitor) & its working. Colour coding of resistor & current rating of resistance. Transformers its principal working, types of transformer current rating of transformer. Multi-meter & testing of components using multi-meter

Unit II

Instantaneous current time period, frequency, wavelength; peak or maximum amplitude, peak to peak value, effective current or RMS value of current & voltage, the average current & Voltage, power in ac circuit. Phase & phase difference. Inductive reactance & capacitive reactance.

Unit III

Working of half wave, full wave & bridge rectifier. Rectifier with capacitor filter (shunt capacitor filter), with series inductor filter, LC filter & π - section filter. Ripple factor, efficiency & voltage regulation for each filter.

Unit IV

Zener diode: Its working & characteristics, Zener diode as regulated power supply. Design consideration with one example.

Unit V

Concept of IC, Three pin IC regulator block diagram, 78xx series & 79xx series. Dual power supply.

Course Outcomes:

At the end of the course the students will be able to

- Understand the working principles of electrical and electronic circuits
- Comprehend the operation of electrical and electronic circuits

REFERENCE BOOKS:

- 1) Electronic Circuits by A.P. Godse & U.A. Bakshi
- 2) Solid state electronics by Agarawal & Agarawal
- 3) Basics electronics by B.K. Bagade & Singh
- 4) Principles of electronics by Malivno
- 5) Electricity & magnetism by Murgeshan
- 6) Electricity & magnetism by Brijjal & Subramian

Subject Code	Subject Name
23513CSF	Certificate course on Cosmology and Structure Formation

Course Objectives

This course is a graduate-level introduction to astrophysical cosmology, with emphasis on the “standard” big bang theory of the universe and, in the latter part of the course, its extension to a more detailed theory (the inflation + cold dark matter + cosmological constant model) that is presently the leading scenario for explaining the origin of structure in the universe.

Unit I

Introduction: observational and theoretical basis of the standard model

Unit II

The homogeneous universe - A minimal sketch of general relativity

Unit III

Homogeneous cosmological models (the Friedmann-Robertson Walker universe) Thumbnail sketch of cosmic history - The cosmic microwave background - Primordial nucleosynthesis Horizons and inflation

Unit IV

The inhomogeneous universe - Perturbation theory- Spherical collapse - The cold dark matter paradigm

Unit V

The cosmic expansion history and dark energy - Microwave background fluctuations - Large- scale structure- Galaxy formation

Course Outcomes:

At the end of the course the students will be able to

- Know the “standard” big bang theory of the universe
- Realize the origin of structure in the universe

References

1. Ryden, *Introduction to Cosmology*
2. Kolb and Turner, *The Early Universe*
3. Padmanabhan, *Structure Formation in the Universe*
4. Peacock, *Cosmological Physics*
5. Peebles, *Principles of Physical Cosmology*



PONNAIYAH RAMAJAYAM INSTITUTE OF
SCIENCE & TECHNOLOGY (PRIST)

DEEMED TO BE UNIVERSITY
U.S. 3 OF 1986 ACT, 1986

SCHOOL OF ARTS AND SCIENCE
DEPARTMENT OF BIOTECHNOLOGY
MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)*

Board: Biotechnology

The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	Biotechnology
Meeting no	13
Date and Time	21.06.2023 & 11.00 AM
Venue	Department of Biotechnology
Members Attended	The details are given in the ANNEXURE-I
AGENDA	
1	To confirm the minutes of BOS meeting held on 04.05.2022
2	Action taken on the previous Meeting Minutes
3	Discussion on the development of B.Sc., Biotechnology New curriculum under Revision 2023 Annexure -II
4	Discussion on the development of M.Sc., Biotechnology New curriculum under Revision 2023 Annexure -III
5	Discussion on Four years under graduate programme (FYUGP) B.Sc., Biotechnology Hon s Annexure -IV
6	Discussion on Value added courses
7	Discussion on Activities for the advanced learners
8	Discussion on Part I (Tamil) offered by language department for 2023-2024 batch.
9	Discussion on Part II (English) offered by department of English for 2023-2024 batch
10	Discussion on Part IV (AECC) Environmental Studies by department of Chemistry for 2023-2024 batch
11	Discussion on credits for Part V Extension Activity for 2023-2024.
12	Other academic activities of the department (Seminars, workshops)
13	Discussion on Indian Knowledge System Syllabus
14	Discussion on Disaster Management
15	Any other matters


HOD

Head of the Department
Department of Biotechnology
School of Arts & Science
Prist Deemed to be University, Thanjavur.



DEAN
DEAN
School of Arts & Science
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Vailam, Thanjavur - 613 403.



**PONNAIYAH RAMAJAYAM INSTITUTE OF
SCIENCE & TECHNOLOGY (PRIST)**

Declared as DEEMED TO BE UNIVERSITY
U/s 3 of UGC Act, 1956

MINUTES OF THE BOARD OF STUDIES MEETING

Board: Biotechnology

The 13th Board of Studies Meeting of Department of Biotechnology, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology were conducted as the guidelines of the University Grants Commission on 21.6.2023 at 11 am. The following members were present in the meeting.

The Chairman welcomed and outlined the changes to be made in the following for the board approval. He explained the details of the agenda and academic matters to be discussed. The agenda of the meeting has been taken up for discussion. The following points were discussed during the meeting. The resolutions made in the Meeting are given below. The committee appreciated the formulation of syllabus for B.Sc Biotechnology programme to meet out criteria of the Education Empowerment and Social Relevance. In addition the committee suggested the following corrections / modifications/ suggestions in the programme syllabus.

- ❖ Programme outcomes (PO) and Programme Specific outcomes (PSO) to be restructured.
- ❖ course outcome (CO) to be restructured for all the courses
- ❖ Recent reference books to be included in each course

Agendum 1: To confirm the minutes of BOS meeting held on 04.05.2022

Discussion: The minutes of the Board of Studies meeting held on 4th May 2022 were communicated to the members. The comments have been incorporated and placed for confirmation. The same was approved by the Academic Council.

Resolution: The board members resolved to accept the same.

Agendum 2: Action taken on the previous Meeting minutes

Discussion: Action taken report of the decisions made in the previous BoS and approved by the Academic council. Action taken report was presented in the BoS

Resolution: The board resolved to accept the same.

Agendum 3: Discussion on the development of the B.Sc Biotechnology New curriculum under R 2023

Discussion: A draft curriculum for B.Sc Biotechnology was proposed with modifications go committee and the following points were discussed.

- The Members to confirm the total number of credits accounting for 147.
- The Chairman informed that it has done according to the Tamilnadu State council for

Higher Education (TANSICHE) requirements and further it will forward to the Academic Council. We have 100 % revised B.Sc., Biotechnology Curriculum. The Members of the Board Approved the syllabus for B.Sc., Biotechnology. Refer Annexure I for the same.

- The Learning outcomes based Curriculum Frame work was presented to the BoS members. The BoS members confirmed that the syllabus related matter has been incorporated in to LOCF document.
- The syllabus for the course "**Indian Knowledge System**" was presented and discussed with the BoS members, followed by their approval. Refer to Annexure III for the same.
- The syllabus for the course "**Disaster Management**" was presented and discussed with the BoS members, followed by their approval. Refer to Annexure IV for the same.
- It was proposed that advanced learners should actively participate in peer teaching and be motivated to participate in more than one online course. Activities like the Departmental newsletter, student-organized seminars, and journal club discussion forum should be coordinated by them. It was also recommended to conduct a departmental-level finishing school programme for the graduating batch of students. Board members also opined to encourage students to join individual summer internship programmes in reputed research institutions like NCBS, CCMB, and IISc in order to strengthen their skills and expertise in the field of Biotechnology.

Resolution: The Board resolved to accept the same. New syllabus for B.Sc., Biotechnology was approved. It will be effective from the Academic year 2023-2024.

Agendum 4: Discussion on the development of the M.Sc., Biotechnology New curriculum under R 2023 (Annexure II)

Discussion: The draft curriculum for M.Sc., Biotechnology was proposed with modification to the committee and following points were discussed.

The members wanted to confirm the total number of credits accounting for 91.

➤ The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSICHE) requirements and will put forth this to the Academic Council. Refer Annexure I & II.

Resolution: The Board resolved to accept the same. New syllabus for M.Sc., Biotechnology was approved. It will be effective from Academic year 2023-2024.

Agendum 5: Discussion on Four years under graduate programme (FYUGP) B.Sc., Biotechnology Hons

Discussion: FYUGP detailed syllabus of the programme in the Annexure V.

Resolution: The committee recommended and approved both the courses.

Agendum 6: Discussion on Value added courses

Discussion: Value added courses (Job Oriented Courses) were discussed, the Department of Biotechnology proposed two course like Diploma course in Fermentation Technology, Certificate course in MLT, 3D Bioprinting, Tools in Network Pharmacology and Herbal products.

➤ Member had a vivid discussion over the suggestions made in the parent Teachers Association Meeting for enrichment of the syllabus.

➤ The Board members verified and approved the panel of examiners for the upcoming

End semester Examination

Resolution: The committee recommended and approved both the courses.

Agendum 7: Discussion on Activities for the advanced learners

Discussion:

Advanced learners motivated to participate various competitive examinations. They are promote to present their research ideas to National and International level Conference Presentations.

Resolution: The members resolved to accept the same.

Agendum 8: Discussion on Part I (Tamil) offered by language department for 2023-2024 batch.

Discussion:

23110AEC11 Part I: Tamil. The unified syllabi approved by the Board of Studies in Languages were placed for endorsement.

Resolution: The Board unanimously approved the syllabi

Agendum 9: Discussion on Part II (English) offered by department of English for 2023-2024 batch

Discussion: 23111AEC11/ 23111AEC21/23111AEC31/23111AEC41: Part II: English. The Unified syllabi approved by the Board of Studies in English were placed for endorsement.

Resolution: The Board Unanimously approved the Syllabi

Agendum 10: Discussion on Part IV (AECC) Environmental Studies by department of Chemistry for 2023-2024 batch

Discussion: 23115AECC4/ 23115AECC6: Environmental Studies-I & Environmental Studies-II. The unified syllabi approved by the Board of Studies in Chemistry were placed for endorsement.

Resolution: The Board unanimously approved the Syllabi.

Agendum 11: Discussion on credits for Part V Extension Activity for 2023-2024.

Discussion: One credit to be awarded for participation in Extension activity like YRC/NCC/NSS/RRC/YOGA/SPORTS/Clubs.

Resolution: The Board members approved one credit for Extension activity

Agendum 12: Other academic activities of the department (Seminars, workshops)

Discussion: The online seminars, workshops, intercollegiate competitions conducted by the department during this academic year were discussed.

Resolution: The Board resolved to accept the same.

Agendum 13: Discussion on Indian Knowledge System Syllabus

Discussion: Discussion on Indian Knowledge System Syllabus by the department during this academic year was discussed.

Resolution: The Board resolved to accept the same.

Agendum 14: Discussion on Disaster Management

Discussion: Discussion on Disaster management Syllabus by the department during this academic year was discussed.

Resolution: The Board resolved to accept the same.

Agendum 15: Any other matters

The board of studies in Biochemistry recommends the panel of experts for examination purposes as per the guidelines of the institution.


- The board also suggested measures to improve the creative and innovative thinking ability of the post graduate students by assigning critical research problems in projects and practical's.
- The suggestions received from the parents, students, Alumni and employer viz, practical oriented curriculum and skill enhancement internship training were discussed.
- The board also suggested enlisting minimal skill sets required to pass the degree programme.
- The list of panel of examiners was revised by adding more number of examiners.

Resolution: The board resolved to consider the above mentioned recommendations.

The members had a brainstorming discussion and interaction among themselves. After discussion, fruitful suggestions were incorporated appropriately in the curriculum and syllabus of R-2023. Based on the suggestion given by the members, BOS resolved to recommend the syllabus for BSc Biotechnology and MSc., Biotechnology under Regulation 2023 to the Academic Council for further approval.


The chairman of Board of Studies (BOS) thanked all the members for their active participation and cordially invited them for the next meeting

Date: 21.06.2023



HOD

Head of the Department
Department of Biotechnology
School of Arts & Science
Prist Deemed to be University, Thanjavur.



DEAN

DEAN
School of Arts & Science
Donnaiyah Ramajayam Institute
Science & Technology (Prison)
Deemed to be University
Vallam, Thanjavur - 613 403



**PONNAIYAH RAMAJAYAM INSTITUTE OF
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Vallam, Thanjavur-613403

16th
BOS

MINUTES OF THE 16th BOARD OF STUDIES MEETING

Faculty: BAS

Board: Mathematics

The Chairman of BoS welcomed all the Panel members for the meeting. The items listed in the agenda were taken for discussion.

The following are the minutes of the meeting.

ITEM	AGENDA																														
Item-01	Discussion on Part I (Tamil/Hindi/French/Malayalam) offered by language department for 2023-24 Batch and onwards.																														
Discussion	The unified syllabus approved by the Board of Studies in Tamil was places for endorsement.																														
Resolution	The Board approve the same																														
Item-02	Discussion on Part II (English) offered by English Department for 2023-24 Batch and onwards.																														
Discussion	The unified syllabus approved by the Board of Studies in English was places for endorsement.																														
Resolution	The Board approve the same																														
Item-03	Discussion on UG syllabi for Part III-Core Courses in all semester for 2023-24 Batch and onwards																														
Discussion	In UG Syllabus the panel members Dr.A.Mohan & Dr S.Ramasubramanian are suggested to revise the contents of each unit of all the papers except the following papers. The following list of papers NOT CHANGE in contents																														
	<table border="1"><thead><tr><th>Sem. No</th><th>Sub. Code</th><th>Title of the Paper</th><th>New code</th><th>Revision in %</th></tr></thead><tbody><tr><td></td><td>20112AEC52</td><td>Real Analysis</td><td>23112AEC52</td><td>0%</td></tr><tr><td></td><td>20112DSC55</td><td>Discipline Specific Elective –I Fuzzy Analysis</td><td>23112DSC55</td><td>0%</td></tr><tr><td></td><td>20112AEC61</td><td>Complex Analysis</td><td>23112AEC61</td><td>0%</td></tr><tr><td></td><td>20112DSC64</td><td>Discipline Specific Elective – II Graph Theory</td><td>23112AEC62</td><td>0%</td></tr><tr><td></td><td>20120SEC65L</td><td>Project Work</td><td>23112PRW64</td><td>0%</td></tr></tbody></table>	Sem. No	Sub. Code	Title of the Paper	New code	Revision in %		20112AEC52	Real Analysis	23112AEC52	0%		20112DSC55	Discipline Specific Elective –I Fuzzy Analysis	23112DSC55	0%		20112AEC61	Complex Analysis	23112AEC61	0%		20112DSC64	Discipline Specific Elective – II Graph Theory	23112AEC62	0%		20120SEC65L	Project Work	23112PRW64	0%
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	20120SEC65L	Project Work	23112PRW64	0%																											

[Signature]

H.O.D.

DEPARTMENT OF MATHEMATICS
PRIST DEEMED TO BE UNIVERSITY
THANJAVUR - 613 403

6

[Signature]

Dean
School of Arts & Science
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403

List of DELETED PAPERS

Sem. No	Sub. Code	Title of the Paper
I	20112AEC13	Differential Calculus and Vector Calculus
	20112AEC14	Trigonometry, Analytical Geometry 3D and Calculus
	20120AEC15	Programming in C
	20120AEC16L	Programming in C Lab
II	20112AEC23	Integrals & Differential Equations
	20112SEC24	Sequence and series
	20120AEC26L	Web Programming Lab
	20112RLC27	Research Led Seminar
III	20112AEC33	Number Theory
	20112AEC34	Numerical Analysis
	20118AEC35	Mathematical Statistics-I
	20118AEC36L	Mathematical Statistics-I Lab
	20112RMC37	Research Methodology
IV	20112SEC43	Operations Research
	20112AEC44	Astronomy
	201ENSTU45	Environmental Studies
	20118AEC46	Mathematical Statistics-II
	20118AEC47L	Mathematical Statistics- II Lab
V	20112AEC51	Modern Algebra
	20112SEC53	Statics
	20112SEC54	Programming in C++
	20112BRC56	Participation in Bounded Research
VI	20112SEC62	Dynamics
	20112AEC63	Discrete Mathematics

List of NEW PAPERS

Sem No.	New Sub. Code	Title of the Paper	Revision in %
I	23112AEC13	Algebra & Trigonometry	100%
	23112 AEC14	Differential Calculus	100%
II	23112 AEC23	Analytical Geometry (Two & Three Dimensions)	100%
	23112 AEC24	Integral Calculus	100%
III	23112 AEC33	Vector Calculus and Applications	100%
	23112 AEC34	Differential Equations and Applications	100%

B. Siganam

H.O.D.

DEPARTMENT OF MATHEMATICS
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	IV	23112 AEC43	Industry Module – Industrial Mathematics	100%
		23112 AEC44	Elements of Mathematical Analysis	100%
	V	23112 AEC51	Abstract Algebra	100%
		23112 AEC53	Mathematical Modelling	100%
		23112 AEC54	Mechanics	100%
	VI	23112 AEC62	Linear Algebra	100%
Resolution	The Board approved the syllabi			
Item-04	Discussion on Syllabus for Part III-Extra Disciplinary Course (EDC) offered by Department of Physics for 2023-24 Batch and onwards.			
Discussion	The following list of papers NOT CHANGE in contents			
	Sem. No	Sub. Code	Title of the Paper	
	I		NIL	
	II		NIL	
	III		NIL	
	IV		NIL	
	V		NIL	
	List of DELETED PAPERS			
	Sem. No	Sub. Code	Title of the Paper	
	I	20120AEC15	Programming in C	
		20120AEC16L	Programming in C Lab	
	II	20120AEC25	Web Programming	
		20120AEC26L	Web Programming Lab	
	III	20118AEC35	Mathematical Statistics-I	
		20118AEC36L	Mathematical Statistics-I Lab	
	IV	20118AEC46	Mathematical Statistics-II	
		20118AEC47L	Mathematical Statistics- II Lab	
	V	NIL		
	VI	NIL		
	List of NEW PAPERS			
	Sem.No	Sub. Code	Title of the Paper	Revision in %
	I	23120DSC15	OOPS with C++	100%
	II	23120DSC25	Cloud Computing	100%
	III	23112GEC35	Actuarial Mathematics	100%
	IV	23112GEC45	Financial Mathematics	100%

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V	23112GEC56	Optimization Techniques	100%
VI	23112GEC63	Astronomy	100%

Resolution The Board approve the same

Item-05 Discussion on Syllabus for Part IV-Skill Enhancement Course, Ability Enhancement Compulsory Course and Audit Course.

Discussion The following list of papers NOT CHANGE in contents

Sem. No	Sub. Code	Title of the Paper	New code	Revision in %
I	201ACLSICN	Indian Constitution	231AECCINC	0%
	201ACLSUHV	Universal Human Values	231AECCUHV	0%
II	201ACSSBBE	Basic Behavioural Etiquette	231AECCBE	0%
III	201ACLSOAN	Office Automation	231AECCOAN	0%
	20112RMC37	Research Methodology	23112RMC39	0%
IV	201ACLSPSL	Professional Skills	231ACLSPSL	0%
V	20120SEC65L	Project Work	23112PRW65	0%
	201ACSSIST	Interview Skills Training and Mock Test	231ACSSIST	0%

List of DELETED Papers

Sem. No	Sub. Code	Title of the Paper
I	201ENSTU45	Environmental Studies
II		NIL
III		NIL
IV		NIL
V	20112BRC56	Participation in Bounded Research
VI	20120SEC66L	Program Exit Examination
	201ACLSCET	Community Engagement

List of NEW PAPERS

Sem No.	New Sub. Code	Title of the Paper	Revision in %
I	23120SEC17	Web Designing	100%
	23112SEC18	Bridge Mathematics	100%
II	23112SEC27	E-Commerce & Tally	100%
	23112SEC28	Computational Skill	100%
III	23112SEC37	Entrepreneurial Based on Mathematics	100%
	23112SEC38	Statistics with R Programming	100%
IV	23112SEC47	Introduction to Data Science	100%

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	23112SEC48	Computing Mathematics	100%
	23112BRC49	Participation in Bounded Research	100%
V	231AECVED	Value Education-1	100%
	23112DSC57	Internship	100%
VI	231SECPCS5	Professional Competency Skill	100%
	231EXACT	Extension Activity	100%
	231ACSIKS	Indian Knowledge System	100%
Resolution	The Board approve the same		
Item-06	Discussion on credits for Part V Extension Activity for 2023-24 Batch and onwards.		
Discussion	One credit to be awarded to each extension activity in YRC/RCC/NSS/RRC/Yoga/Sports/Clubs		
Resolution	The Board approve the same		
Item-07	Discussion on PG syllabi for core courses in all semester for 2023-24 Batch and onwards		
Discussion	In PG Dr.A.Mohan& Dr S.Ramasubramanian Suggested to revise the contents of each units of all the papers and include some new papers instead of some deleted papers.		
	List of DELETED PAPERS		
	Sem. No	Sub. Code	Title of the Paper
	I	20212AEC11	Algebra
		20212AEC12	Real Analysis
		20212RLC16	Research Led seminar
	II	20212AEC22	Measure Theory and Integration
		20212SEC23	Mathematical Methods
		20212AEC24	Graph Theory
		20212RMC26	Research Methodology
	III	20212SEC32	Stochastic Process
		20212AEC33	Advanced Numerical Analysis
	IV	20212SEC42	Visual Programming
		20212AEC43	Number Theory
	List of REVISED Papers		
	Sem. No	Sub. Code	Title of the Paper
	I	20212AEC13	Ordinary Differential Equations
	II	20212AEC21	Complex Analysis
	III	20212AEC31	Topology
	IV	20212AEC41	Functional Analysis

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List of NEW Papers

Sem. No	Sub. Code	Title of the Paper
I	23212AEC11	Algebraic Structures
	23212AEC12	Real Analysis I
II	23212AEC21	Advanced Algebra
	23212AEC22	Real Analysis II
	23212AEC23	Partial Differential Equations
III	23212AEC32	Probability Theory
	23212AEC34	Core Industry Module
IV	23212AEC42	Differential Geometry
	23212AEC43	Mechanics
	23212EA	Extension Activity

Resolution The Board approve the same

Item-08 Discussion on syllabus for Extra Disciplinary Course (EDC) offered by Computer Science department.

Discussion In PG Dr.A.Mohan & Dr S.Ramasubramanian suggested to delete some papers and include some new papers instead of some deleted papers.

List of DELETED PAPERS

Sem. No	Sub. Code	Title of the Paper
I	20212DSC15A-	Classical Dynamics
	20212DSC15B-	Fluid Dynamics
II	20212DSC25A-	Mathematical Probability
	20212DSC25B-	Mathematical Modelling
III	20212DSC34A-	Cryptography
	20212DSC34B-	Algebraic Coding Theory
IV	20212DSC44A-	Combinatorial Mathematics
	20212DSC44B-	Design And Analysis of Algorithm

List of REVISED Papers

Sem. No	Sub. Code	Title of the Paper
I		NIL
II		NIL
III		NIL
IV		NIL

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List of NEW Papers		
Sem. No	Sub. Code	Title of the Paper
I	23212GSC15	Elective-II Discrete Mathematics
II	23212GSC24	Elective-III Mathematical Statistics
	23212MSE25	Elective-IV Modelling and Simulation with Excel
III	23212DSC35	Elective-V Mathematical Python
IV	23212GSC45	Elective-VI Resource Management Techniques
Resolution	The Board approve the same	
Item-09	Discussion on syllabi for SKILL Elective Course	
Discussion	In PG Dr.A.Mohan & Dr S.Ramasubramanian suggested to delete some papers and include some new papers instead of some deleted papers.	
	List of NEW Papers	
Sem. No	Sub. Code	Title of the Paper
I	NIL	
II	23212 SEC2-	Skill Enhancement Course-SEC2 Numerical analysis using SCILAB
III	NIL	
IV	23212TCE-	Professional Competency Skill Enhancement Course Training for Competitive Examinations A. Mathematics for NET / UGC - CSIR/ SET / TRB Competitive Examinations (2 hours) B. General Studies for UPSC / TNPSC / Other Competitive Examinations (2 hours) OR C. Mathematics for Advanced Research Studies (4 hours)
Resolution	The Board approve the same	
Item-10	Discussion on syllabi for Value Added Certificate Courses (VACC)	
Discussion		
Resolution	-	

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Item-11	Any other Matter
Discussion	-
Resolution	-

Date: 26.6.23

Dr. S. Subramanian
Dr. S, Subramanian
BOS Chairman

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Dr. S. Subramanian

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16th
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**B.Sc., Mathematics
Syllabus Revision
Board: Mathematics**

Faculty: BAS

Semester: I

Course Code	23120SEC17
Title	Part-IV-Skill Enhancement Course WEB PROGRAMMING

UNIT	EXISTING	CHANGE
I	Introduction to HTML- Head and body sections-Hyper text and Link in HTML documents.	No Change
II	Designing the body section- Managing images in HTML.	No Change
III	Ordered and Unordered Lists –Table Handling.	No Change
IV	DHTML and Style Sheet – Frames.	No Change
V	A Webpage design project – Forms	No Change

Percentage of Syllabus Revised: 0%

Course Focuses on:

✓	Skill Development	Entrepreneurial Development
✓	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Values/Ethics Rights/Human

do. diggaram

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B.Sc., Mathematics

Syllabus Revision

Board: Mathematics

Semester: I

Faculty: BAS

Course Code 231AECCINC

Title

Part-IV
Ability Enhancement Compulsory Course
INDIAN CONSTITUTION

UNIT	EXISTING	CHANGE
I	The making of Indian constitution: The constitution assembly organization - character - work salient features of the constitution- written and detailed constitution - socialism -secularism- democracy and republic.	No Change
II	Fundamental rights and fundamental duties of the citizens: Right of equality - right of freedom- right against exploitation -right to freedom of religion- cultural and educational rights -right to constitutional remedies -fundamental duties.	No Change
III	Directive principles of state policy: Socialistic principles - Gandhi an principles-liberal and general principles -differences between fundamental rights and directive principles	No Change
IV	The union executive, union parliament and Supreme Court : Powers and positions of the president - qualification - method of election of president and vice president -prime minister -Rajya Sabah -Lok Sabah .the supreme court - high court -functions and position of supreme court and high	No Change

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	court	
V	State council -election system and parliamentary democracy in India: State council of ministers -chief minister -election system in India-main features election commission-features of Indian democracy.	No Change

Percentage of Syllabus Revised: 0%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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16th
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**B.Sc., Mathematics
Syllabus Revision**

Faculty: BAS

Board: Mathematics

Semester: III

Course Code	23112RMC39
Title	Soft Skill-3 RESEARCH METHODOLOGY

UNIT	EXISTING	CHANGE
I	Research – Definition, Objectives, Motivation and purpose – types of research – Pure and applied, survey, case study experimental, exploratory – Concept of Research Design –Criteria of Good Research, Problems Encountered by Researchers in India. General guidelines for Good housekeeping & Lab-safety- Hygiene (Eye, foot, skin and hand protection) – Safety rules -Equipment protection – Respiratory protective equipment – safety equipment – Leaking, compressed gas cylinders – electrical safety. Fire – extinguishers.	No Change
II	Research Problem: Definition & need of research problem, Types & selection of proper research question and suitable research design with Examples, Literature types- compendia and tables of information, Reviews, General treatises, Monographs.	No Change
III	Methods of data collection – Primary and secondary data – observation – interview –Questionnaire – Tools for questionnaire; surveying & literature survey, spreadsheets, Technical writing, Construction of tools for data collection – testing validity – pilot	No Change

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	study and pre-testing, Survey vs Experiment, Practical Exercises.	
IV	Processing and analysis of data – editing – coding – transcription – tabulation – outline of statistical analysis – descriptive statistics – elements of processing through computer- packages for analysis (Excel).	No Change
V	Review of literature, Report writing – target audience – types of reports – contents of reports – styles and Conventions in reporting – steps in drafting a report. Technical Presentation	No Change

Percentage of Syllabus Revised: 0%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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B.Sc., Mathematics
Syllabus Revision
Board: Mathematics

Faculty: BAS

Semester: V

Course Code	23112AEC1
Title	ABSTRACT ALGEBRA

UNIT	EXISTING	CHANGE
I	Permutation Groups - Sub Groups - Cosets and Lagrange's theorem	Introduction to groups- Subgroups- cyclic groups and properties of cyclic groups- Lagrange's Theorem-A counting principle - Examples
II	Normal subgroups - Quotient groups. - Homeomorphisms -Isomorphism	Normal subgroups and Quotient group- Homomorphism-Automorphism-Examples.
III	RING THEORY: Definition and Examples of Rings - Some special Classes of Rings - Homomorphisms- Ideals and Quotient Rings - More ideals and Quotient Rings - Euclidean Rings.	Cayley's Theorem-Permutation groups - Examples
IV	VECTORSPACE: Elementary Basic concepts - Linear independence and Bases and spaces - Inner product spaces	Definition and examples of ring- Some special classes of rings- homomorphism of rings- Ideals and quotient rings- More ideals and quotient rings.
V	VECTOR SPACE: Rank and Nullity-Matrix of a linear transformation INNER PRODUCT SPACES: Introduction-Definitions and examples- Orthogonality-Orthogonal Complement	The field of quotients of an integral domain- Euclidean Rings - The particular Euclidean Ring - Examples

Percentage of Syllabus Revised: 50%

Course Focuses on:

✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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B.Sc., Mathematics
Syllabus Revision
Board: Mathematics

Faculty: BAS

Semester: V

Course Code	23112AEC52
Title	REAL ANALYSIS

UNIT	EXISTING	CHANGE
I	BASIC TOPOLOGY:- Finite, countable and uncountable sets - Metric spaces - Compact spaces - Perfect sets - Connected sets	Continuous Functions on Metric Spaces: Open sets- closed sets-Discontinuous function on \mathbb{R}^1 . Connectedness, Completeness and Compactness: More about open sets-Connected sets.
II	NUMERICAL SEQUENCES AND SERIES:- Convergent sequences - Subsequence's -Cauchy Sequences - Upper and Lower limits - some special sequences - Series -Series of Non negative Terms -The Number E - The Root and Ratio Tests-Power series -Summation by parts - Absolute convergence - Addition and Multiplication of series.	Bounded sets and totally bounded sets: Complete metric spaces- compact metric spaces, continuous functions on a compact metric space, continuity of inverse functions, uniform continuity.
III	CONTINUITY:- Limits of functions -continuous functions -Continuity and compactness -Continuity and connectedness- Discontinuity -Monotonic functions - Infinite limits and limits at infinity.	Calculus: Sets of measure zero, definition of the Riemann integral, existence of the Riemann integral-properties of Riemann integral.
IV	DIFFERENTIATION:- The derivative of a Real function - Mean value theorems - The continuity of Derivatives -L'Hospital's Rule - Derivatives of Higher order -Taylor's theorem.	Derivatives-Rolle's theorem, Law of mean, Fundamental theorems of calculus.

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V	THE RIEMANN- INTEGRALS:- Definition and Existence of the Integral - Properties of the Integral - Integration and Differentiation	Taylor's theorem-Point wise convergence of sequences of functions, uniform convergence of sequences of functions.
Percentage of Syllabus Revised: 50%		
Course Focuses on:		
✓	Skill Development	✓ Entrepreneurial Development
✓	Employability	✓ Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Values/Ethics Rights/Human

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**B.Sc., Mathematics
Syllabus Revision
Board: Mathematics**

Semester: V

Faculty: BAS

Course Code	23112DSC55
Title	Fuzzy Analysis

UNIT	EXISTING	CHANGE
I	Fuzzy sets-basic types-basic concepts- α cuts-additional properties of α cuts-extension principle for fuzzy sets,	No Change
II	Operation on fuzzy sets-types of operations- fuzzy complements-t-norms- fuzzy unions-combinations of operations	No Change
III	Fuzzy Arithmetic - Fuzzy numbers-Arithmetic operations on intervals Arithmetic operations on fuzzy numbers	No Change
IV	Fuzzy relations-Binary fuzzy relation-fuzzy equivalence relation-fuzzy compatibility relation-fuzzy ordering relations-fuzzy morphism.	No Change
V	Fuzzy relation equation-general discussion-problem partitioning solution method-fuzzy relation equations based on sup-i compositions-fuzzy relation equations based on w_i compositions.	No Change

Percentage of Syllabus Revised: 0%

Course Focuses on:

✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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**B.Sc., Mathematics
Syllabus Revision**

Faculty: BAS

Board: Mathematics

Semester: VI

Course Code	23112AEC61
Title	COMPLEX ANALYSIS

UNIT	EXISTING	CHANGE
I	Analytic Functions: Functions of complex variables-Limits theorems on limits-continuous functions functions-Differentiability-C.R. Equations-Analytic Functions Harmonic functions	Analytic functions: Functions of a Complex variable –Limits –Theorem on limits – Continuity – Derivatives – Differentiation formulas – Cauchy Riemann equation – conditions for differentiability – Polar coordinates– Analytic functions– Harmonic functions.
II	Bilinear Transformations: Elementary transformations-Bilinear Transformations-cross ratio-fixed points of bilinear transformations-Some special bilinear transformations.	Analytic functions: Functions of a Complex variable –Limits –Theorem on limits – Continuity – Derivatives – Differentiation formulas – Cauchy Riemann equation – conditions for differentiability – Polar coordinates– Analytic functions– Harmonic functions.
III	Complex Integration: Definite Integral-Cauchy's Theorem-Cauchy's integral formula-Higher derivations	Complex Integration: Contour integrals– Some examples – Simply and Multiply connected domains– Cauchy integral formula – Formula for derivatives– Liouville's theorem –Fundamental theorem of Algebra– Maximum modulus principle.
IV	Series Expansions: Taylor's series-Laurent series-Zeros of analytic functions-Singularities	Sequences and Series: Convergence of sequences – Convergence of series– Taylor's series – Laurent series– Absolute and uniform convergence of power Series – Continuity of sums of power series– Integration & differentiation of power series
V	Calculus of residues: Residues- Cauchy's Residue theorem – Evaluation of definite integrals	Residues and Poles: Isolated singular points – Residues– Cauchy Residue theorem – Residue at infinity – The three types of isolated singular points – Residues at poles – Zeros of analytical functions – Zeros and poles – Evaluation of real improper integrals

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		(excluding poles on the real axis).
Percentage of Syllabus Revised: 25%		
Course Focuses on:		
✓	Skill Development	Entrepreneurial Development
✓	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Values/Ethics
		Rights/Human

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: I

Course Code	23112AEC13
Title	Algebra & Trigonometry
UNIT	Contents
I	Reciprocal Equations-Standard form-Increasing or decreasing the roots of a given equation- Removal of terms, Approximate solutions of roots of polynomials by Horner's method – related problems.
II	Summation of Series: Binomial- Exponential -Logarithmic series (Theorems without proof) – Approximations - related problems.
III	Characteristic equation – Eigen values and Eigen Vectors-Similar matrices - Cayley – Hamilton Theorem (Statement only) - Finding powers of square matrix, Inverse of a square matrix up to order 3, Diagonalization of square matrices - related problems.
IV	Expansions of $\sin^n \theta$, $\cos^n \theta$ in powers of $\sin \theta$, $\cos \theta$ - Expansion of $\tan^n \theta$ in terms of $\tan \theta$, Expansions of $\cos^n \theta$, $\sin^n \theta$, $\cos^m \theta \sin^n \theta$ –Expansions of $\tan(\theta_1 + \theta_2 + \dots + \theta_n)$ -Expansions of $\sin \theta$, $\cos \theta$ and $\tan \theta$ in terms of θ - related problems.
V	Hyperbolic functions – Relation between circular and hyperbolic functions Inverse hyperbolic functions, Logarithm of complex quantities, Summation of trigonometric series - related problems.

Percentage of Syllabus Revised: 100%

Course Focuses on:

✓	Skill Development	Entrepreneurial Development
✓	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Values/Ethics Rights/Human

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: I

Course Code	23112 AEC14		
Title	DIFFERENTIAL CALCULUS		
UNIT	Contents		
I	Successive Differentiation: Introduction (Review of basic concepts) – The n^{th} derivative – Standard results – Fractional expressions – Trigonometrical transformation – Formation of equations involving derivatives – Leibnitz formula for the n^{th} derivative of a product – Feynman's method of differentiation.		
II	Partial Differentiation: Partial derivatives – Successive partial derivatives – Function of a function rule – Total differential coefficient – A special case – Implicit Functions.		
III	Partial Differentiation (Continued): Homogeneous functions – Partial derivatives of a function of two variables – Maxima and Minima of functions of two variables - Lagrange's method of undetermined multipliers.		
IV	Envelope: Method of finding the envelope – Another definition of envelope – Envelope of family of curves which are quadratic in the parameter.		
V	Curvature: Definition of Curvature – Circle, Radius and Centre of Curvature – Evolutes and Involutives – Radius of Curvature in Polar Co-ordinates.		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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BOS

Faculty: BAS **NEW Course** Board: Mathematics Semester: I

Course Code	23120SEC17		
Title	Part-IV-Skill Enhancement Course WEB PROGRAMMING		
UNIT	Contents		
I	Introduction to HTML- Head and body sections-Hyper text and Link in HTML documents.		
II	Designing the body section- Managing images in HTML		
III	Ordered and Unordered Lists –Table Handling.		
IV	DHTML and Style Sheet – Frames		
V	A Webpage design project – Forms		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

Dr. Digvijay

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BOS

Faculty: BAS		NEW Course		Board: Mathematics		Semester: I	
Course Code	23112SEC18						
Title	Foundation course - Bridge Mathematics						
UNIT	Contents						
I	Algebra: Binomial theorem, General term, middle term, problems based on these concepts						
II	Sequences and series (Progressions). Fundamental principle of counting. Factorial n.						
III	Permutations and combinations, Derivation of formulae and their connections, simple applications, combinations with repetitions, arrangements within groups, formation of groups.						
IV	Trigonometry: Introduction to trigonometric ratios, proof of $\sin(A+B)$, $\cos(A+B)$, $\tan(A+B)$ formulae, multiple and sub multiple angles, $\sin(2A)$, $\cos(2A)$, $\tan(2A)$ etc., transformations sum into product and product into sum formulae, inverse trigonometric functions, sine rule and cosine rule						
V	Calculus: Limits, standard formulae and problems, differentiation, first principle, uv rule, u/v rule, methods of differentiation, application of derivatives, integration - product rule and substitution method.						
Percentage of Syllabus Revised: 100%							
Course Focuses on:							
✓	Skill Development			Entrepreneurial Development			
✓	Employability			Innovations			
	Intellectual Property Rights			Gender Sensitization			
	Social Awareness/ Environment			Constitutional Values/Ethics		Rights/Human	

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16th
BOS

Faculty: BAS

NEW Course

Board: Mathematics

Semester: II

Course Code	23112SEC28
Title	Skill Enhancement Course Computational Mathematics (NUMERICAL METHODS)
UNIT	Contents
I	Solutions of Algebraic and transcendental equation iterative method, Bisection method-Aitken's process Method of False Position-Newton-Raphson methods.
II	Finite differences-Forward differences backward differences Central differences symbolic relations-Newton's formula for interpolation. Interpolation with unevenly spaced points Lagrange's interpolation formula-divided differences and their properties Newton's General interpolation formula.
III	Numerical differentiation — integration — Trapezoidal rule and Simpson's rule.
IV	Solution of Linear systems Gaussian Elimination method — Iterative methods Jacobi and Gauss seidal Methods.
V	Numerical solution of Ordinary -Differential Equations. Solution by Taylor's series - Picard's method of successive approximations -Euler method Modifies Euler's method -RungeKutta methods

Percentage of Syllabus Revised: 100%

Course Focuses on:

✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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BOS

Faculty: BAS

NEW Course
Board: Mathematics

Semester: III

Course Code	23112 AEC34		
Title	DIFFERENTIAL EQUATIONS AND APPLICATIONS		
UNIT	Contents		
I	Ordinary Differential Equations: Variable separable Homogeneous Equation-Non-Homogeneous Equations of first degree in two variables -Linear Equation - Bernoulli's Equation-Exact differential equations.		
II	Equation of first order but not of higher degree: Equation solvable for dy/dx- Equation solvable for y- Equation solvable for x- Clairaut's form - Linear Equations with constant coefficients- Particular integrals of algebraic, exponential, trigonometric functions and their products.		
III	Simultaneous linear differential equations- Linear Equations of the Second Order -Complete solution in terms of a known integrals-Reduction to the Normal form-Change of the Independent Variable-Method of Variation of Parameters.		
IV	Partial differential equation: Formation of PDE by Eliminating arbitrary constants and arbitrary functions – complete integral – singular integral-General integral-Lagrange's Linear Equations – Simple Applications.		
V	Special methods – Standard forms-Charpit's Methods – Simple Applications		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: III

Course Code	23112GEC36		
Title	Part-III: ACTUARIAL MATHEMATICS		
UNIT	Contents		
I	Cash flows -An analogy with currencies-Discout functions -Calculating the discount function -Interest and discount rates -Constant interest-Values and actuarial equivalence -Vector notation -Regular pattern cash flows -Balances and reserves-Basic concepts -Relation between balances and reserves-Prospective versus retrospective methods -Recursion formulas		
II	Basic definitions-Probabilities -Constructing the life table from the values of qx -Life expectancy-Choice of life tables -Standard notation and terminology -A sample table		
III	Introduction -Calculating annuity premiums -The interest and survivorship discount function-The basic definition-Relations between yx for various values of x -Guaranteed payments -Deferred annuities with annual premiums -Some practical considerations -Gross premiums -Gender aspects-Standard notation and terminology-Spreadsheet calculations		
IV	Introduction -Calculating life insurance premiums -Types of life insurance - Combined insurance-annuity benefits -Insurances viewed as annuities - Summary of formulas -A general insurance-annuity identity-The general identity -The endowment identity-Standard notation and terminology - Single-premium notation -Annual-premium notation-Identities -Spreadsheet applications		
V	Introduction to reserves -The general pattern of reserves -Recursion-Detailed analysis of an insurance or annuity contract-Gains and losses -The risk-savings decomposition-Bases for reserves-Nonforfeiture values-Policies involving a return of the reserve -Premium difference and paid-up formulas-Premium difference formulas -Paid-up formulas -Level endowment reserves -Standard notation and terminology -Spreadsheet applications		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability	✓	Innovations
✓	Intellectual Property Rights		Gender Sensitization
✓	Social Awareness/ Environment		Constitutional Rights/Human Values/Ethics

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: III

Course Code	23112SEC37		
Title	Part-IV Skill Enhancement Course ENTREPRENERIAL BASED MATHEMATICS		
UNIT	Contents		
I	Arithmetic: Ratios and Proportions Simple and Compound interest including application of Annuity Bill Discounting and Average Due Date Mathematical reasoning – basic application		
II	Algebra: Set Theory and simple application of Venn Diagram Variation, Indices, Logarithms Permutation and Combinations – basic concepts		
III	Statistical Representation of Data: Diagrammatic representation of data Frequency distribution Graphical representation of Frequency Distribution – Histogram, Frequency Polygon, Ogive, Pie-chart		
IV	Index Numbers: Uses of Index Numbers Problems involved in construction of Index Numbers Methods of construction of Index Numbers		
V	Time Series Analysis: Basic application including Moving Average Moving Average Method Method of Least Squares		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
✓	Intellectual Property Rights		Gender Sensitization
✓	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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Faculty: BAS

NEW Course
Board: Mathematics

Semester: III

Course Code	23112SEC38	
Title	Part-IV Skill Enhancement Course STATISTICS WITH R PROGRAMMING	
UNIT	Contents	
I	Introduction, How to run R, R Sessions and Functions, Basic Math, Variables, Data Types, Vectors, Conclusion, Advanced Data Structures, Data Frames, Lists, Matrices, Arrays, Classes.	
II	R Programming Structures, Control Statements, Loops, - Looping Over Nonvector Sets,- If-Else, Arithmetic and Boolean Operators and values, Default Values for Argument, Return Values, Deciding Whether to explicitly call return-Returning Complex Objects, Functions are Objective, No Pointers in R, Recursion, A Quicksort Implementation-Extended Extended Example: A Binary Search Tree.	
III	Doing Math and Simulation in R, Math Function, Extended Example Calculating Probability Cumulative Sums and Products-Minima and Maxima-Calculus, Functions for Statistical Distribution, Sorting, Linear Algebra Operation on Vectors and Matrices, Extended Example: Vector cross Product-Extended Example: Finding Stationary Distribution of Markov Chains, Set Operation, Input /out put, Accessing the Keyboard and Monitor, Reading and writer Files.	
IV	Graphics, Creating Graphs, The Workhorse of R Base Graphics, the plot() Function - Customizing Graphs, Saving Graphs to Files.	
V	Linear Models, Simple Linear Regression, -Multiple Regression Generalized Linear Models, Logistic Regression, - Poisson Regression- other Generalized Linear Models-Survival Analysis, Nonlinear Models, Splines- Decision-Random Forests	
Percentage of Syllabus Revised: 100%		
Course Focuses on:		
✓	Skill Development	✓ Entrepreneurial Development
✓	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Rights/Human Values/Ethics

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: IV

Course Code	23112 AEC43		
Title	Part-III Industrial Mathematics (Operations Research & Numerical Methods)		
UNIT	Contents		
I	Introduction to OR-Meaning and scope of O.R, Definition of O.R, LPP (Linear Programming Problem). Formulation of LPP, graphical solution of LPP-Problems.		
II	Transportation problem- Its definition, feasible solution by North-West corner rule, matrix minima VAM methods. Optimal solution through MODI & stepping stone method for balanced and unbalanced transportation problem		
III	PERT and CPM network - critical and sub critical jobs -Determining the critical path. Network calculation PERT networks probability aspect of PERT- PERT time -PERT cist (omitting Crashing)		
IV	Test of Hypothesis-Null and alternative hypothesis(Concept only) One tail and two tail tests, tests of significance based on normal and t-distribution for mean, simple correlation and properties.		
V	Test of significance based on chi square and F-distributions for variance, test for goodness of fit and independence of attributes Analysis of variance -One way and two - way classifications with simple problems		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/Human Values/Ethics

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Faculty: BAS

NEW Course

Board: Mathematics

Semester: IV

Course Code	23112 AEC44		
Title	ELEMENTS OF MATHEMATICAL ANALYSIS		
UNIT	Contents		
I	Sets and Functions: Sets and elements- Operations on sets- functions- real valued functions- equivalence-countability- real numbers- least upper bounds.		
II	Sequences of Real Numbers: Definition of a sequence and subsequence-limit of a sequence – convergent sequences–divergent sequences- bounded sequences- monotone sequences		
III	Operations on convergent sequences – operations on divergent sequences – limit superior and limit inferior-Cauchy sequences.		
IV	Series of Real Numbers: Convergence and divergence – series with non – negative terms-alternating series-conditional convergence and absolute convergence- tests for absolute convergence.		
V	Limits and Metric Spaces: Limit of a function on a real line - Metric spaces - Limits in metric spaces – Continuous Functions on Metric Spaces: Function continuous at a point on there a line-Function continuous on a metric space.		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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Faculty: BAS

NEW Course
Board: Mathematics

Semester: IV

Course Code	23112GEC45
Title	Part-III FINANCIAL MATHEMATICS
UNIT	Contents
I	Chapter-4: The Arbitrage Theorem 4.1 The Concept of Arbitrage 4.2 Duality Theorem of Linear Programming 4.2.1 Dual Problems 4.3 The Fundamental Theorem of Finance
II	Chapter-5: Random Walks and Brownian Motion 5.1 Intuitive Idea of a Random Walk 5.2 First Step Analysis 5.3 Intuitive Idea of a Stochastic Process 5.4 Stock Market Example 5.5 More About Stochastic Processes 5.6 Ito's Lemma
III	Chapter-8: Derivatives of Black-Scholes Option Prices 8.1 Theta 131 8.2 Delta 133 8.3 Gamma 8.4 Vega 8.5 Rho 8.6 Relationships Between Δ , Θ and Γ
IV	Chapter-9: Hedging 9.1 General Principles 9.2 Delta Hedging 9.3 Delta Neutral Portfolios 9.4 Gamma Neutral Portfolios
V	Chapter-10: Optimizing Portfolios 10.1 Covariance and Correlation 10.2 Optimal Portfolios 10.3 Utility Functions 10.4 Expected Utility 10.5 Portfolio Selection 10.6 Minimum Variance Analysis 10.7 Mean Variance Analysis

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Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

Dr. S. Sivasubramanian

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16th
BOS

Faculty: BAS

NEW Course
Board: Mathematics

Semester: IV

Course Code	23112SEC48		
Title	Skill Enhancement Course COMPUTING MATHEMATICS (Quantitative Aptitude)		
UNIT	Contents		
I	Problems based on Ages, Simplification		
II	Simple and Compound interest		
III	Time and work, Work and Wages		
IV	Problems on Clocks, Problems on Calendars		
V	Trigonometry, Odd man out and Series		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

S. Digneshwar

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BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: IV

Course Code	23112SEC47		
Title	Part-IV: INTRODUCTION TO DATA SCIENCE		
UNIT	Contents		
I	Statistics: Introduction-Defining the Problem- Collecting The Data-Summarizing The Data-Analyzing Data-Interpreting The Analyses And Communicating Results- Reasons to Study Statistics- Statistics And The Data Analysis Process- The Data Analysis Process- Observational Studies- Experimental Studies- Types of Data And Some Simple Graphical Displays-Frequency Distributions and Bar Charts For Categorical Data- Bar Charts-Pie Chart		
II	Probability: Introduction- Properties of Probability- Combinatorial Principles- Conditional Probability- Independence of Events-Baye's Theorem- Bayes Theorem Applications With Simple Problems		
III	Sampling: Bias in Sampling- Sampling Techniques/Designs- Analysis Of Variance		
IV	Statistical Inference: Estimation- Point Estimation- Criteria of a Good Estimator- Methods Of Estimation		
V	Stochastic Process- Markov Chain-Transition Probabilities-Classification of States		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics
			Rights/Human

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BOS

Faculty: BAS

NEW Course
Board: Mathematics

Semester: V

Course Code	23112 AEC51		
Title	ABSTRACT ALGEBRA		
UNIT	Contents		
I	Introduction to groups- Subgroups- cyclic groups and properties of cyclic groups- Lagrange's Theorem-A counting principle – Examples		
II	Normal subgroups and Quotient group- Homomorphism-Automorphism-Examples		
III	Cayley's Theorem-Permutation groups - Examples		
IV	Definition and examples of ring- Some special classes of rings- homomorphism of rings- Ideals and quotient rings- More ideals and quotient rings.		
V	The field of quotients of an integral domain-Euclidean Rings - The particular Euclidean Ring – Examples		
Percentage of Syllabus Revised: 50%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: III

Course Code	23112 AEC53		
Title	MATHEMATICAL MODELLING		
UNIT	Contents		
I	Mathematical Modelling: Simple situations requiring mathematical modelling, characteristics of mathematical models.		
II	Mathematical Modelling through differential equations: Linear Growth and Decay Models. Non-Linear growth and decay models, Compartment models.		
III	Mathematical Modelling, through system of Ordinary differential equations of first order: Prey-predator models, Competition models, Model with removal and model with immigrations. Epidemics: simple epidemic model, Susceptible-infected- susceptible (SIS) model, SIS model with constant number of carriers. Medicine: Model for Diabetes Mellitus.		
IV	Introduction to difference equations		
V	Mathematical Modelling through difference equations: Harrod Model, cob web model application to Actuarial Science		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/Human Values/Ethics

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: V

Course Code	23112 AEC54			
Title	MECHANICS			
UNIT	Contents			
I	Force: Newton's laws of motion – Resultant of two forces on a particle – Equilibrium of a Particle: Equilibrium of a particle – Limiting equilibrium of a particle on an inclined plane.			
II	Forces on a Rigid Body: Moment of a Force – General motion of a body – Equivalent systems of forces- Parallel Forces – Forces acting along a Triangle - A specific reduction of Forces: Reduction of coplanar forces into a force and couple – Problems involving frictional forces.			
III	Work, Energy and Power: Work – Conservative field of force – Power - Rectilinear Motion under Varying Force: Simple Harmonic Motion - along a horizontal line – along a vertical line.			
IV	Projectiles: Forces on a projectile – Projectile projected on an inclined plane			
V	Central Orbits: General orbits – Central orbit – Conic as a centered orbit			
Percentage of Syllabus Revised: 100%				
Course Focuses on:				
✓	Skill Development	✓	Entrepreneurial Development	
✓	Employability		Innovations	
	Intellectual Property Rights		Gender Sensitization	
	Social Awareness/ Environment		Constitutional Values/Ethics	Rights/Human

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16th
BOS

M.Sc., Mathematics
Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: I

Course Code	23212 AEC13
Title	ORDINARY DIFFERENTIAL EQUATIONS

UNIT	EXISTING	CHANGE
I	Systems of linear differential equations	Linear equations with constant coefficients Second order homogeneous equations-Initial value problems-Linear dependence and independence-Wronskian and a formula for Wronskian-Non-homogeneous equation of order two
II	Existence and uniqueness of solutions	Linear equations with constant coefficients Homogeneous and non-homogeneous equation of order n –Initial value problems-Annihilator method to solve non-homogeneous equation- Algebra of constant coefficient operators.
III	Boundary value problems	Linear equation with variable coefficients Initial value problems -Existence and uniqueness theorems – Solutions to solve a non-homogeneous equation – Wronskian and linear dependence – reduction of the order of a homogeneous equation – homogeneous equation with analytic coefficients-The Legendre equation.
IV	Oscillations of second order equations	Linear equation with regular singular points Euler equation – Second order equations with regular singular points –Exceptional cases – Bessel Function

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V	Stability of linear and nonlinear system	Existence and uniqueness of solutions to first order equations: Equation with variable separated – Exact equation – method of successive approximations – the Lipschitz condition – convergence of the successive approximations and the existence theorem
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Percentage of Syllabus Revised: 50%

Course Focuses on:

✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human



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16th
BOS

**M.Sc., Mathematics
Syllabus Revision**

Faculty: BAS

Board: Mathematics

Semester: III

Course Code	23112AEC33
Title	COMPLEX ANALYSIS

UNIT	EXISTING	CHANGE
I	Harmonic functions — power series expansions partial fraction and factorization — entire functions.	Cauchy's Integral Formula: The Index of a point with respect to a closed curve – The Integral formula – Higher derivatives. Local Properties of analytical Functions: Removable Singularities-Taylor's Theorem – Zeros and poles – The local Mapping – The Maximum Principle.
II	The Riemann zeta function — normal families	The general form of Cauchy's Theorem : Chains and cycles- Simple Continuity - Homology - The General statement of Cauchy's Theorem - Proof of Cauchy's theorem - Locally exact differentials- Multiply connected regions - Residue theorem - The argument principle
III	The Riemann mapping theorem — conformal mapping of polygons — Chapter 6(6.1, 6.2)	Evaluation of Definite Integrals and Harmonic Functions Evaluation of definite integrals - Definition of Harmonic function and basic properties - Mean value property - Poisson formula
IV	A closer look at harmonic functions — the Dirichlet's problem Harmonic measures — Chapter 6 sec 3.4 and 5(5.1 only)	Harmonic Functions and Power Series Expansions: Schwarz theorem - The reflection principle - Weierstrass theorem – Taylor's Series – Laurent series .
V	Simple periodic functions — double periodic functions — the weierstrass theory Chapter 7 sec	Partial Fractions and Entire Functions: Partial fractions - Infinite products – Canonical products – Gamma Function-

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1,2,3(3.1. 3.2, 3.3)	Jensen's formula – Hadamard's Theorem
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Percentage of Syllabus Revised: 50%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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16th
BOS

M.Sc., Mathematics
Syllabus Revision

Faculty: BAS

Board: Mathematics

Semester: IV

Course Code	23212AEC41
Title	FUNCTIONAL ANALYSIS

UNIT	EXISTING	CHANGE
I	Algebraic Systems: Groups — Rings — The structure of rings — Linear spaces - The dimension of a linear space — Linear transformations — Algebras — BanachSpaces : The definition and some examples — Continuous linear transformations — The Hahn — Banach theorem — The natural imbedding of N in N^{**} - The open mapping theorem — The conjugate of a operator.	BANACH SPACES : The definition and some examples - Continuous linear transformations- Hahn -Banach theorem
II	Hilbert Spaces: The definition some simple properties — Orthogonal complements — Orthonormal sets — The conjugate space H^* - The adjoint of an operator — Self-adjoint operators — Normal and unitary operators — Projections.	BANACH SPACE & HILBERT SPACES : The natural imbedding of N in N^{**} - The open mapping theorem- The conjugate of a operator. Hilbert Spaces : The definition and some simple properties
III	Finite-Dimensional Spectral Theory: Matrices — Determinants and the spectrum of an operator — The spectral theorem — A survey of the situation.	HILBERT SPACES : Orthogonal complements - Orthonormal sets -The conjugate space H^* - The adjoint of an operator
IV	General Preliminaries on Banach Algebras: The definition and some examples — Regular and singular elements — Topological divisors of zero — The spectrum — The formula for the	OPERATORS ON HILBERT SPACES : Self-adjoint operators -Normal and unitary operators - Projections

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	spectral radius — The radical and semi- simplicity	
V	The Structure of Commutative Banach Algebras: The Gelfand mapping — Applications of the formula $r(x) = \lim_{n \rightarrow \infty} \ x^n\ ^{1/n}$ - Involutions in Banach Algebras — The Gelfand-Neumark theorem.	BANACH ALGEBRAS: Banach Algebra- General Preliminaries on Banach Algebras: The definition and some examples -Regular and simple elements -Topological divisors of zero -The spectrum -The formula for the spectral radius -The radical and semi-simplicity

Percentage of Syllabus Revised: 50%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: I

Course Code	23212AEC12
Title	REAL ANALYSIS - I
UNIT	Contents
I	Functions of bounded variation- Introduction - Properties of monotonic functions - Functions of bounded variation - Total variation - Additive property of total variation - Total variation on $[a, x]$ as a function of x - Functions of bounded variation expressed as the difference of two increasing functions - Continuous functions of bounded variation. Infinite Series : Absolute and conditional convergence -Dirichlet's test and Abel's test - Rearrangement of series - Riemann's theorem on conditionally convergent series.
II	The Riemann -Stieltjes Integral - Introduction - Notation - The definition of the Riemann -Stieltjes integral - Linear Properties - Integration by parts-Change of variable in a Riemann -Stieltjes integral - Reduction to a Riemann Integral - Euler's summation formula - Monotonically increasing integrators, Upper and lower integrals - Additive and linearity properties of upper, lower integrals - Riemann's condition - Comparison theorems.
III	The Riemann-Stieltjes Integral- Integrators of bounded variation-Sufficient conditions for the existence of Riemann-Stieltjes integrals-Necessary conditions for the existence of RS integrals- Mean value theorems -integrals as a function of the interval - Second fundamental theorem of integral calculus-Change of variable -Second Mean Value Theorem for Riemann integral- Riemann-Stieltjes integrals depending on a parameter- Differentiation under integral sign- Lebesguecriteriaon for existence of Riemann integrals.
IV	Infinite Series and infinite Products- Double sequences - Double series - Rearrangement theorem for double series - A sufficient condition for equality of iterated series - Multiplication of series - Cesarosummability- Infinite products. Power series - Multiplication of power series - The Taylor's series generated by a function - Bernstein's theorem - Abel's limit theorem -Tauber's theorem
V	Sequences of Functions - Pointwise convergence of sequences of functions - Examples of sequences of real - valued functions - Uniform convergence and continuity - Cauchy condition for uniform convergence - Uniform convergence of infinite series of functions - Riemann -Stieltjes integration - Non-uniform Convergence and Term-by-term Integration - Uniform convergence and differentiation - Sufficient condition for uniform convergence of a series - Mean

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convergence.			
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: I

Course Code	23212GSC15		
Title	DISCRETE MATHEMATICS		
UNIT	Contents		
I	RELATIONS: Cartesian Product of Two sets – Relations – Representation of Relation- Operations Relations-Equivalence Relation FUNCTIONS: Function and Operators- One-to-One , Onto Functions-Special Types of Functions-Invertible Functions- Compositions of Functions		
II	LOGIC: Introduction-TF –Statements-Connectives-Atomic and Compound Statements- Well Formed (Statements) Formulae-Truth Table of a Formula- Tautology- Tautological Implications and Equivalence of Formulae		
III	LATTICES AND BOOLEAN ALGEBRA Lattices – Some Properties of Lattices – New Lattices – Modular and Distributive Lattices- Boolean Algebra		
IV	RECURRENCE RELATIONS AND GENERATING FUNCTIONS: Recurrence an introduction – Polynomials and their Evaluations- Recurrence Relations-Solution of Finite Order Homogeneous (liner) Relations-Solution of Non- homogeneous-Relations-Generating Functions-Some Common Recurrence Relations-Primitive- Recursive Functions- Recursive and Partial Recursive Functions		
V	AUTOMATA, LANUAGES AND COMPUTATIONS: Introduction-Finite Automata- Definition of Finite Automaton – Representation of Finite Automaton-Acceptability of a string by a Finite Automaton- Languages accepted by a Finite Automaton-Non-deterministic Finite Automata- Acceptability of a String by Non- Deterministic Finite Automata –Equivalence of FA and NFA		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	Entrepreneurial Development	
✓	Employability	Innovations	
	Intellectual Property Rights	Gender Sensitization	
	Social Awareness/ Environment	Constitutional Values/Ethics	Rights/Human

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16th
BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: II

Course Code	23212AEC21		
Title	ADVANCED ALGEBRA		
UNIT	Contents		
I	Extension fields – Transcendence of e.		
II	Roots or Polynomials.- More about roots		
III	Elements of Galois theory		
IV	Finite fields -Wedderburn's theorem on finite division rings		
V	Solvability by radicals - A theorem of Frobenius- Integral Quaternions and the Four - Square theorem.		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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16th
BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: II

Course Code	23212AEC22			
Title	REAL ANALYSIS - II			
UNIT	Contents			
I	Measure on the Real line -Lebesgue Outer Measure - Measurable sets - Regularity - Measurable Functions -Borel and Lebesgue Measurability			
II	Integration of Functions of a Real variable- Integration of Non- negative functions - The General Integral - Riemann and Lebesgue Integrals			
III	Fourier Series and Fourier Integrals- Introduction - Orthogonal system of functions - The theorem on best approximation - The Fourier series of a function relative to an orthonormal system - Properties of Fourier Coefficients - The Riesz-Fischer Thorem- The convergence and representation problems in for trigonometric series - The Riemann -Lebesgue Lemma - The Dirichlet Integrals - An integral representation for the partial sums of Fourier series - Riemann's localization theorem - Sufficient conditions for convergence of a Fourier series at a particular point -Cesarosummability of Fourier series- Consequences of Fejes's theorem - The Weierstrass approximation theorem			
IV	Multivariable Differential Calculus- Introduction - The Directional derivative - Directional derivative and continuity - The total derivative - The total derivative expressed in terms of partial derivatives - The matrix of linear function - The Jacobian matrix - The chain rule - Matrix form of chain rule - The mean - value theorem for differentiable functions - A sufficient condition for differentiability - A sufficient condition for equality of mixed partial derivatives - Taylor's theorem for functions of R^n to R^1			
V	Implicit Functions and Extremum Problems :Functions with non-zero Jacobian determinants - The inverse function theorem-The Implicit function theorem-Extrema of real valued functions of severable variables-Extremum problems with side conditions.			
Percentage of Syllabus Revised: 100%				
Course Focuses on:				
✓	Skill Development		Entrepreneurial Development	
✓	Employability		Innovations	
	Intellectual Property Rights		Gender Sensitization	
	Social Awareness/ Environment		Constitutional Values/Ethics	Rights/Human

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16th
BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: II

Course Code	23212AEC23
Title	PARTIAL DIFFERENTIAL EQUATIONS
UNIT	Contents
I	Mathematical Models and Classification of second order equation : Classical equations-Vibrating string – Vibrating membrane – waves in elastic medium – Conduction of heat in solids – Gravitational potential – Second order equations in two independent variables – canonical forms – equations with constant coefficients – general solution
II	Cauchy Problem : The Cauchy problem – Cauchy-Kowalewsky theorem – Homogeneous wave equation – Initial Boundary value problem- Non-homogeneous boundary conditions – Finite string with fixed ends – Non-homogeneous wave equation – Riemann method – Goursat problem – spherical wave equation – cylindrical wave equation.
III	Method of separation of variables: Separation of variable- Vibrating string problem – Existence and uniqueness of solution of vibrating string problem - Heat conduction problem – Existence and uniqueness of solution of heat conduction problem – Laplace and beam equations
IV	Boundary Value Problems : Boundary value problems – Maximum and minimum principles – Uniqueness and continuity theorem – Dirichlet Problem for a circle , a circular annulus, a rectangle – Dirichlet problem involving Poisson equation – Neumann problem for a circle and a rectangle.
V	Green's Function: The Delta function – Green's function – Method of Green's function – Dirichlet Problem for the Laplace and Helmholtz operators – Method of images and eigen functions – Higher dimensional problem – Neumann Problem.

Percentage of Syllabus Revised: 100%

Course Focuses on:

✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/Human Values/Ethics

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16th
BOS

Faculty: BAS

NEW Course
Board: Mathematics

Semester: II

Course Code	23212GSC24-__		
Title	MATHEMATICAL STATISTICS		
UNIT	Contents		
I	Tchebychev's inequality and weak law of large numbers — Simple form of central limit theorem for i.i.d random variables		
II	Binomial, Poisson, Negative binomial, geometric distribution — Constants, moment generating function, Cumulant generating function.		
III	Continuous distribution — rectangular, exponential, beta, gamma distributions, Normal Distributions.		
IV	Test of Hypothesis—Null and alternative hypothesis(Concept only) One tail and two tail tests, tests of significance based on normal and t distribution for mean, simple correlation and properties.		
V	Test of significance based on chi square and F distributions for variance, test for goodness of fit and independence of attributes Analysis of variance — One way and two — way classifications with simple problems.		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/Human Values/Ethics

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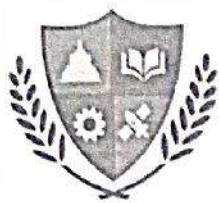
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Faculty: BAS NEW Course Board: Mathematics Semester: II

Course Code	23212MSE25_-		
Title	MODELLING AND SIMULATION WITH EXCEL		
UNIT	Contents		
I	Introduction to Simulation: Simulation, Advantages, Disadvantages, Areas of application, System environment, components of a system, Model of a system, types of models, steps in a simulation study. Simulation Examples: Simulation of Queuing systems, Simulation of Inventory System, Other simulation examples.		
II	General Principles: Concepts in discrete - event simulation, event scheduling/ Time advance algorithm, simulation using event scheduling. Random Numbers: Properties, Generations methods, Tests for Random number- Frequency test, Runs test, Autocorrelation test.		
III	Random Variate Generation: Inverse Transform Technique- Exponential, Uniform, Weibull, Triangular distributions, Direct transformation for Normal and log normal Distributions, convolution methods- Erlang distribution, Acceptance Rejection Technique Optimisation Via Simulation: Meaning, difficulty, Robust Heuristics, Random Search.		
IV	Analysis of Simulation Data Input Modelling: Data collection, Identification and distribution with data, parameter estimation, Goodness of fit tests, Selection of input models without data, Multivariate and time series analysis. Verification and Validation of Model – Model Building, Verification, Calibration and Validation of Models.		
V	Output Analysis – Types of Simulations with Respect to Output Analysis, Stochastic Nature of output data, Measures of Performance and their estimation, Output analysis of terminating simulation, Output analysis of steady state simulations. Simulation Softwares: Selection of Simulation Software, Simulation packages, Trend in Simulation Software.		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

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NEW Course

Faculty: BAS

Board: Mathematics

Semester: III

Course Code	23212AEC32		
Title	PROBABILITY THEORY		
UNIT	Contents		
I	Random Events and Random Variables: Random events – Probability axioms – Combinatorial formulae – conditional probability – Bayes Theorem – Independent events – Random Variables – Distribution Function – Joint Distribution – Marginal Distribution – Conditional Distribution – Independent random variables – Functions of random variables.		
II	Parameters of the Distribution : Expectation- Moments – The Chebyshev Inequality – Absolute moments – Order parameters – Moments of random vectors – Regression of the first and second types.		
III	Characteristic functions : Properties of characteristic functions – Characteristic functions and moments – semiinvariants – characteristic function of the sum of the independent random variables – Determination of distribution function by the Characteristic function – Characteristic function of multidimensional random vectors – Probability generating functions.		
IV	Some Probability distributions: One point , two point , Binomial – Polya – Hypergeometric – Poisson (discrete) distributions – Uniform – normal gamma – Beta – Cauchy and Laplace (continuous) distributions.		
V	Limit Theorems : Stochastic convergence – Bernaulli law of large numbers – Convergence of sequence of distribution functions – Levy-Cramer Theorems – de Moivre-Laplace Theorem – Poisson, Chebyshev, Khintchine Weak law of large numbers – Lindberg Theorem – LapunovTheroem – Borel-Cantelli Lemma - Kolmogorov Inequality and Kolmogorov Strong Law of large numbers.		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

S. Srinivasan

H.O.D.

DEPARTMENT OF MATHEMATICS
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S. Srinivasan

Dean

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16th
BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: III

Course Code	23212AEC34
Title	INDUSTRY MODULES
UNIT	Contents
I	Introduction to OR-Meaning and scope of O.R, Definition of O.R. LPP (Linear Programming Problem). Formulation of LPP, graphical solution of LPP-Problems.
II	Transportation problem- Its definition, feasible solution by North-West corner rule, matrix minima VAM methods. Optimal solution through MODI & stepping stone method for balanced and unbalanced transportation problem..
III	PERT and CPM network - critical and sub critical jobs -Determining the critical path. Network calculation PERT networks probability aspect of PERT- PERT time -PERT cost (omitting Crashing)
IV	Test of Hypothesis-Null and alternative hypothesis(Concept only) One tail and two tail tests, tests of significance based on normal and t-distribution for mean, simple correlation and properties.
V	Test of significance based on chi square and F-distributions for variance, test for goodness of fit and independence of attributes Analysis of variance -One way and two - way classifications with simple problems.

Percentage of Syllabus Revised: 100%

Course Focuses on:

✓	Skill Development	✓	Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

Dr. Jigneesha

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16th
BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: III

Course Code	23212GSC35-
Title	MATHEMATICAL PYTHON
UNIT	Contents
I	Basics of Python Programming: History of Python-Features of Python-Literal-Constants-Variables - Identifiers–Keywords–Built-in Data Types-Output Statements – Input Statements-Comments – Indentation- Operators-Expressions-Type conversions. Python Arrays: Defining and Processing Arrays – Array methods.
II	Control Statements: Selection/Conditional Branching statements: if, if-else, nested if and if-clif-else statements. Iterative Statements: while loop, for loop, else suite in loop and nested loops. Jump Statements: break, continue and pass statements.
III	Functions: Function Definition – Function Call – Variable Scope and its Lifetime-Return Statement. Function Arguments: Required Arguments, Keyword Arguments, Default Arguments and Variable Length Arguments-Recursion. Python Strings: String operations- Immutable Strings - Built-in String Methods and Functions - String Comparison. Modules: import statement- The Python module – dir() function – Modules and Namespace – Defining our own modules.
IV	Lists: Creating a list -Access values in List-Updating values in Lists-Nested lists -Basic list operations-List Methods. Tuples: Creating, Accessing, Updating and Deleting Elements in a tuple – Nested tuples– Difference between lists and tuples. Dictionaries: Creating, Accessing, Updating and Deleting Elements in a Dictionary – Dictionary Functions and Methods - Difference between Lists and Dictionaries.
V	Python File Handling: Types of files in Python - Opening and Closing files-Reading and Writing files: write() and writelines() methods- append() method – read() and readlines() methods – with keyword – Splitting words – File methods - File Positions- Renaming and deleting files.

Percentage of Syllabus Revised: 100%

Course Focuses on:

✓	Skill Development	Entrepreneurial Development
✓	Employability	Innovations
	Intellectual Property Rights	Gender Sensitization
	Social Awareness/ Environment	Constitutional Values/Ethics Rights/Human

D. Diggam

H.O.D.

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16th
BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: IV

Course Code	23212AEC42
Title	DIFFERENTIAL GEOMETRY
UNIT	Contents
I	Space curves: Definition of a space curve – Arc length – tangent – normal and binormal – curvature and torsion – contact between curves and surfaces- tangent surface- involutes and evolutes- Intrinsic equations – Fundamental Existence Theorem for space curves-Helices.
II	Intrinsic properties of a surface: Definition of a surface – curves on a surface – Surface of revolution – Helicoids – Metric- Direction coefficients – families of curves- Isometric correspondence- Intrinsic properties.
III	Geodesics: Geodesics – Canonical geodesic equations – Normal property of geodesics- Existence Theorems – Geodesic parallels – Geodesics curvature- Gauss- Bonnet Theorem – Gaussian curvature- surface of constant curvature.
IV	Non Intrinsic properties of a surface: The second fundamental form- Principle curvature – Lines of curvature – Developable - Developable associated with space curves and with curves on surface - Minimal surfaces – Ruled surfaces.
V	Differential Geometry of Surfaces : Compact surfaces whose points are umbilics- Hilbert's lemma – Compact surface of constant curvature – Complete surface and their characterization – Hilbert's Theorem – Conjugate points on geodesics.

Percentage of Syllabus Revised: 100%

Course Focuses on:

✓	Skill Development		Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

S. Sivaraj

H.O.D.

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S. Sivaraj

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16th
BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: IV

Course Code	23212AEC43
Title	FLUID MECHANICS
UNIT	Contents
I	INTRODUCTION- Note to Students - Definition of a Fluid - Scope of Fluid Mechanics - Basic Equations -Methods of Analysis - System and Control Volume - Differential versus Integral Approach Methods of Description - Dimensions and Units -TO Systems of Dimensions - Systems of Units -Preferred Systems of Units - Summary - Problems
II	INTRODUCTION : Note to Students /1 Definition of a Fluid - Scope of Fluid Mechanics - Basic Equations - Methods of Analysis 15 System and Control Volume - Differential versus Integral Approach Methods of Description /8 Dimensions and Units-TO Systems of Dimensions -Systems of Units - Preferred Systems of Units - Summary - Problems - FUNDAMENTAL CONCEPTS - Fluid as a Continuum - Velocity Field - One-, Two-, and Three- Dimensional Flows - Timelines, Pathlines, Streaklines, and Streamlines - Stress Field - Viscosity /26 Newtonian Fluid - Non-Newtonian Fluids - Surface Tension - Description and Classification of Fluid Motion - Viscous and Inviscid Flows - Laminar and Turbulent Flows - Compressible and Incompressible Flows - Internal and External Flows - Summary - References - Problems
III	INTRODUCTION : Note to Students - Definition of a Fluid - Scope of Fluid Mechanics - Basic Equations - Methods of Analysis - System and Control Volume - Differential versus Integral Approach Methods of Description - Dimensions and Units -TO Systems of Dimensions - Systems of Units - Preferred Systems of Units - Summary - Problems - FUNDAMENTAL CONCEPTS- Fluid as a Continuum - Velocity Field - One-, Two-, and Three- Dimensional Flows - Timelines, Pathlines, Streaklines, and Streamlines - Stress Field - Viscosity - Newtonian Fluid -Non-Newtonian Fluids - Surface Tension - Description and Classification of Fluid Motion - Viscous and Inviscid Flows - Laminar and Turbulent Flows - Compressible and Incompressible Flows - Internal and External Flows - Summary - References - Problems FLUID STATICS- The Basic Equation of Fluid Statics -The Standard Atmosphere - Pressure Variation in a Static Fluid - Incompressible Liquids:

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	Manometers - Gases - Hydraulic Systems - Hydrostatic Force on Submerged Surfaces - Hydrostatic Force on a Plane Submerged Surface - Hydrostatic Force on a Curved Submerged Surface Buoyancy and Stability Fluids in Rigid-Body Motion (CD-ROM) - Summary - References - Problems		
IV	BASIC EQUATIONS IN INTEGRAL FORM FOR A CONTROL VOLUME : Basic Laws for a System - Conservation of Mass - Newton's Second Law - The Angular-Momentum Principle - The First Law of Thermodynamics - The Second Law of Thermodynamics - Relation of System Derivatives to the Control Volume Formulation - Derivation - Physical Interpretation - Conservation of Mass - Special Cases - Momentum Equation for Inertial Control Volume - Differential Control Volume Analysis - Control Volume Moving with Constant Velocity - Momentum Equation for Control Volume with Rectilinear Acceleration - Momentum Equation for Control Volume with Arbitrary Acceleration (CD-ROM) - The Angular-Momentum Principle - Equation for Fixed Control Volume - •Equation for Rotating Control Volume (CD-ROM) - The First Law of Thermodynamics -Rate of Work Done by a Control Volume - Control Volume Equation - The Second Law of Thermodynamics - Summary - Problems		
V	INTRODUCTION TO DIFFERENTIAL ANALYSIS OF FLUID MOTION : Conservation of Mass Rectangular Coordinate System Cylindrical Coordinate System - Stream Function for Two-Dimensional Incompressible Flow - Motion of a Fluid Particle (Kinematics) - Fluid Translation: Acceleration of a Fluid Particle in a Velocity Field - Fluid Rotation - Fluid Deformation - Momentum Equation - Forces Acting on a Fluid Particle - Differential Momentum Equation - Newtonian Fluid: Navier-Stokes Equations - Summary - References - Problems		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

S. Sivasubramanian

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S. Sivasubramanian

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16th
BOS

Faculty: BAS

NEW Course

Board: Mathematics

Semester: IV

Course Code	23212GSC45-		
Title	RESOURCE MANAGEMENT TECHNIQUES		
UNIT	Contents		
I	Introduction to operations Research: Elementary treatment of linear programming simplex Method $<, =, >$ constraints.		
II	Application to Transportation problem- Transportation Algorithm - Degeneracy in Transportation problem, unbalanced transportation problem, Assignment problem - The assignment algorithm - unbalanced assignment problem.		
III	PERT and CPM network : critical and sub critical jobs — Determining the critical path. Network calculation PERT networks probability aspect of PERT — PERT time — PERT cost (omitting Crashing)		
IV	Sequencing Problems : Introduction – Step-wise procedure for determining the optimal sequence for n jobs on 2 machines (Johnson's method) – Processing n jobs on three machines – Processing n jobs on m machines – Processing of two jobs on 'n' machines.		
V	Inventory Theory: Variables in an Inventory problem Techniques of Inventory Control with known demand.		
Percentage of Syllabus Revised: 100%			
Course Focuses on:			
✓	Skill Development	✓	Entrepreneurial Development
✓	Employability	✓	Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Rights/Human Values/Ethics

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16th
BOS

NEW Course

Faculty: BAS

Board: Mathematics

Semester: IV

Course Code	23212TCE-
Title	PROFESSIONAL COMPETENCY SKILL
UNIT	Arithmetic: Profit, Loss and Discount Simple Interest and Compound Interest Time and Work Work and wages
I	Problem Solving: Puzzle Number series Inequalities Missing number Arithmetic problems
II	Analogy: Semantic Symbolic Number Figural
III	Series: Semantic Number Figural
IV	Arithmetic: Profit, Loss and Discount Simple Interest and Compound Interest Time and Work Work and wages
V	Coding and Decoding: Alphabetic codes Word-group Meaning words Symbolic coding and decoding
Percentage of Syllabus Revised: 100%	
Course Focuses on:	

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✓	Skill Development		Entrepreneurial Development
✓	Employability		Innovations
	Intellectual Property Rights		Gender Sensitization
	Social Awareness/ Environment		Constitutional Values/Ethics Rights/Human

S. Sivasubramanian

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SCHOOL OF ARTS AND SCIENCE
DEPARTMENT OF MATHEMATICS

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)

Board: MATHEMATICS

The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	Mathematics
Meeting no	16
Date and Time	26-08-2023 , 2.30 p.m
Venue	Department of Mathematics
Members Attended	The details are given in the ANNEXURE-I

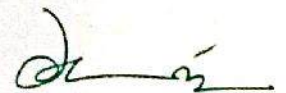
AGENDA	
1	Confirmation of the previous Meeting Minutes
2	Action taken on the previous Meeting Minutes
3	Teaching & Learning Process
4	Course objectives and Course outcomes
5	Programme outcome
6	Students performance
7	Teachers skill development
8	Student feedback related to teaching and learning
9	Department interaction
10	Faculty contribution
11	Activity leads to quality improvement
12	Any other matter



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PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY (PRIST)

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ATTENDANCE OF THE 16 (SIXTEEN) BOARD OF STUDIES MEETING

Board : Mathematics
 Date : 26.06.2023
 Time : 2.30 pm.
 Venue : Department of Mathematics

The following members were present for the Board of Studies meeting

Sl. No.	Name/Designation	Institution/Organizational Full address	Order/ Physical	Signature
1.	Dr.S.Subramanian Chairman	H.O.D. Dept. of Mathematics, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur.	Physical	 H.O.D. DEPARTMENT OF MATHEMATICS PRIST DEEMED TO BE UNIVERSITY THANJAVUR - 613 013
2.	Dr.S.Ramachandram (External Member)	Assistant Professor Dept. of Mathematics, BIT Campus, Anna University, Tirupur - 622 004	Physical	 26/6/2023
3.	Dr.A.Mohan (External Member)	Assistant Professor Dept. of Mathematics, U.D.C. College of Arts and Science, Kattar, Tiruchy.	Physical	 26.6.23 Dr.A.MOHAN W.P. M.Phil. Public Art. HD. Assistant Professor, Ponnaiyah Ramajayam Institute of Science and Technology
4.	Dr.S.Mayakumar	Professor Dept. of Mathematics, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur.	Physical	

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5.	Dr.M.Ramesh Kumar	Professor Dept. of Mathematics, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur	Physical	<i>M. Ramesh Kumar</i>
6.	Dr. I.R. Kirubakaran	Associate Professor Dept. of Mathematics, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur	Physical	<i>I. R. Kirubakaran</i>
7.	Dr. N. Latha	Associate Professor Dept. of Mathematics, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur	Physical	<i>N. Latha</i>
8.	Dr. A. Usha	Assistant Professor Dept. of Mathematics, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur	Physical	<i>A. Usha</i>
9.	Dr. K. Sivaraj	Assistant Professor Dept. of Mathematics, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur	Physical	<i>K. Sivaraj</i>
10.	Ms. S. Priya	Alumni		<i>S. Priya</i>

S. Sivaraj

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11.	Mr. H. Swarnanagil	Student Representative		<i>H. Swarnanagil</i>
12.	Mr. G. Agambala	Student Representative		<i>G. Agambala</i>
13.	Dr. Arivalambi	Co-opted member (Part II - Language - Tamil) Assistant Professor Dept. of Tamil, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur		<i>Dr. Arivalambi</i> 26/11/23
14.	Mr. G. Karakumar	Co-opted member (Part II - Language - English) Assistant Professor Dept. of English, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur		<i>G. Karakumar</i>
15.	Dr. K. T. Seetha Kumar	Co-opted member (Computer Science) Assistant Professor Dept. of Computer Science School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology (PRIST), Thanjavur		<i>Dr. K. T. Seetha Kumar</i>

Date: 28-08-2023

G. Agambala
HOS Chairman/HOS
(Dr. S. Subramanian) = 2/8/23

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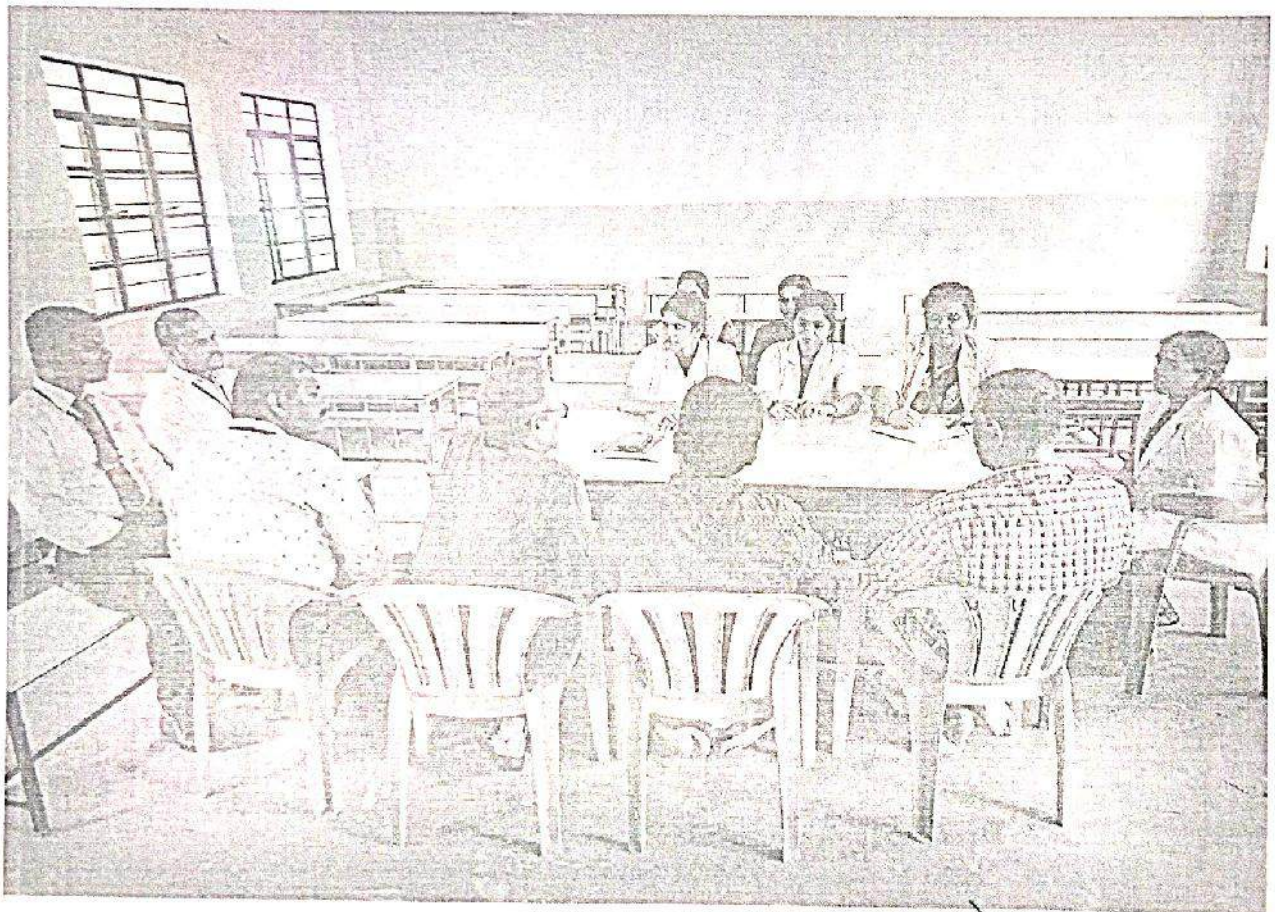
G. Agambala

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G. Agambala

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Dr. Divyanshu

H.O.D

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SCHOOL OF ARTS AND SCIENCE
DEPARTMENT OF COMPUTER SCIENCE

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)*

Board: Computer Science


The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	Computer Science
Meeting no	13
Date and Time	28.6.2023 & 3.00 PM
Venue	L Block
Members Attended	The details are given in the ANNEXURE-I

AGENDA

1	To confirm the minutes of BOS meeting held on 20.04.2022
2	Action taken on the previous Meeting Minutes.
3	Discussion on the development of the BCA and B.Sc. Computer Science New Curriculum under R 2023
4	Discussion on the development of the MCA and M.Sc. Computer Science New Curriculum under R 2023
5	Discussion on Four years Under Graduate Programme (FYUGP) B.Sc Computer Science Hons
6	Discussion on Value added courses
7	Discussion on Activities for the advanced learners
8	Discussion on Part I (Tamil) offered by language department for 2023-2024 batch.
9	Discussion on Part II (English) offered by department of English for 2023-2024 batch
10	Discussion on Part IV (AECC) Environmental Studies by department of BCA and B.Sc. Computer Science for 2023-2024 batch
11	Discussion on credits for Part V Extension Activity for 2023-2024.
12	Other academic activities of the department (Seminars, workshops)
13	Discussion on Indian Knowledge System Syllabus
14	Discussion on Disaster Management syllabus
15	Any other matters


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MINUTES OF THE BOARD OF STUDIES MEETING

Board: Computer Science

The 13th Board of Studies Meeting of the Department of Computer Science, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology was conducted as per the guidelines of the University Grants Commission on 28.6.2023 at 3.00 pm through offline mode. The following Members were present in the meeting.

Dr.K.T.SenthilKumar, Chairman of the Board of Studies Meeting welcomed the Members and in his introducing speech, he explained the details of Agenda and the academic matters to be discussed. The agenda of the meeting was taken up for discussion. The following points were discussed during the meeting. The resolutions made in the Meeting are given below.

The committee appreciated the formulation of syllabus for Computer Science., programme to meet out the criteria of the Education Empowerment and Social Relevance. In Addition, the Committee suggested the following corrections/modifications/ Suggestions in the Programme syllabus

- Programme outcomes (PO) and Programme Specific Outcomes (PSO) to be restructured.
- Course Outcomes (CO) to be restructured for all the Courses.
- Recent reference books to be included in each course.

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AGENDA

1 **Agendum 1:** To confirm the minutes of BOS meeting held on 20.04.2022

Discussion: The minutes of the Board of Studies meeting held on 24th May, 2022 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic council.

Resolution: The Board resolved to accept the same.

2 **Agendum 2:** Action taken on the previous Meeting Minutes.

Discussion: Action taken report of the decisions made in the previous BOS and approved by the academic council. Action taken report was presented in the BOS.



**School of Arts and Science
Department of Computer Science
Action taken report**

1. Summary of the feedback obtained

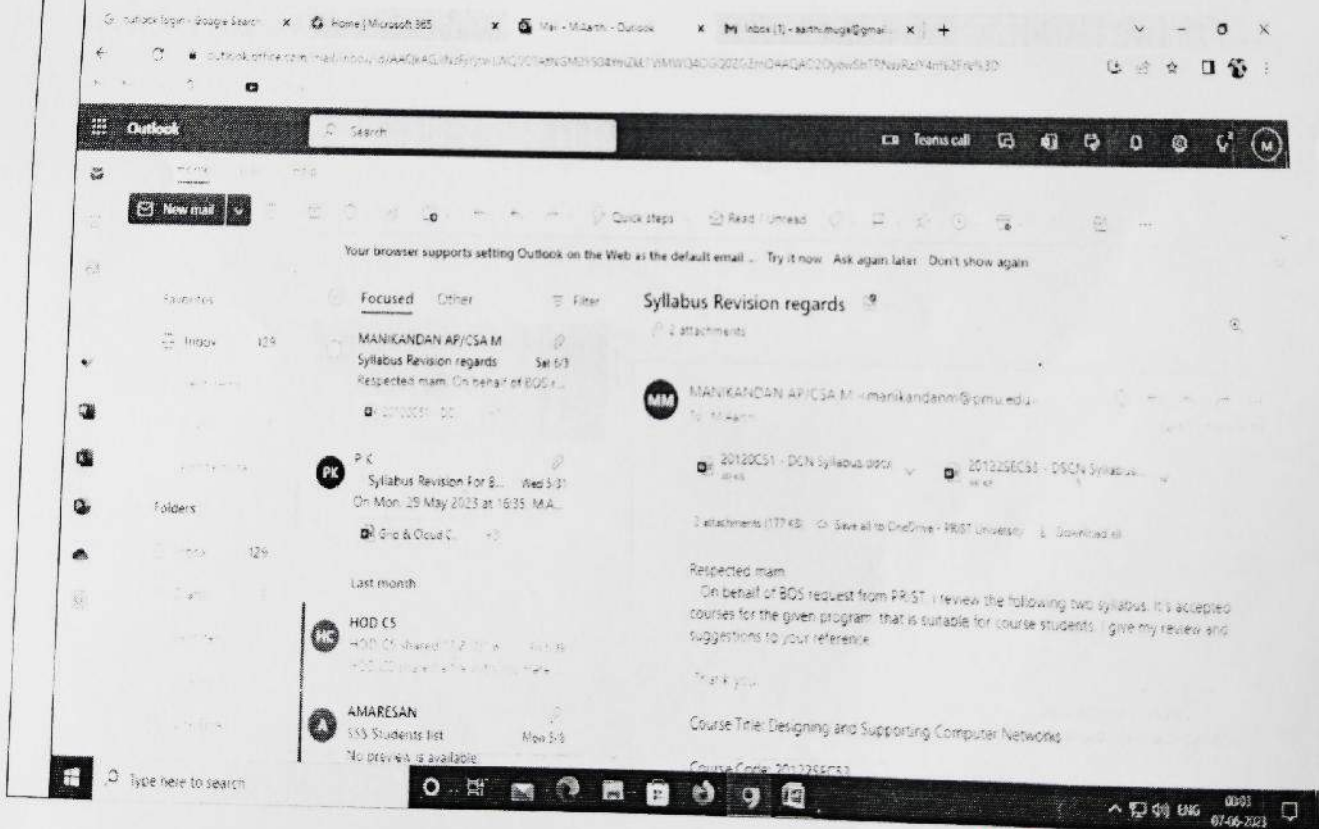
S.No	Feedback statement	Stakeholder	Action (Yes/No)
1	More number of industrial visits can be arranged	Alumni	yes
2	Syllabus content need to be reduced. The content is vast for some of the courses.	Students	Yes
3	Satisfied with the content of current syllabus. Object Oriented Programming, Programming in Java Data Analytics using R Programming, Computer Network chapters can be identified and included in the syllabus.	Employer	yes

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	Data Structure & Algorithm Lab using C++,R Programming practical should be included in syllabus		
4	Industry based curriculum to be added in curriculum and more soft skills are required	Teacher	yes



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Science and Technology (PRIST)
Thanjavur - 613 403.

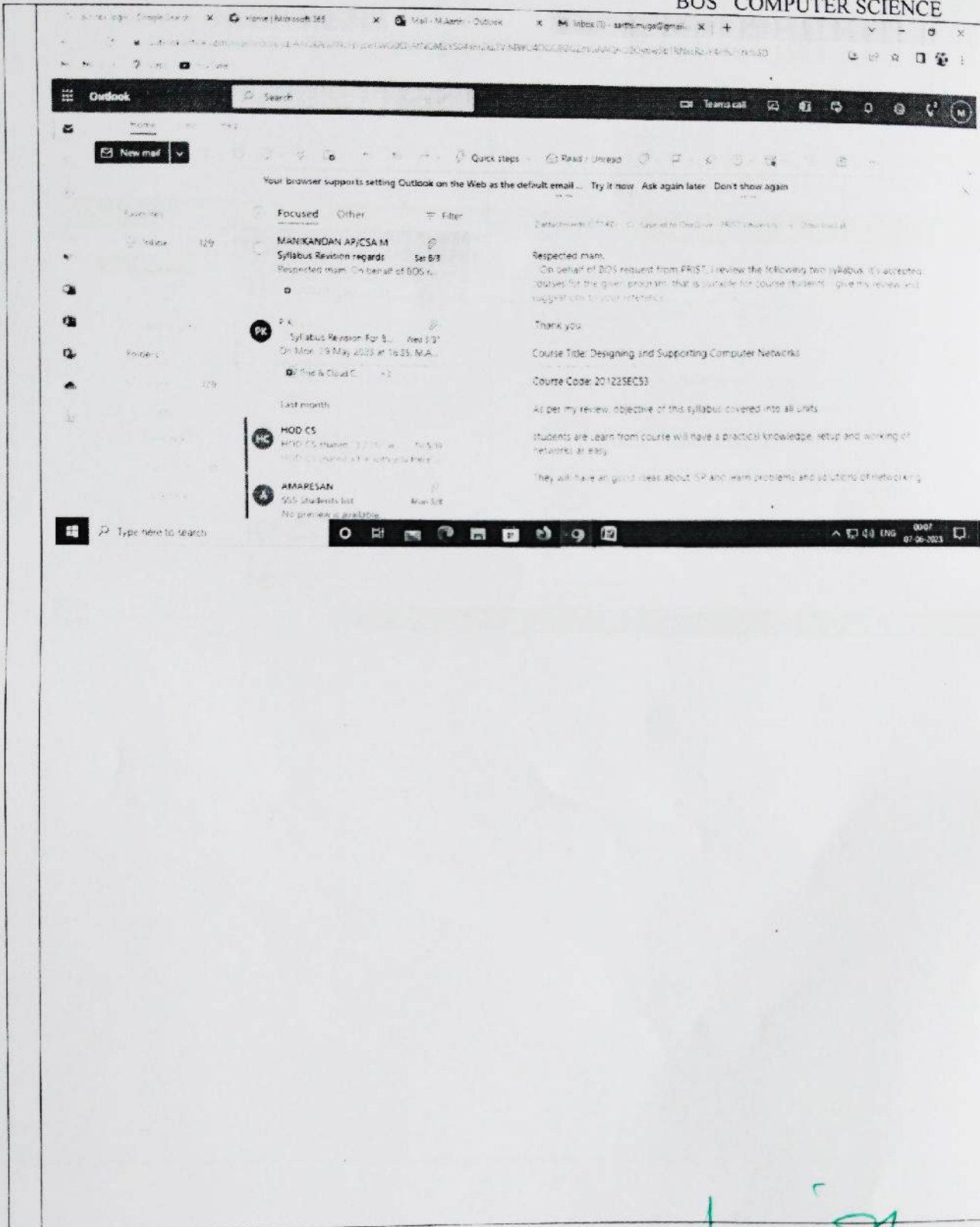
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BOS COMPUTER SCIENCE

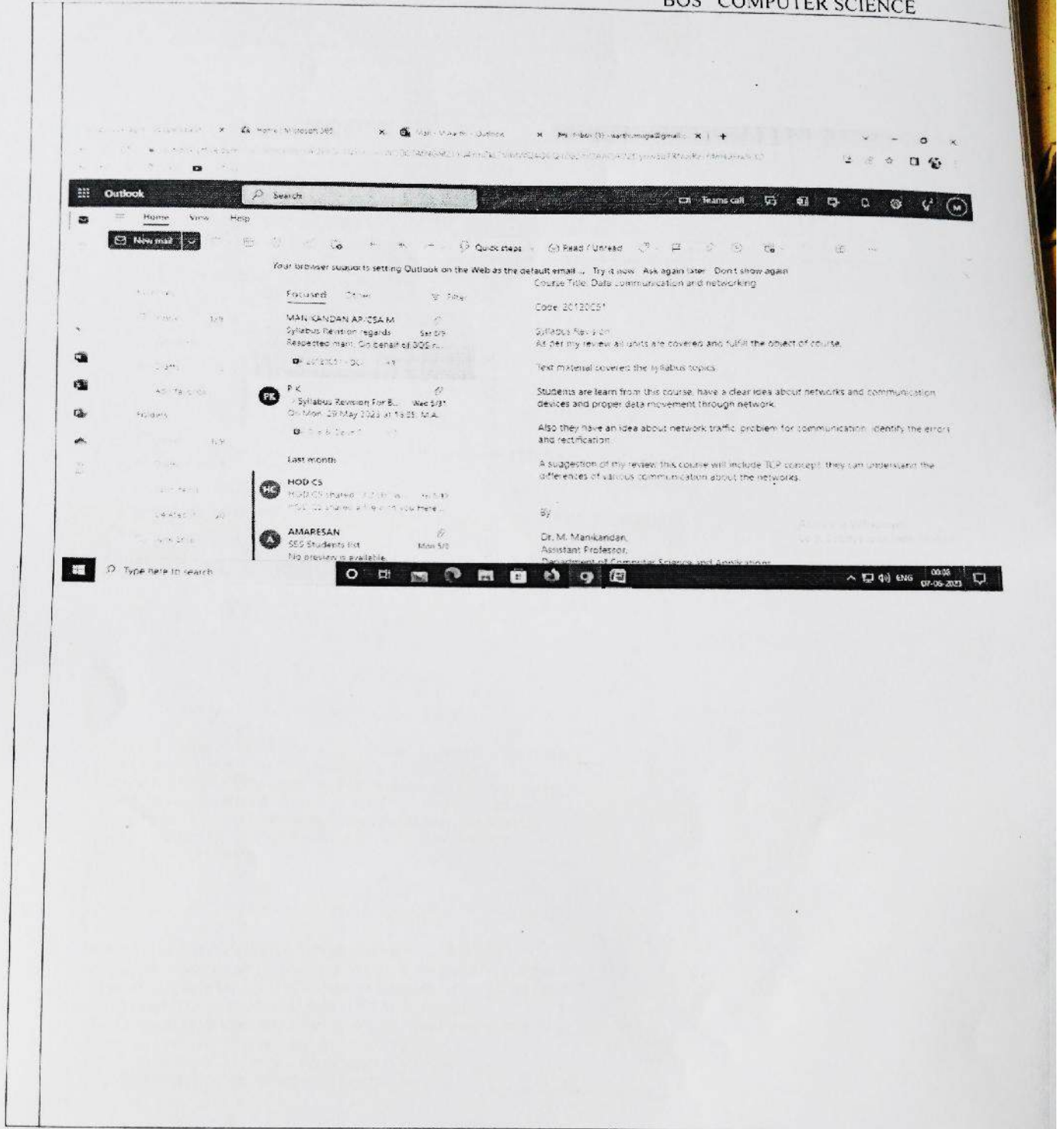


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31 May 2023

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5. EMPLOYERS' FEEDBACK (PERFORMANCE OF ALUMNI AND CURRICULUM)

<https://forms.office.com/r/ZLYaBGcbODc>

10:10 am ✓

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DBMS-SYLLABUS III B.COM CA.docx

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Mam regarding this one ... add Adobe photoshop or Adobe illustrator basics for photo and logo editing for websites and add jQuery and ajax basics for web pages mam..also in php kindly add laravel framework basics mam

12:06 pm

You

DBMS SYLLABUS III B.COM CA.docx (1 page)

Mam regarding this one Kindly make sure that you are covering the index, joins , unions usage in queries and also how to limit the data fetching and difference between the drop , truncate and delete concepts..also demo in live applications like mysql ect..

12:40 pm

fm

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Faculty feedback: Refer to Annexure 3 for the same.

Resolution: The Board resolved to accept the same.

3 **Agendum 3:** Discussion on the development of the Computer Science New Curriculum under R 2023

Discussion: A draft curriculum for BCA, B.Sc. Computer Science was proposed with modification to committee and the following points were discussed.

- The members wanted to confirm the total number of credits accounting for 147.
- The chairman informed that it was done taking guidelines for programmes from the model curricula of both the UGC and Tamil Nadu state Council for Higher Education (TANSICHE).

New Course introduced: UG programme

- 23122DSC14-Numerical Methods
- 23122DSC15-Statistics
- 23122AEC23-Object Oriented Programming
- 23122AEC43- Programming in Java
- 23122AEC51- Operating System
- 23122AEC52- ASP.NET Programming
- 23122AEC61- Computer Network
- 23122AEC62- Data Analytics using R Programming
- 23122DSC24 -Graph Theory and its Applications
- 23122DSC34 -Discrete Mathematics
- 23122DSC44_Statistical Methods and its Applications
- 23122DSC53-Information Security
- 23122DSC54-DBMS
- 23122DSC55-Disaster Management
- 23122DSC63-Human Computer Interaction

Practical Course

- 23122AEC25L- C++ Programming Lab
- 23122AEC35L- Data Structure & Algorithm Lab using C++
- 23122AEC45L- Programming in Java Lab

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- 23122AEC56L- ASP NET Programming Lab
- 23122AEC64L- R Programming Lab

Skill Enhancement Course

- 23122SEC17-Fundamentals of Information Technology
- 23122SEC18-Foundation Course (FC)-Structured Programming Language in C
- 23122SEC26-Quantitative Aptitude
- 23122SEC27-Advanced Excel
- 23122SEC36-Introduction to HTML
- 23122SEC37-Financial Accounting
- 23122SEC47-Enterprise Resource Planning
- 23122SEC48-Multimedia Systems

Audit Course

- 231ACSIKWS-Indian Knowledge System
- 231LSCUV-Universal Human Values

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SCHOOL OF ARTS AND SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
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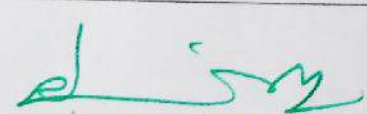
REGULATION 2023 - 2024

COURSE STRUCTURE

SEMESTER-I

Course Code	Course Title - BCA	L	T	P	C
THEORY					
23110AEC11/ 23111AEC11/ 23132AEC11/ 23135AEC11	Tamil - I/Advanced English-I/Hindi-I/ French - I	3	1	0	3
23111AEC12	English-I	3	1	0	3
23122AEC13	Python Programming	4	1	0	3
23122GEC14	Numerical Methods	3	1	0	3
23122GEC15	Statistics	3	1	0	3
PRACTICAL					
23122SEC16L	Python Programming Lab	0	0	3	3
SKILL ENHANCEMENT COURSE					
23122SEC17	Fundamentals of Information Technology	2	0	0	2
23122SEC18	Foundation Course FC-Structured Programming Language in C	2	0	0	2
ABILITY ENHANCEMENT COMPULSORY COURSE(AECCI)					
231AECCINC	Indian Constitution	2	0	0	2
AUDIT COURSE					
231LSCUV	Universal Human Values	-	-	-	1
Total		22	5	3	25



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SEMESTER - II

Course Code	Course Title - BCA	L	T	P	C
THEORY					
23110AEC21/ 23111AEC21/ 23132AEC21/ 23135AEC21	Tamil - II/Advanced English-II/Hindi-II/ French - II	3	1	0	3
23111AEC22	English-II	3	1	0	3
23122AEC23	Object oriented programming concepts using C++	4	1	0	3
23122GEC24	Operations Research	4	1	0	3
23122GEC25	Discrete Mathematics	2	1	0	3
PRACTICAL					
23122SEC26L	C++ Programming Lab	0	0	3	3
SKILL ENHANCEMENT COURSE					
23122SEC27	Quantitative Aptitude	2	0	0	2
23122SEC28	Advanced Excel	2	0	0	2
ABILITY ENHANCEMENT COMPULSORY COURSE(AECCI)					
231AECCCMS	Communication Skills	2	0	0	2
AUDIT COURSE					
231SSCBE	Basic Behavioural Etiquette	-	-	-	1
	Total	22	5	3	25


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SEMESTER - III

Course Code	Course Title - BCA	L	T	P	C
THEORY					
23110AEC31/ 23111AEC31/ 23132AEC31/ 23135AEC31	Tamil - III/Advanced English-III/Hindi-III/ French - III	3	1	0	3
23111AEC32	English-III	3	1	0	3
23122AEC33	Data Structure & Algorithm	5	1	0	4
23122DSC34_	Discipline Specific Elective-I	5	1	0	3
PRACTICAL					
23122SEC35L	Data Structure & Algorithm Lab using C++	0	0	3	3
SKILL ENHANCEMENT COURSE					
23122SEC36	Introduction to HTML	3	0	0	2
23122SEC37	Financial Accounting I	2	0	0	2
ABILITY ENHANCEMENT COMPULSORY COURSE(AECCI)					
23122RMC38	Research Methodology	2	0	0	2
AUDIT COURSE					
231ACLSOAN	Office Automation	-	-	-	1
Total		23	4	3	23

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SEMESTER - IV

Course Code	Course Title - BCA	L	T	P	C
THEORY					
23110AEC41/ 23111AEC41/ 23132AEC41/ 23135AEC41	Tami - IV/Advanced English-IV/Hindi-IV/ French - IV	3	0	0	3
23111AEC42	English-IV	3	0	0	3
23122AEC43	Programming in Java	5	1	0	3
23122DSC44_	Discipline Specific Elective-II	5	1	0	3
PRACTICAL					
23122SEC45L	Programming in Java Lab	0	0	3	3
SKILL ENHANCEMENT COURSE					
23122SEC46	ERP	3	0	0	2
23122SEC47	Multimedia Systems	2	0	0	2
ABILITY ENHANCEMENT COMPULSORY COURSE(AECCI)					
23122BRC48	Participation in Bounded Research	2	0	0	2
231AECCEVS	Environmental Studies	2	-	-	2
AUDIT COURSE					
231LCSCLS	Leadership and Management Skills	-	-	-	1
Total		25	2	3	24

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SEMESTER - V

Course Code	Course Title - BCA	L	T	P	C
THEORY					
23122AEC51	Operating System	5	1	0	4
23122AEC52	ASP.NET Programming	5	1	0	3
23122DSC53	Discipline Specific Elective-III	5	0	0	4
23122DSC54	Discipline Specific Elective-IV	4	0	0	4
23122DSC55	Discipline Specific Elective-V	4	0	0	4
PRACTICAL					
23122SEC56L	ASP.NET Programming Lab	0	0	3	3
231ACLSPSL	Professional Skills	-	-	-	1
23122SEC57	Internship / Industrial Training				2
AUDIT COURSE					
231AECCVED	Value Education	2	-	-	2
	Total	25	2	3	27

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SEMESTER - VI

Course Code	Course Title - BCA	L	T	P	C
THEORY					
23122AEC61	Computer Network	5	1	0	4
23122AEC62	Data Analytics using R Programming	5	0	0	4
23122DSC63	Discipline Specific Elective-VI	5	0	0	3
PRACTICAL					
23122AEC64L	R Programming Lab	0	0	3	3
23122PRW65	Project	8	0	0	4
23122SEC66	Professional Competency Skill General awareness for competitive examination	2	0	0	2
23122EXACT	Extension Activity	-	-	-	1
AUDIT COURSE					
231ACSIKWS	IKS[Indian Knowledge System]	-	-	-	2
	Total	25	2	3	23
Total Credits-Programme					140
Total Credits-Audit Courses					07
Total Credits					147

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Discipline Specific Electives

Semester	Discipline Specific Elective Courses-I
III	a)23122DSC34A-Grid Computing b)23122DSC34B- Big Data Analytics c)23122DSC34C-Natural Language Processing
	Discipline Specific Elective Courses-II
IV	a)23122DSC44A-Image Processing b)23122DSC44B- Analytics for Service Industry c)23122DSC44C-Computational Intelligence
	Discipline Specific Elective Courses-III
V	a)23122DSC53A-Information Security b)23122DSC53B- Artificial Neural Network c)23122DSC53C- Mobile Adhoc Network
	Discipline Specific Elective Courses-IV
	a)23122DSC54A-Database Management System b)23122DSC54B- Agile Project Management c)23122DSC54C- Cloud Computing
	Discipline Specific Elective Courses-V
	23122DSC55A-Disaster Management
	Discipline Specific Elective Courses-VI
VI	a)23122DSC63A-Human Computer Interaction b)23122DSC63B- Data Science c)23122DSC63C- IOT and its Applications

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Credit Distribution for UG Programme

Consolidated Semester wise Credit distribution

Category	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
AEC/Tamil	3	3	3	3	-	-	12
AEC/English	3	3	3	3	-	-	12
AEC/Core	6	6	7	6	10	15	50
GEC/SEC(skill)	10	10	7	7	14	6	54
AECC	3	3	3	5	3	2	19
Total	25	25	23	24	27	23	147

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**B.SC COMPUTER SCIENCE
REGULATION 2023 – 2024
COURSE STRUCTURE**

New Course introduced: UG programme

- 23120AEC23-Datastructure and Algorithms
- 23120AEC33-Microprocessor and Microcontroller
- 23120AEC43- Java Programming
- 23120AEC51- Computer Network
- 23120AEC52- Database Management System
- 23120AEC61- Software Metrics
- 23120AEC62- Data Analytics using R
- 23120DSC14-Numerical Methods
- 23120DSC15-Statistics
- 23120DSC24 -Graph Theory and its Applications
- 23120DSC34 -Discrete Mathematics
- 23120DSC44-Statistical Methods and its Applications
- 23120DSC53-Internet of Things
- 23120DSC54-Software Project Management
- 23120DSC55-Introduction to Data Science
- 23120DSC56-Disaster Management
- 23120DSC63-Robotics & its Applications

Practical Course

- 23120AEC25L- Data Structure & Algorithms Lab
- 23120AEC35L-Microprocessor and Microcontroller Lab
- 23120AEC45L- Java Programming Lab
- 23120AEC56L- ASP NET Programming Lab
- 23120AEC64L- R Programming Lab

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Skill Enhancement Course

- 23120SEC17-Fundamentals of Information Technology
- 23120SEC18-Foundation Course (FC)-Problem Solving Techniques
- 23120SEC26-Quantitative Aptitude
- 23120SEC27-Advanced Excel
- 23120SEC36-Introduction to HTML
- 23120SEC37-Cloud Computing
- 23120SEC46-PHP Programming
- 23120SEC47-Software Testing

Audit Course

- 231ACSIKWS-Indian Knowledge System
- 231LSCUV-Universal Human Values

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BOS COMPUTER SCIENCE

SCHOOL OF ARTS AND SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
B.Sc. COMPUTER SCIENCE
REGULATION 2023 – 2024
COURSE STRUCTURE

SEMESTER-I

Course Code	Course Title - B.Sc. Computer Science	L	T	P	C
THEORY					
23110AEC11/ 23111AEC11/ 23132AEC11/ 23135AEC11	Tamil – I/Advanced English-I/Hindi-I/ French – I	3	1	0	3
23111AEC12	English-I	3	1	0	3
23120AEC13	Python Programming	4	1	0	3
23120GEC14	Numerical Methods	3	1	0	3
23120GEC15	Statistics	3	1	0	3
PRACTICAL					
23120SEC16L	Python Programming Lab	0	0	3	3
SKILL ENHANCEMENT COURSE					
23120SEC17	Fundamentals of Information Technology	2	0	0	2
23120SEC18	Problem Solving Techniques	2	0	0	2
ABILITY ENHANCEMENT COMPULSORY COURSE(AECCI)					
231AECCINC	Indian Constitution	2	0	0	2
AUDIT COURSE					
231LSCUV	Universal Human Values	-	-	-	1
Total		22	5	3	25

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BOS COMPUTER SCIENCE

SEMESTER - II

Course Code	Course Title - B.Sc. Computer Science	L	T	P	C
THEORY					
23110AEC21/ 23111AEC21/ 23132AEC21/ 23135AEC21	Tamil - II/Advanced English-II/Hindi-II/ French - II	3	1	0	3
23111AEC22	English-II	3	1	0	3
23120AEC23	Data Structure & Algorithms	4	1	0	3
23120GEC24	Operations Research	3	1	0	3
23120GEC25	Discrete Mathematics	3	1	0	3
PRACTICAL					
23120SEC26L	Data Structure and Algorithms lab	0	0	3	3
SKILL ENHANCEMENT COURSE					
23120SEC27	Quantitative Aptitude	2	0	0	2
23120SEC28	Advanced Excel	2	0	0	2
ABILITY ENHANCEMENT COMPULSORY COURSE(AECCI)					
231AECCCMS	Communication Skills	2	0	0	2
AUDIT COURSE					
231SSCBE	Basic Behavioural Etiquette	-	-	-	1
Total		22	5	3	25

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BOS COMPUTER SCIENCE

SEMESTER - III

Course Code	Course Title - B.Sc. Computer Science	L	T	P	C
THEORY					
23110AEC31/ 23111AEC31/ 23132AEC31/ 23135AEC31	Tamil - III/Advanced English-III/Hindi-III/ French - III	3	1	0	3
23111AEC32	English-III	3	1	0	3
23120AEC33	Microprocessor and Microcontroller	5	1	0	4
23120DSC34_	Discipline Specific Elective-I	5	1	0	3
PRACTICAL					
23120SEC35L	Microprocessor and Microcontroller lab	0	0	3	3
SKILL ENHANCEMENT COURSE					
23120SEC36	Introduction to HTML	3	0	0	2
23120SEC37	Cloud Computing	2	0	0	2
ABILITY ENHANCEMENT COMPULSORY COURSE(AECC1)					
23120RMC38	Research Methodology	2	0	0	2
AUDIT COURSE					
231ACLSOAN	Office Automation	-	-	-	1
Total		23	4	3	23

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BOS COMPUTER SCIENCE

SEMESTER – IV

Course Code	Course Title - B.Sc. Computer Science	L	T	P	C
THEORY					
23110AEC41/ 23111AEC41/ 23132AEC41/ 23135AEC41	Tamil – IV/Advanced English-IV/Hindi-IV/ French – IV	3	0	0	3
23111AEC42	English-IV	3	0	0	3
23120AEC43	Java Programming	5	1	0	3
23120DSC44	Discipline Specific Elective-II	5	1	0	3
PRACTICAL					
23120SEC45L	Java Programming lab	0	0	3	3
SKILL ENHANCEMENT COURSE					
23120SEC46	PHP Programming	3	0	0	2
23120SEC47	Software Testing	2	0	0	2
ABILITY ENHANCEMENT COMPULSORY COURSE(AECCI)					
23120BRC48	Participation in Bounded Research	2	0	0	2
231AECCEVS	Environmental Studies	2	-	-	2
AUDIT COURSE					
231LCSCLS	Leadership and Management Skills	-	-	-	1
Total		25	2	3	24

SEMESTER – V

Course Code	Course Title - B.Sc. Computer Science	L	T	P	C
THEORY					
23120AEC51	Computer Networks	5	1	0	4
23120AEC52	Advanced Database Management System	5	1	0	3
23120DSC53	Discipline Specific Elective-III	5	0	0	4
23120DSC54	Discipline Specific Elective-IV	4	0	0	4
23120DSC55	Discipline Specific Elective-V	4	0	0	4
PRACTICAL					
23120SEC56L	Advanced Database Management System lab	0	0	3	3
231ACLSPSL	Professional Skills	-	-	-	1
23120SEC58	Internship / Industrial Training				2
AUDIT COURSE					
231AECCEVED	Value Education	2	-	-	2
Total		25	2	3	27

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BOS COMPUTER SCIENCE

SEMESTER - VI

Course Code	Course Title - B.Sc. Computer Science	L	T	P	C
THEORY					
23120AEC61	Software Engineering	5	1	0	4
23120AEC62	.NET Programming	5	1	0	4
23120DSC63	Discipline Specific Elective-VI	5	0	0	3
PRACTICAL					
23120AEC64L	.NET Programming lab	0	0	3	3
23120PRW65	Project	8	0	0	4
23120SEC66	Professional Competency Skill General awareness for competitive examination	2	0	0	2
23120EXACT	Extension Activity	-	-	-	1
AUDIT COURSE					
231ACSIKWS	IKS[Indian Knowledge System]	-	-	-	2
	Total	25	2	3	23
Total Credits-Programme					140
Total Credits-Audit Courses					07
Total Credits					147

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Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403.



Discipline Specific Electives

Semester	Discipline Specific Elective Courses-I
III	a) 23120DSC34A- Image Processing b)23120DSC34B- Big Data Analytics c)23120DSC34C-Natural Language Processing
	Discipline Specific Elective Courses-II
IV	a)23120DSC44A- Agile Project Management b)23120DSC44B- Analytics for Service Industry c)23120DSC44C-Computational Intelligence
	Discipline Specific Elective Courses-III
V	a)23120DSC53A- IOT and its Applications b)23120DSC53B- Artificial Neural Network c)23120DSC53C-Cryptography
	Discipline Specific Elective Courses-IV
	a)23120DSC54A-Introduction to Data science b)23120DSC54B- RDBMS with PL/SQL c)23120DSC54C- Cloud Computing
	Discipline Specific Elective Courses-V
	23120DSC55A-Disaster Management
	Discipline Specific Elective Courses-VI
VI	a)23120DSC63A-Human Computer Interaction b)23120DSC63B- Virtual Reality c)23120DSC63C-Mobile Adhoc Network

for

HOD
Department of Computer Science
School of Arts and Science
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Dr. S. S.


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Credit Distribution for UG Programme

Consolidated Semester wise Credit distribution

Category	Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Total Credits
AEC/Tamil	3	3	3	3	-	-	12
AEC/English	3	3	3	3	-	-	12
AEC/Core	6	6	7	6	10	15	50
GEC/SEC(skill)	10	10	7	7	14	6	54
AECC	3	3	3	5	3	2	19
Total	25	25	23	24	27	23	147

- The members of the Board approved the syllabus for "New Courses Introduced in UG Computer Science" that was proposed to them. Refer to Annexure I for the same
- The LOCF document was presented to the BOS members. The BOS members confirmed that the syllabus-related matter has been incorporated into the LOCF document. Refer to the LOCF document for the same.
- The syllabus for the course "Indian Knowledge System" was presented and discussed with the BOS members, followed by their approval. Refer to Annexure II for the same.
- The syllabus for the course "Disaster Management" was presented and discussed with the BOS members, followed by their approval. Refer to Annexure IV for the same.
- It was proposed that advanced learners should actively participate in peer teaching and be motivated to participate in more than one online course. Activities like the departmental newsletter, student-organised seminars, and journal club discussion forum should be coordinated by them. It was also recommended to conduct a departmental-level finishing school programme for the graduating batch of students. Board members also opined to encourage students to join individual summer internship programmes in order to strengthen their skills and expertise in the field of Computer Science.
- It was resolved to make changes in Allied Physics for BSc Computer Science in the I semester and II semester syllabuses. Refer to Annexure II for the same.


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Resolution: The Board resolved to accept the same. New syllabus for Computer Science approved. It will be effective from Academic year 2023-2024.

Agendum 4: Discussion on the development of the PG Computer Science New Curriculum under R 2023.

A draft curriculum for MCA and M.Sc. Computer Science was proposed with modification to committee and the following points were discussed.

- The members wanted to confirm the total number of credits accounting for 91.
- The chairman informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSICHE) requirements and will put forth this to the Academic Council.

New Course introduced: PG programme

II-MCA [Computer Application]

Core Paper

- 23222AEC11-Discrete Mathematics
- 23222AEC12-Linux and Shell Programming
- 23222AEC13-Python Programming
- 23222AEC21-Data Structure and Algorithms
- 23222AEC22-Big Data Analytics
- 23222DSC23- Internet of Things
- 23222DSC24-Cyber Security
- 23222AEC31-Advanced Java Programming
- 23222AEC32-Web Technology
- 23222AEC33-Advanced Machine Learning (AML)
- 23222AEC41-Data Visualization
- 23222AEC42-Mobile Computing
- 23222DSC43-Social Networks
- 23222DSC27-NME Fundamental of Human Rights
- 23222DSC37-Internship Industrial Activity

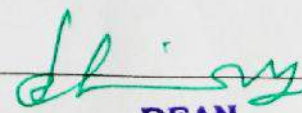
Practical Course

- 23222DSC14L-Linux and Shell Programming Lab
- 23222DSC15L-Python Programming Lab
- 23222AEC25L-Data Structures and Algorithms Lab
- 23222AEC26L-Big Data Analytics Lab
- 23222AEC34L-Advanced Java Programming Lab
- 23222AEC35L-Web Technology Lab
- 23222DSC36L-Integrated Technology (AML) Lab

Skill Enhancement Course

- 23222DSC45- Skill Enhancement Professional Competency Skill


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SCHOOL OF ARTS AND SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
MCA (MASTER OF COMPUTER APPLICATION)
REGULATION 2023 – 2024
COURSE STRUCTURE
SEMESTER-I

Course Code	Course Title – MCA	L	T	P	C
THEORY					
23222AEC11	Discrete Mathematics	5	1	0	4
23222AEC12	Linux and shell programming	4	1	0	3
23222AEC13	Python Programming	4	1	0	3
PRACTICAL					
23222SEC14L	Linux and shell programming Lab	0	0	3	3
23222SEC15L	Python Programming Lab	0	0	3	3
23222SEC16	Data Science	2	-	-	2
23222RMC17	Research Methodology	2	-	-	2
	Total	17	3	6	20

Course Code	Course Title – MCA	L	T	P	C
SEMESTER – II					
THEORY					
23222AEC21	Data Structures and Algorithms	4	1	0	3
23222AEC22	Big Data Analytics	4	1	0	3
23222DSC23	Internet of Things	5	0	0	4
23222DSC24	Cyber Security	5	0	0	4
PRACTICAL					
23222SEC25L	Data Structures and Algorithms Lab	0	0	3	3
23222SEC26L	Big Data Analytics Lab	0	0	3	3
23222SEC27	NME Fundamentals of Human Rights	2	0	0	2
23222BRC28	Participation in Bounded Research	2	0	0	2
23222SEC29	Internship Industrial Activity			0	2
	Total	22	2	6	26

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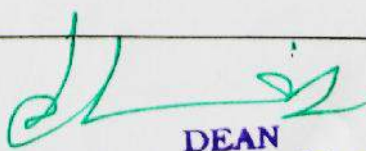
SEMESTER – III

Course Code	Course Title – MCA	L	T	P	C
THEORY					
23222AEC31	Advanced Java Programming	5	2	0	5
23222AEC32	Web Technology	5	2	0	5
23222AEC33	Advanced Machine Learning (AML)	5	2	0	4
PRACTICAL					
23222SEC34L	Advanced Java Programming lab	0	0	3	3
23222SEC35L	Web Technology Lab	0	0	3	3
23222SEC36L	NME Lab- Integrated Technology (AML) Lab	0	0	3	3
23222SEC37	Industrial visit	0	0	0	2
	Total	15	6	9	25

SEMESTER – IV

Course Code	Course Title – MCA	L	T	P	C
THEORY					
23222AEC41	Data Visualization Tools	5	1	0	4
23222AEC42	Mobile Computing	5	1	0	4
23222DSC43	Social Networks	5	1	0	4
23222PRW44	Project with Viva voce	0	0	10	4
23222SEC45	Skill Enhancement Professional Competency Skill	2	0	0	2
23222SEC46	Internship Industrial Activity	-	-	-	2
	Total	17	3	10	20
Total Credits for the Programme					91


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Discipline Specific Electives

Semester	Discipline Specific Elective Courses-I
II	a) 23222DSC23A- Internet of Things b) 23222DSC23B-Internet of Things Lab c) 23222DSC23C- Computer Vision
	Discipline Specific Elective Courses-II
II	a) 23222DSC24A- Cyber Security b) 23222DSC24B- Cyber Security Lab c) 23222DSC24C- Block chain Technologies
	Discipline Specific Elective Courses-III
IV	a) 23222DSC43A- Social Networks b) 23222DSC43B- Social Networks Lab c) 23222DSC43C- High Performance Computing

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BOS COMPUTER SCIENCE

Credit Distribution for PG Programme
Consolidated Semester wise Credit distribution
MCA (MASTER OF COMPUTER APPLICATION)

Category	Sem I	Sem II	Sem III	Sem IV	Total Credits
Core	21	15	19	14	66
Elective	-	6	-	4	13
skill	2	2	4	4	12
Total	23	23	23	22	91

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BOS COMPUTER SCIENCE

SCHOOL OF ARTS AND SCIENCE,
DEPARTMENT OF COMPUTER SCIENCE

M.Sc. COMPUTER SCIENCE

REGULATION 2023 – 2024

COURSE STRUCTURE

SEMESTER – I

Course Code	Course Title – M.Sc.[CS]	L	T	P	C
THEORY & LAB					
23220AEC11	Analysis & Design of Algorithms	4	2	-	4
23220AEC12	Object Oriented Analysis and Design & C++	4	2	-	4
23220AEC13	Python Programming	5	2	-	5
23220DSC14	Critical Thinking, Design Thinking and Problem Solving	5	1	-	5
23220SEC15L	Practical I: Algorithm and OOPS Lab	0	0	3	3
23220RMC16	Research Methodology	2	-	-	2
	Total	20	7	3	23

SEMESTER – II

Course Code	Course Title – M.Sc.[CS]	L	T	P	C
THEORY & LAB					
23220AEC21	Data Mining and Warehousing	5	1	-	4
23220AEC22	Advanced Operating Systems	5	1	-	4
23220AEC23	Advanced Java Programming	4	1	-	4
23220DSC24	Artificial Intelligence & Machine Learning	4	1	-	4
23220SEC25L	Advanced Java Programming Lab	0	0	3	3
23220SEC26L	Data Mining Lab using R	0	0	3	3
23220BRC27	Participation in Bounded Research	2	0	0	2
23220SEC28	Internship Industrial Activity			0	2
	Total	20	4	6	26

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Department of
Computer Science



SEMESTER – III

Course Code	Course Title – M.Sc.[CS]	L	T	P	C
THEORY & LAB					
23220AEC31	Digital Image Processing	5	1	-	5
23220AEC32	Cloud Computing	5	1	-	5
23220AEC33	Network Security and Cryptography	5	1	-	4
23220AEC34	Data Science & Analytics	5	1	-	4
23220SEC35L	Digital Image Processing Lab using MATLAB	0	0	3	3
23220SEC36L	NME: Cloud Computing Lab	0	0	3	3
23220SEC37	Industrial visit	-	-	-	2
	Total	20	4	6	26

SEMESTER – IV

Course Code	Course Title – M.Sc.[CS]	L	T	P	C
THEORY & LAB					
23220SEC41L	Python Programming Lab	0	1	3	3
23220AEC42	Web Application development & hosting Practical	6	2	0	5
23220PRW43	Project with Viva voce	0	2	10	4
23220SEC44	Skill Enhancement Professional Competency Skill	2	2	0	2
23220SEC45	Internship	-	-	2	2
	Total	8	7	15	16
	Total Credits for the Programme				91

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BOS COMPUTER SCIENCE

Name of the course/programme	Course/programme Code	Year of offering
Diploma course on AI and ML using pytorch	23DIP01	2023
Certificate course on Block Chain technology	23CC01	2023
Resolution: The committee recommended and approved the courses.		
7	Agendum 7: Discussion on Activities for the advanced learners	
	Discussion: Advanced learners should be encouraged to study for and write competitive exams. They should be sent to higher level institutions for internships so that they can continue their higher studies there.	
	Resolution: The Board resolved to accept the same.	
8	Agendum 8: Discussion on Part I (Tamil) offered by language department for 2023-2024 batch.	
	Discussion: 23110AEC11/ 23110AEC21/23110AEC31/23110AEC41: Part I: Tamil (New Course). The unified syllabi approved by the Board of Studies in Languages were placed for endorsement	
	Resolution: The Board unanimously approved the syllabi	
9	Agendum 9: Discussion on Part II (English) offered by department of English for 2023-2024 batch	
	Discussion: 23111AEC11/ 23111AEC21/23111AEC31/23111AEC41: Part II: English (New Course). The unified syllabi approved by the Board of Studies in English were placed for endorsement.	
	Resolution: The Board unanimously approved the syllabus	
10	Agendum 10: Discussion on Part IV (AECC) Environmental Studies by department of Computer Science for 2023-2024 batch	
	Discussion: 231AECCEVS: Environmental Studies-I The unified syllabi approved by the Board of Studies in Computer Science were placed for endorsement.	
	Resolution: The Board unanimously approved the syllabus.	
11	Agendum 11: Discussion on credits for Part V Extension Activity for 2023-2024.	
	Discussion: One credit to be awarded for participation in Extension activity like YRC/NCC/NSS/RRC/YOGA/SPORTS/Clubs.	
	Resolution: The Board members approved one credit for Extension activity.	
12	Agendum 12: Other academic activities of the department (Seminars, workshops)	
	Discussion: The online seminars, workshops, intercollegiate competitions conducted by the department during this academic year were discussed.	
	Resolution: The Board took note of the details presented.	
13	Agendum 13: Discussion on Indian Knowledge System Syllabus	

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	Discussion: by the department during this academic year were discussed.
	Resolution: The Board resolved to accept the same
14	Agendum 14: Discussion on Disaster Management
	Discussion: 23122DSC55 _ Disaster Management The unified syllabi approved by the Board of Studies in Computer Science were placed for endorsement.
	Resolution: The Board resolved to accept the same.
15	Agendum 15: Any other matters
	Discussion: <ul style="list-style-type: none"> • The board of studies in Computer Science recommends the panel of experts for examination purposes as per the guidelines of the institution. • The board also suggested to take measures to improve the creative and innovative thinking ability of the post graduate students by assigning critical research problems in projects and practical's. • The suggestions received from the parents, students Alumni and employer viz, practical oriented curriculum and skill enhancement internship trainings were discussed. • The board also suggested enlisting minimal skill sets required to pass the degree programme.
	Resolution: The board resolved to consider the above mentioned recommendations.

The members had a brainstorming discussion and interaction among themselves. Ager discussion. fruitful suggestions were incorporated appropriately in the curriculum and syllabus of R-2023.


Based on the suggestion given by the members, BOS resolved to recommend the syllabus for Computer Science under Regulation 2023 to the Academic Council for further approval.


The chairman of Board of Studies (BOS) thanked all the members for their kind cooperation and the meeting came to an end.

Date: 28.06.2023

(Dr.K.T.Senthil Kumar)

BOS Chairman/HOD Seal
HOD


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Department of Computer Science
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Ponnalyah Ramajayam Institute of
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MEMBERS IN THE THIRTEENTH BOARD OF STUDIES MEETING

Board: Computer Science

Date: 28.6.2023

Time: 3.00 PM

Venue: "L" Block, Ground Floor

S.No.	Name/Degree/Designation	Institute/Organization/ Full address
1.	Dr.K.T.Senthil Kumar HOD	Chairman Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur.
2.	Dr.G.Ambika Assistant Professor	Industrial Expert Assistant Professor, Bon Secours College For Women, Thanjavur.
3.	Dr.T.Thamarai Selvan Managing Director,	Academic Expert Isysway Technologies, Thanjavur
4.	Mrs.M.Aarthi Assistant Professor	Assistant Professor , Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur
5.	Mr.D.S.ChozhaBharathi Assistant Professor,	Assistant Professor , Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur
6.	Mr.K.Vijayabaskar Assistant Professor,	Assistant Professor , Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur
7.	Mrs.R.Suganya Assistant Professor	Assistant Professor , Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur
8.	Mrs.S.Sathiyapriya Assistant Professor,	Assistant Professor , Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur
9.	Mrs.K.Priyadharshini Assistant Professor	Assistant Professor , Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur

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10	Ms.S.Ranjith Raja	Alumni Software Engineer, Health Asyst Pvt Ltd, Bangalore
11	Ency.D. MCA Student	<u>Student Representatives</u> II MCA
12	Mrs.K.Veenaimuthu Assistant Professor,	<u>Co-opted member</u> Part I-Language-Tamil Assistant Professor, Department of Tamil, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur
13	Mr.S.Rasakumar Assistant Professor,	<u>Co-opted member</u> Part II-Language-English Assistant Professor, Department of English, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur.
14	Mrs.K.Sathya Assistant Professor,	<u>Co-opted member</u> (Allied) Assistant Professor, Department of Commerce, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur.

Date: 28.6.23

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BOS Chairman/HOD

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ATTENDANCE OF THE THIRTEENTH BOARD OF STUDIES MEETING

Board: Computer Science

Date: 28.6.2023

Time: 3.00 PM

Venue: "L" Block, Ground Floor

The following members were present for the Board of Studies meeting

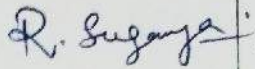

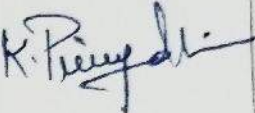
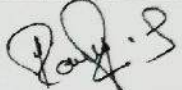



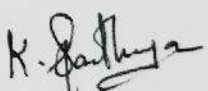
S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Online/Physical	Signature (scan, if online)
1.	Dr.K.T.Senthil Kumar HOD	Chairman Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur.	Physical	
2.	Dr.G.Ambika Assistant Professor	Industrial Expert Assistant Professor, Bon Secours College For Women, Thanjavur,	Physical	
3.	Dr.T.Thamarai Selvan Managing Director,	Academic Expert Isysway Technologies, Thanjavur	Physical	
4.	Mrs.M.Aarthi Assistant Professor	Assistant Professor, Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur	Physical	
5.	Mr.D.S.ChozhaBharathi Assistant Professor,	Assistant Professor, Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur	Physical	
6.	Mr.K.Vijayabaskar Assistant Professor,	Assistant Professor, Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur	Physical	

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7.	Mrs.R.Suganya Assistant Professor	Assistant Professor, Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur	Physical	
8.	Mrs.S.Sathiyapriya Assistant Professor,	Assistant Professor, Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur	Physical	
9.	Mrs.K.Priyadharshini Assistant Professor	Assistant Professor, Department of Computer Science, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur	Physical	
10.	Ms.S.Ranjith Raja	Alumni Software Engineer, Health Asyst Pvt Ltd, Bangalore	Physical	
11.	Ency.D. MCA Student	Student Representatives II MCA	Physical	
12.	Mrs.K.Veenaimuthu Assistant Professor,	Co-opted member Part I-Language-Tamil Assistant Professor, Department of Tamil, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur	Physical	
13.	Mr.S.Rasakumar Assistant Professor,	Co-opted member Part II-Language-English Assistant Professor, Department of English, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur.	Physical	
14.	Mrs.K.Sathya Assistant Professor,	Co-opted member (Allied) Assistant Professor, Department of Commerce, Ponnaiyah Ramajayam Institute of Science and Technology, Thanjavur.	Physical	




Date: 28.6.23

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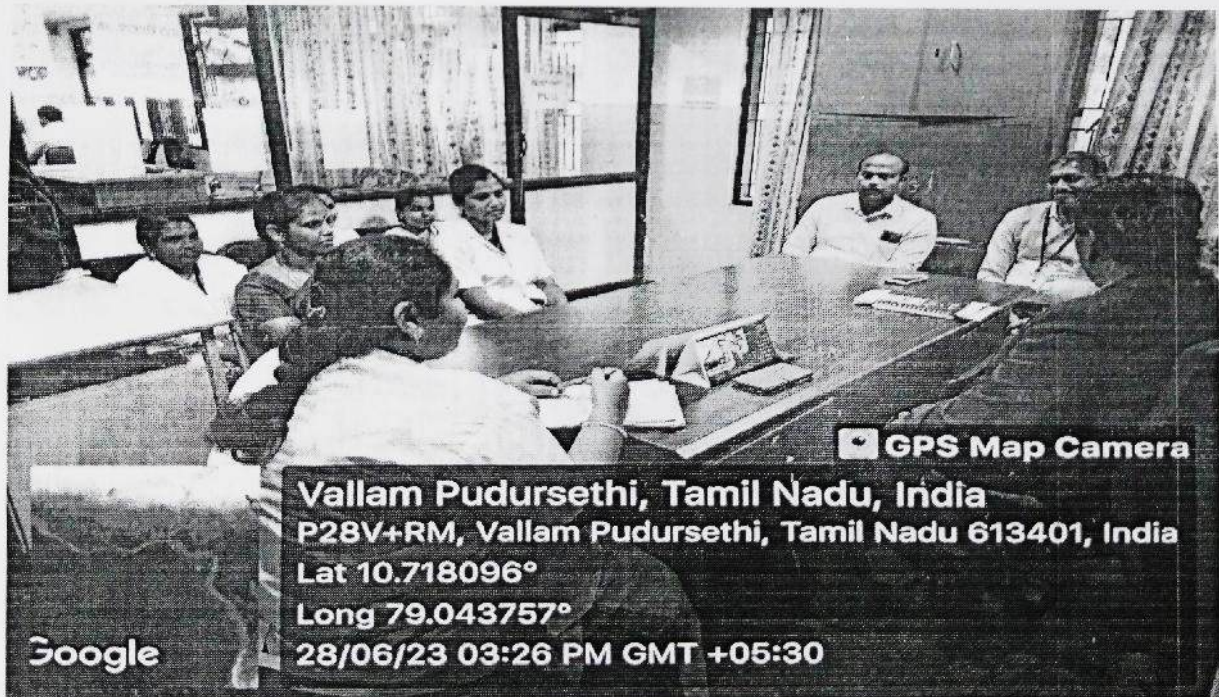
BOS Chairman/HOD
HOD
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BOS COMPUTER SCIENCE



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SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF ENGLISH

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)*

Board: Department of English

The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	English
Meeting no	16
Date and Time	16.6.23
Venue	A block
Members Attended	The details are given in the ANNEXURE-I

AGENDA

1	Action taken on the previous Meeting Minutes.
2	Discussion made on Advanced English syllabus change
3	Discussion on the change of English –I Syllabus according to the guidance of TANSCH 2023
4	Discussion on the development of the BA English New Curriculum under 2023
5	Discussion on the development of the MA English New Curriculum under 2023
6	Discussion on Value added courses
7	Any other matter discussions / suggestions / modifications given by Panel of examiner (Ug/Pg)

B. S. Srinivasan
HOD

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Department of English
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University

Dean *[Signature]*
School of Arts & Science
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
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MINUTES OF THE BOARD OF STUDIES MEETING

Board: ENGLISH

The Chairperson of BOS welcomed all the panel members for the meeting. The items listed in the agenda were taken for discussion.

The 16th Board of Studies Meeting of the Department of English, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology was conducted as per the guidelines of the University Grants Commission on 16.6.2023 at 11.00 am. The following members were attending the meeting.

Dr.L. Chinappa, Chairperson of the Board of Studies Meeting welcomed the Members in his introducing speech, he explained the details of the Agenda and the academic matters to be discussed. The agenda of the meeting was taken up for discussion. The following points were discussed during the meeting. The resolutions made in the Meeting are given below.

The committee appreciated the formulation of syllabus for B.A. & M.A. English programme to meet out the criteria of the Education Empowerment and Social Relevance. In Addition, the Committee suggested the following corrections/modifications/ Suggestions in the Programme syllabus

- Programme outcomes (PO) and Programme Specific Outcomes (PSO) to be restructured.
- Course Outcomes (CO) to be restructured for all the Courses.
- Recent reference books to be included in each course.

Prinayan

HOD

Department of English
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 402

[Signature]

Dean

School of Arts & Science
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403.

The following are the minutes of the meeting:

Agendum 1: To confirm the minutes of BOS meeting held on 06.06.2022

Discussion: The minutes of the Board of Studies meeting held on 06.06.2022 were presented to the members. The suggestions received have been incorporated and placed for confirmation. The same was approved by the Academic council.

Resolution: The Board resolved to accept the same.

Agendum 2: Action taken on the previous Meeting Minutes.

Discussion: Action taken report of the decisions made in the previous BOS and approved by the academic council. Action taken report was presented in the BOS.

S N.O	FEEDBACK	STAKE HOLDER	ACTION TAKEN (YES/NO)
1	More Commuication Related Classes Needed	Alumini	Yes
2	Syllabus Content Need To Be Reduced. There Were Lot Of Works In Few Units ; So For Cant Go Through All Works .	Students	Yes
3	* satisfied with Current Syllabus Yet we wish to add few more communicative papers relevent to Office & Technical English. *Soft Skills Related Papers Required	Employers	Yes
4.	Language Tours Are Needed	Alumini	Noted

Resolution: The Board resolved to accept the same.

Agendum 3: The board members discussed on Advanced English syllabus change

Discussion: Discussions for the enhancement of Advanced English New Curriculum under 2023 was proposed in front of the Board

23111AEC11	Advanced English-I
23111AEC21	Advanced English-II

P. Princy
Department of English
Ponnalyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403.

[Signature]
Dean
School of Arts & Science
Ponnalyah Ramajayam Institute of
Science & Technology (PRIST)
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23111AEC31	Advanced English-III
23111AEC41	Advanced English-IV

Resolution: The board resolved to approve the finalized curriculum and contents.

Agendum 4: Discussion held on semester wise syllabus of General English

Discussion: The following courses were submitted to the board members;

23111AEC11	Paper I – English- I
23111AEC22	Paper II– English- II
23111AEC32	Paper III– English -III
23111AEC42	Paper IV– English - IV

Resolution: The board members recommended including technical English exercises as supplementary materials for all units. The courses and the contents in every unit were discussed. After thorough, the experts suggested no amends in new syllabus which is recommended by Tamilnadu Academic Council.

The board resolved to approve the finalized curriculum and contents.

Agendum 5: Discussion made on the BA English Literature syllabus & its improvement

Discussion: A current curriculum for BA English was proposed with modifications to the committee and following points were discussed.

- The members wanted to confirm the total number of credits accounting for 147.
- The chairperson informed that it was done according to the Tamil Nadu state Council for Higher Education (TANSCH) requirements and will propose this to the Academic Council.

The following courses were submitted to the board members.

SEMESTER I	
23111CC13	Introduction To English Literature
23111CC14	Indian Writing In English
23111GEC15	Social History Of England
23111GEC16	Myth and Literature
23111SEC17	Green literature
231AECINC	Indian Constitution

P. Jayaram

HOD
Department of English
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403

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SEMESTER II

23111AEC23	British Literature-I
23111AEC24	American Literature-I
23111GEC25	History Of English Literature
23111 GEC26	Film And Literature
23111SEC27	Philosophy for Literature
23111SEC28	Spoken and Presentation skills
231AECCMS	Communication Skills

SEMESTER III

23111AEC33	British Literature-II
23111AEC34	Biographies, Auto- Biographies & Memoirs
23111GEC35	Literary genres and terms
23111GEC36	ELT and computer Assisted Language Learning

SEMESTER IV

23111AEC43	American Literature-II
23111AEC44	World literature in translation
23111GEC45	Film Studies
23111GEC46	Translation: Basic Concepts and Practice
23111SEC47	English For Business
23111SEC48	English For Careers
23111BRC49	Participation In Bounded Research
231AECCEVS	Environmental Studies -II
231LSCLS	Leadership And Management Skills

SEMESTER V

23111AEC51	Aspects Of Language And Linguistics
23111 AEC52	Authors In Focus
23111 AEC53	Women's Writing In English And In Translation
23111 AEC54	Indian Writing In Translation
23111DSC55A	Disaster Management
23111DSC55B	Writing For Media
23111DSC56	Mass Communication And Journalism
231AECVED	Value Education
23111SEC57	Internship/Industrial Visit/Field Visit

P. Vijayan.
HOD
 Department of English
 Ponnaiyah Ramajayam Institute of
 Science & Technology (PRIST)
 Deemed to be University
 Vallam, Thanjavur - 613 403.

[Signature]
Dean
 School of Arts & Science
 Ponnaiyah Ramajayam Institute of
 Science & Technology (PRIST)
 Deemed to be University
 Vallam, Thanjavur - 613 403.

231ACLSPSL	Professional Skills
SEMESTER VI	
23111AEC61	Shakespeare studies
23111AEC62	Literary Criticism
23111DSC63	Art and literary aesthetics
23111SEC65	Professional Competency Skill- General Awareness For Competitive Examination
231EXACT	Extension Activity
231ACSIKWS	Indian Knowledge System

The syllabus for the course "Indian Knowledge System" was presented and discussed with the BOS members, followed by their approval.

The syllabus for the course "Disaster Management" was presented and discussed with the BOS members, followed by their approval. It was proposed that advanced learners should actively participate in peer teaching and be motivated to participate in more than one online course.

Activities like the departmental newsletter, student-organized seminars, and journal club discussion forum should be coordinated by them. It was also recommended to conduct a departmental-level finishing school programme for the graduating batch of students. Board members also opined to encourage students to join individual summer internship programme in reputed Research Institutions.

Ponnaiyasa
HOD

Department of English
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403.

[Signature]

Dean
School of Arts & Science
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Resolution: The board member suggested to add a NET competitive exam paper as a core paper
The board members suggested reducing the contents in all the core papers so as to maintain uniformity.
Also Dr. Arunachalam intimates that the paper needs to be added for NET competitive exam paper.

Agendum 7: Regarding communication skills paper , Syllabus for Job oriented certificate Programme

Discussion:

Alumni suggests that the introduction to communication skills and their techniques need to be introduced in Unit I n order to ease the understanding of the four skills.

The entire syllabus was framed in en-composing all the four skills [LSRW] by giving equal weight-age to all the units. The topic and content was discussed in detail and finalized. JOB oriented programme introduced.

Resolution: The board resolves to approve the syllabus.

P. Princy
HOD

Department of English
Ponnalyah Ramajayam Institute
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403.

[Signature]

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Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403

Agendum 8: Discussion made on the M.A. English Literature syllabus & its improvement

English Poetry	23211AEC11
English Drama	23211AEC12
English Fiction	23211AEC13
Indian Writing in English	23211GEC14
Discipline specific Elective-I	23211DSC15
Research Methodology	23211RMC16
American Literature	23211AEC21
Shakespeare Studies	23211AEC22
Post-colonial Theory and Literature	23211AEC23
Approaches to English Language Teaching	23211GEC24
Discipline specific Elective-II	23211DSC25
Entrepreneurship development	23211SEC26
Internship* / Tourism	23211SEC28
Participation In Bounded Research	23211BRC27
Contemporary Literary Criticism	23211AEC31
Canadian Studies	23211AEC32
Literature of the Marginalized in India	23211AEC33
Translation Studies	23211SEC34
Discipline specific Elective-III	23211DSC35
Leadership Skills	23211SEC36
Internship / Industrial Activity	23211SEC37
Twenty First Century Millennial Literature and Culture	23211AEC41
Subaltern Studies	23211AEC42
Film and Media Studies	23211AEC43
English for Careers	23211GEC44
Project	23211PRW45
English Teaching methods, Aptitude, Attitude for competitive examination	23211SEC46

Resolution: Above New courses were introduced according to the need and welfair of the students , which contains skill and employability,

Agendum 9: Feedback received from the alumni & parent

Discussion: As per alumni suggestion separate spoken English hours suggest to the I year students.

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Department of English
Ponnalyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Thanjavur - 613 403

Dean

School of Arts & Science
Ponnalyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University
Thanjavur - 613 403

Resolution: communication skills course paper & the practical hours satisfied the concept

Agendum 10: As per alumni opine : About Department library

Discussion: Department library need to have more books and hour as well as students need a hour for library in specific

Resolution: The board considers this opine and suggests that the students make use of their leisure time and after the class session over.

PERCENTAGE OF SYLLABUS REVISED:

COURSE FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability	✓	Professional Ethics
✓	Gender Sensitization	✓	Human Values
✓	Social Awareness/Environment	✓	Environment and Sustainability
✓	Intellectual Property Rights		

P. Vijayaraj

HO
Department of English
Ponnaiyah Ramajayam Institute
Science & Technology (PRIST)
Deemed to be University
Vallam, Thanjavur - 613 403.

[Signature]

Dean
School of Arts & Science
Ponnaiyah Ramajayam Institute
Science & Technology (PRIST)
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Vallam, Thanjavur - 613 403.



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SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF BIOCHEMISTRY

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)*

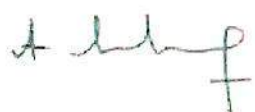
Board: Biochemistry

The Meeting of Board of Studies (BOS) was held as given below:

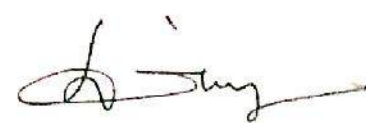
Name of the Body	Board of Studies
Department	Biochemistry
Meeting no	13 rd
Date and Time	26.06.2023 & 2.30 P.M.
Venue	Department of Biochemistry, Hybrid Mode : Offline & Online Online Link: https://meet.google.com/hdo-isnh-fvt
Members Attended	The details are given in the ANNEXURE-I

AGENDA

1	To confirm the minutes of BOS meeting held on 26.06.2023
2	Action taken on the previous Meeting Minutes.
3	Discussion on the development of the B.Sc., Biochemistry New Curriculum 2023
4	Discussion on the development of the M.Sc., Biochemistry New Curriculum 2023
5	Discussion on Value added courses
6	Discussion on Activities for the advanced learners
7	Discussion on Part I (Tamil) offered by language department for 2023-2026 batch.
8	Discussion on Part II (English) offered by department of English for 2023-2026 batch
9	Discussion on credits for Part V Extension Activity for 2023-2024.
10	Other academic activities of the department (Seminars, workshops)
11	Discussion on Indian Knowledge System Syllabus
12	Discussion on Disaster Management syllabus
13	Any other matters


Head of the Department
Department of Biochemistry
School of Arts & Science
PRIST Deemed to be University
Thiruvananthapuram - 611 009

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DEAN
School of Arts & Science
Ponnaiyah Ramajayam Institute of
Science & Technology (PRIST)
Deemed to be University,
Vellam, Thiruvananthapuram - 611 403.



MINUTES OF THE BOARD OF STUDIES MEETING

Board: Biochemistry


The 13th Board of Studies Meeting of the Department of Biochemistry, School of Arts and Science, Ponnaiyah Ramajayam Institute of Science and Technology was conducted as per the guidelines of the University Grants Commission on 26.06.2023 at 2.30 P.M. through hybrid mode- online (Google meet) platform and offline mode. The following Members were present in the meeting.

Dr. A. Bakrudeen Ali Ahamed , Chairman of the Board of Studies Meeting welcome the Members and in her introducing speech, he explained the details of Agenda and the academic matters to be discussed. The agenda of the meeting was taken up for discussion. The following points were discussed during the meeting. The resolutions made in the Meeting are given below.


The committee appreciated the formulation of syllabus for B.Sc., Biochemistry programme to meet out the criteria of the Education Empowerment and Social Relevance. In Addition, the Committee suggested the following corrections/modifications/ Suggestions in the Programme syllabus

- Programme outcomes (PO) and Programme Specific Outcomes (PSO) to be restructured.
- Course Outcomes (CO) to be restructured for all the Courses.
- Recent reference books to be included in each course.

AGENDA	
1	Agendum1: To confirm the minutes of BOS meeting held on 26.06.2023
	Discussion: The minutes of the Board of Studies meeting held on 26 th June, 2023 were communicated to the members. The comments received have been incorporated and placed for confirmation. The same was approved by the Academic Council.
	Resolution: The Board resolved to accept the same.
2	Agendum2: Action taken on the previous Meeting Minutes.
	Discussion: Action taken report of the decisions made in the previous BoS and approved by the academic council. Action taken report was presented in the BOS.
	Resolution: The Board resolved to accept the same.


Head of the Department
Department of Biochemistry
School of Arts & Science
PRIST Deemed to be University
Thanjavur-613 403

2


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Ponnaiyah Ramajayam Institute of
Science & Technology
Deemed to be University
Vallam, Thanjavur - 613 403



3 Agendum 3: Discussion on the development of the M.Sc., Biochemistry New Curriculum 2023

Discussion:

A draft curriculum for B.Sc., Biochemistry was proposed with modification to the committee and the following points was discussed.

- ❖ The members of the Board proposed to Introduction of 100% revision of new courses for UG which was helpful for the enhancement & growth of the students. These all the 8 courses enhanced the students became employability or entrepreneurship.

New course introduced:

SEMESTER – I					
Course Code	Course Title	L	T	P	C
THEORY					
23110AEC11/ 23111AEC11/ 23132AEC11/ 23135AEC11	Tami – I/Advanced English-I/Hindi-I/ French - I	3	1	0	3
23111AEC12	English-I	3	1	0	3
23115AEC13	Nutritional Biochemistry	4	1	0	3
23114GEC14	Chemistry –I	4	1	0	3
PRACTICAL					
23115SEC15L	Nutritional Biochemistry Lab	0	0	3	3
23114SEC16L	Chemistry Lab-I	0	0	3	3
Skill Enhancement Course					
23115SEC17	Medicinal Diet	2	0	0	2
23115SEC18	Foundation Course (FC)	2	0	0	2
Ability Enhancement Compulsory course					
231AECINC	Indian Constitution	2	0	0	2
AUDIT COURSE					
231LSCUV	Universal Human Values	-	-	-	1
Total		20	4	6	25
SEMESTER – II					
Course Code	Course Title	L	T	P	C
THEORY					
23110AEC21/ 23111AEC21/ 23132AEC21/ 23135AEC21	Tami – II/Advanced English-II/Hindi-II/ French - II	3	1	0	3
23111AEC22	English-II	3	1	0	3
23115AEC23	Cell Biology	4	1	0	3
23114GEC24	Chemistry –II	4	1	0	3
PRACTICAL					
23115SEC25L	Cell Biology Lab	0	0	3	3
23114SEC26L	Chemistry Lab-II	0	0	3	3
Skill Enhancement Course					
23115SEC27	Lifestyle Diseases	2	0	0	2

A. Lalitha
Head of the Department
Department of Biochemistry
School of Arts & Science
PRIST Deemed to be University
Thanjavur-613 403

3

S. Jeyaraj
DEAN
School of Arts & Science
Ponnaiyah Ramajayam Inst
Science & Technology (P
Deemed to be Univers
Valvom, Thanjavur - 613 403



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23115SEC28	First Aid	2	0	0	2
Ability Enhancement Compulsory course					
231AEC3CMS	Communication Skills	2	0	0	2
AUDIT COURSE					
231SSCBE	Basic Behavioural Etiquette	-	-	-	1
Total		20	4	6	25
SECOND YEAR					
SEMESTER – III					
23110AEC31/ 23132AEC31/ 23111AEC31/ 23135AEC31	Tamil – III/Hindi-III/Advanced English-III/ French – III	3	1	0	3
23111AEC32	English-III	3	1	0	3
23115AEC33	Biomolecules	4	1	0	3
23116GEC34	Microbiology-I	4	1	0	3
PRACTICAL					
23115SEC35L	Biomolecules Lab	0	0	3	3
23116SEC36L	Microbiology Lab-I	0	0	3	3
Skill Enhancement Course					
23115SEC37	Basics of Forensic science	2	0	0	1
23115SEC38	Medical Laboratory technology	2	0	0	2
Ability Enhancement Compulsory course					
23115RMC39	Research Methodology	2	0	0	2
AUDIT COURSE					
231ACLSOAN	Office Automation	-	-	-	1
Total		20	4	6	24
SEMESTER – IV					
23110AEC41/ 23111AEC41/ 23132AEC41/ 23135AEC41	Tamil-IV/Advanced English-IV /Hindi-IV/ French – IV	3	0	0	3
23111AEC42	English-IV	3	0	0	3
23115AEC43	Biochemical Techniques	4	1	0	3
23116GEC44	Microbiology II	4	1	0	3
PRACTICAL					
23115SEC45L	Biochemical Techniques Lab	0	0	3	3
23116SEC46L	Microbiology Lab-II	0	0	3	3
Skill Enhancement Course					
23115SEC47_	Or A. Biomedical Instrumentation B. Tissue Culture	2	0	0	2
23115SEC48_	Or A. Medical Coding B. Microbial techniques	2	0	0	2
Ability Enhancement Compulsory course					
23115BRC49	Participation in Bounded Research	2	0	0	2
231AECCEVS	Environmental Studies	2	0	0	2
AUDIT COURSE					
231LSCLS	Leadership and Management Skills	0	0	0	1
Total		22	2	6	27
SEMESTER – V					
23115AEC51	Enzymes	5	1	0	4
23115AEC52	Intermediary Metabolism	5	1	0	4

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[Signature]
Head of the Department
Department of Biotechnology
School of Arts & Science
PRIST Deemed to be University
Thanjavur-613 403

[Signature]
DEAN
School of Arts & Science
Ponnaiyah Ramajayam Institute
of Science & Technology (PRIST)
Deemed to be University
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23115AUC53	Clinical Biochemistry	5	1	0	4
23115DSC54	Discipline Specific Elective -I	4	0	0	3
Skill Enhancement Course					
23115SEC55L	Clinical Biochemistry Lab	0	0	3	3
23115SEC56L	Enzyme and Immunology Lab	0	0	3	3
23115SEC57	Internship/Industrial Visit/Field Visit	0	0	0	2
AUDIT COURSE					
231AACLSPSL	Professional Skills	-	-	-	1
231AECCVED	Value Education	2	0	0	2
Total		21	3	6	26
Third year					
SEMESTER - VI					
23115AUC61	Molecular Biology	5	0	0	4
23115AUC62	Human Physiology	5	0	0	4
23115DSC63	Discipline Specific Elective -II	5	0	0	3
23115PRW64	Project	0	0	13	4
23115SEC65	General awareness for competitive examination	2	0	0	2
231EXACT	Extension activity	-	-	-	1
AUDIT COURSE					
231ACSIKWS	Indian Knowledge System	-	-	-	2
Total		17	0	13	20
Total Credits -Programme					140
Total Credits - Audit Courses					07
Total Credits					147

Discipline Specific Electives	
Semester	Discipline Specific Elective Courses-I
V	a) 23115DSC54A – Immunology b) 23115DSC54B – Biochemical Pharmacology c) 23115DSC54C- Disaster Management
	Discipline Specific Elective Courses-II
VI	a) 23115DSC63A- Biotechnology b) 23115DSC63B – Bioinformatics c) 23115DSC63C- Bioentrepreneurship d) 23115DSC63D- Plant Biochemistry and plant Therapeutics

Resolution: The Board resolved to accept the same. New syllabus for B.Sc., Biochemistry approved. It will be effective from Academic year 2023-2024.

Agendum4: Discussion on the development of the M.Sc., Biochemistry New Curriculum under 2023.

A. Suby

D. Srinivasan

Head of the Department
 Department of Biochemistry
 School of Arts & Science
 PRIST Deemed to be University
 Thanjavur-613 403

DEAN
 School of Arts & Science
 Ponnaiyah Ramajayam Institute of
 Science & Technology (PRIST)
 Deemed to be University
 Vallam, Thanjavur - 613 403




Discussion: A draft curriculum for M.Sc., Biochemistry was proposed with modification to committee and the following points were discussed.


- ❖ The members of the Board proposed to Introduction of 16 new elective courses for PG which Was helpful for the enhancement & growth of the students.
- ❖ These all the courses enhanced the students, became an employability or entrepreneurship. New

courses introduced:

Course Code	Course Title	L	T	P	C
SEMESTER I					
23215AEC11	Basics of Biochemistry	5	1	0	4
23215AEC12	Biochemical and Molecular Biology Techniques	5	1	0	4
23215AEC13	Physiology and Cell Biology	5	1	0	4
23215SEC14L	Biomolecules and Biochemical Techniques Lab	0	0	4	4
23215DSC15	Discipline Specific Elective I	5	1	0	3
23215RMC16	Research Methodology	2	-	-	2
Total		22	4	4	21
SEMESTER II					
23215AEC21	Enzymology	4	1	0	4
23215AEC22	Cellular Metabolism	4	1	0	4
23215AEC23	Clinical Biochemistry	4	1	0	4
23215SEC24L	Enzymology , Microbiology and Cell Biology Lab	0	0	4	4
23215DSC25	Discipline Specific Elective II	4	1	0	3
23215SEC26	Nutritional Biochemistry	4	0	0	3
23215BRC27	Participation in bounded Research	2	0	0	2
23215SEC28	Internship-[Clinical Laboratory]	-	-	-	2
Total		22	4	4	26
SEMESTER III					
23215AEC31	Industrial Microbiology	5	1	0	4
23215AEC32	Molecular Biology	4	1	0	4
23215AEC33	Gene Editing, Cell and Gene therapy	4	1	0	4
23215SEC34L	Clinical Biochemistry Lab	0	0	4	4
23215DSC35	Discipline Specific Elective III	4	1	0	3
23215SEC36	Molecular basis of disease and therapeutic strategies	4	1	0	3
23215SEC37	Industrial Visit – Biotech	-	-	-	2
Total		21	5	4	24
SEMESTER IV					


Head of the Department
Department of Biochemistry
School of Arts & Science
PRIST Deemed to be University
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23215AEC41	Pharmaceutical Biochemistry	4	1	0	4
23215AEC42	Biochemical Toxicology	4	1	0	4
23215PRW43	Project and viva	0	0	10	4
23215DSC44	Discipline Specific Elective IV	4	1	0	3
23215DSC45	Discipline Specific Elective v	4	1	0	3
23215SEC46	Industrial Visit – Pharma or Food Processing	-	-	-	2
	Total	16	4	10	20
	Total Credits for the Programme				91


Discipline specific Electives

Semester	Discipline specific Elective Courses-I
I	a)20215DSC15A- Microbiology & Immunology b)20215DSC15B- Endocrinology
	Discipline specific Elective Courses-II
II	a)2015DSC25A-Energy and drug metabolism b)20215 DSC25B- Neuro Biochemistry
	Discipline specific Elective Courses-III
III	a)20215DSC34A- Biostatistics and Data Science b)20215DSC34B-Immunology
	Discipline specific Elective Courses-IV
IV	a) 20215DSC44A – Biosafety, Lab Safety and IPR b) 20215DSC44B – Plant Biochemistry
	Discipline specific Elective Courses-V
IV	a) 20215DSC45A -Developmental Biology b) 20215DSC45B -Cancer Biology



	Resolution: The Board resolved to accept the same. New syllabus for M.Sc., Biochemistry approved. It Will be effective from Academic year 2023-2024
5	Agendum 5: Discussion on Value added courses Discussion: Value added courses (Job Oriented Courses) were discussed, the department of biochemistry proposed five courses like Diploma course on Organic farming, Certificate course on Techniques in Biochemistry, Certificate course on Integumentary & Digestive System, Certificate course on Lympho haemopoietic System and Certificate course on Vermicompost. Resolution: The committee recommended and approved both the courses.
6	Agendum 6: Discussion on Activities for the advanced learners Discussion: Advanced learners should be encouraged to study for and write competitive exams. They should be sent to higher level institutions for internships so that they can continue their higher studies there. Resolution: The Board resolved to accept the same.
	Agendum 13: Discussion on Disaster Management


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Deemed to be University
Villam, Thanjavur - 612 40



7 **Agendum 14:** Any other matters

Discussion:

- The board of studies in Biochemistry recommends the panel of experts for examination purposes as per the guidelines of the institution.
- The board also suggested to take measures to improve the creative and innovative thinking ability of the post graduate students by assigning critical research problems in projects and practical's.
- The suggestions received from the parents, students Alumni and employer viz. practical oriented curriculum and skill enhancement internship trainings were discussed.
- The board also suggested enlisting minimal skill sets required to pass the degree programme.

Resolution: The board resolved to consider the above mentioned recommendations.

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Department of Biochemistry
School of Arts & Science
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The members had a brainstorming discussion and interaction among themselves. Ager discussion, fruitful suggestions were incorporated appropriately in the curriculum and syllabus of 2023.

Based on the suggestion given by the members, BOS resolved to recommend the syllabus for B.Sc., Biochemistry and M.Sc., Biochemistry under Regulation 2023 to the Academic Council for further approval.

Dr.S.Ambiga, Biochemistry thanked all the members for their kind cooperation and the meeting came to an end.

Date: 26.06.2023

Dr. A. Bakrudeen Ali Ahmed
BOSChairman/HOD Seal

Head of the Department
Department of Biochemistry
School of Arts & Sci
PRIST Deemed to be U
Thanjavur-613 002



ATTENDANCE OF THE BOARD OF STUDIES MEETING

Board: Biochemistry

Date: 26.06.2023

Time: 02.30Pm

Venue: Department of Biochemistry

The following members were present for the Board of Studies meeting

S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Online/ Physical	Signature (scan,ifonline)
1.	Dr.A.BAKRUDEENALI AHMED - HOD	<u>Chairman</u> Department of Biochemistry Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University, Thanjavur	physical	
2.	Dr. B.SYEDIBRAHIM ASSOCIATE PROFESSOR,	<u>AcademicExpert</u> ASSOCIATE PROFESSOR, SCHOOL OF LIFE SCIENCE,PONDICHERRY UNIVERSITY, PONDICHERRY 919080739522 ibrahim.bic@pondiuni.edu.in	Online	 Dr. B. SYED IBRAHIM ASSOCIATE PROFESSOR Department of Bioinformatics School of Life Sciences Pondicherry University Puducherry - 605014
3.	Dr.R.SUKIRTHA RESEARCH DIRECTOR	<u>IndustrialExpert</u> RESEARCH DIRECTOR, ASWANTHDIAGNOSTICS AND RESEARCHCENTRE, NO 7, RAILAR NAGAR, MADURAI, 9047044901 adrc1820@gmail.com	Online	
4.	Dr. R.ARUNKUMAR Scientist	Scientist, Department of Biotechnology, Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), DeemedtobeUniversity, Thanjavur	Physical	
5.	Dr.S.AMBIGA-	Associate Professor, Department of Biochemistry	Physical	



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		Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University, Thanjavur		
6.	Dr. SASIKUMAR PONNUSAMY Associate Professor	Associate Professor, Department of Biochemistry Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University, Thanjavur	Physical	
7.	Dr. N. GNANASEKARAN Associate Professor	Associate Professor, Department of Biochemistry Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University, Thanjavur	Physical	
8.	Dr. S. SATHISHKUMAR Assistant Professor	Assistant Professor, Department of Biochemistry Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University, Thanjavur	Physical	 26/04/23
9.	Dr. A. SUNDARESAN Assistant Professor	Assistant Professor, Department of Biochemistry Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University, Thanjavur	Physical	
10.	Ms. T. KIRIJA	Alumna Medical Coder, Cognizant, Chennai Tamilnadu	Online	
11.	Ms. B. PAVITHRA Biochemistry Student	Student Representative I M.Sc., Biochemistry	Physical	
12.	Ms. M. ANBUMATHI	Student Representative Ph.D Scholar, Biochemistry	Physical	
13.	Dr. K. ARIVUKKANI HOD	Co-opted member HOD, Department of Tamil, Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University,	Physical	



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		Thanjavur		
14.	Prof. S. RASAKUMAR Assistant Professor	Co-opted member Assistant Professor, Department of English, Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University, Thanjavur	Physical	
15.	Dr. D. CHINNARAJA Assistant Professor	Co-opted member , Assistant Professor, Department of Chemistry, Ponnaiyah Ramajayam Institute of Science & Technology (PRIST), Deemed to be University, Thanjavur	Physical	

Date: 26.06.2023

BOS Chairman/HOD

Online meeting link: <https://meet.google.com/rub-iufz-omx>

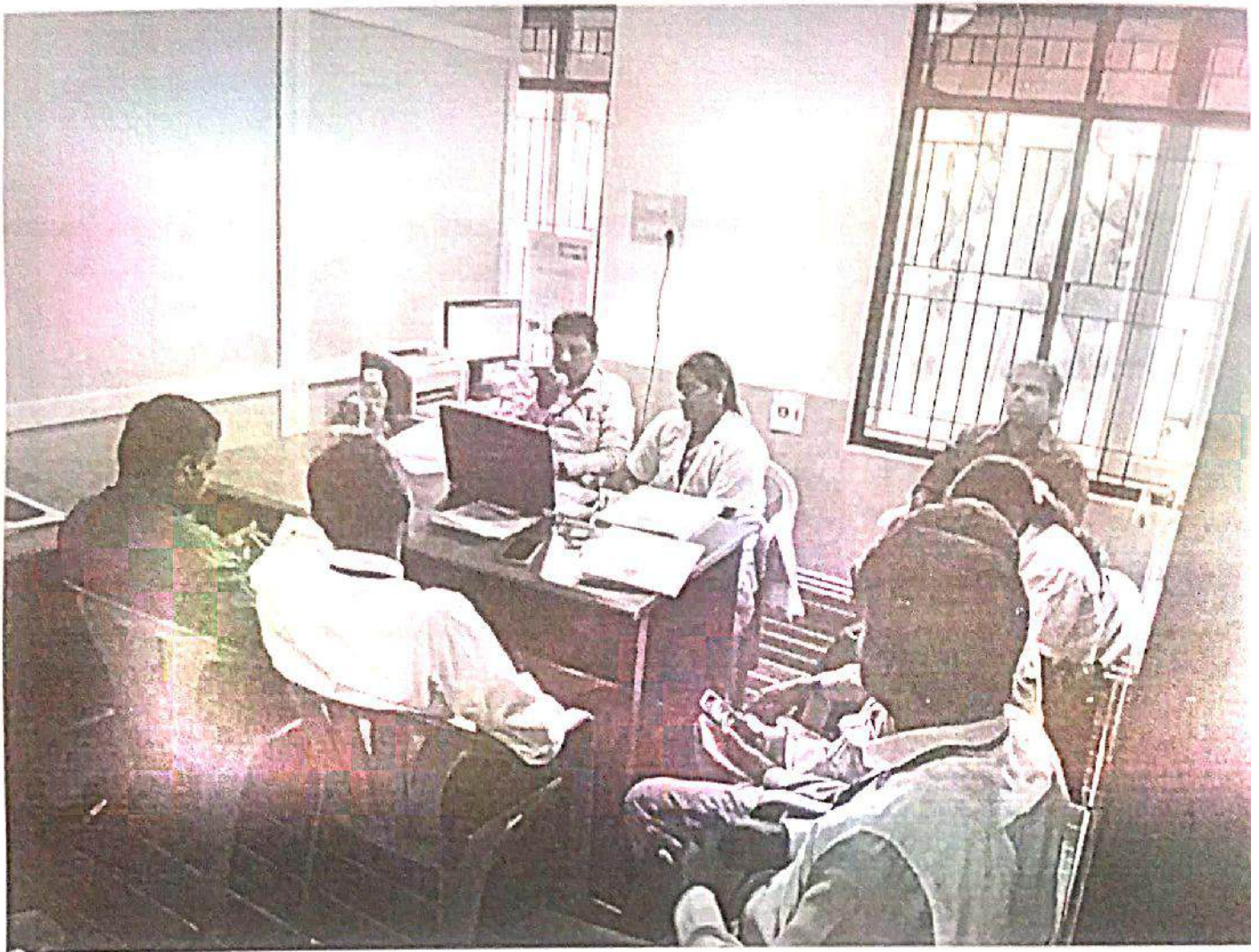
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Department of Biochemistry
School of Arts & Science
PRIST Deemed to be Univ.
Thanjavur-613 403

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A. S. S. S.

Head of the Department
Department of Biochemistry
School of Arts & Science
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A. S. S. S.

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Ponnaiyah Ramajayam Institute of
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Deemed to be University
Vellam, Thanjavur - 613 403



16.05.2024

MINUTES OF THE BOARD OF STUDIES MEETING

Board: COMPUTER SCIENCE AND ENGINEERING

The Chairman of BOS welcomed all the panel members for the meeting. The item listed in the agenda was taken for discussion.

The following are the minutes of the meeting

Agendum 1: Confirmation of the previous Meeting Minutes

Discussion: The Previous Meeting Minutes are discussed among all the members and the highlighted points that we are discussed are read out in front of all members. The action taken where informed to the members.

Resolution: The Board approved the same.

Agendum 2: Action taken on the previous Meeting Minutes

Discussion: The feedback from various stake holders such as Employers, Alumni, Academicians, Industrial Personnel, Students, etc are also discussed.

SNO	FEEDBACK	STAKEHOLDER	ACTION TAKEN
1	New course needed	Alumni	Offered few Courses
2	Need new method of teaching	Students	In ICT class PPT, videos a was instructed to use.
3	Industry oriented subjects with Practical session	Industry Expert	Introduce a new subject
4	Focus on Add on course	Academic	Introduce VAC

Resolution: The Board approved the same .

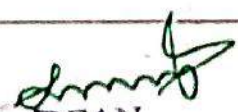
Agendum 3: We Introduce two new programmes such as

1. B.Tech- Artificial Intelligence And Machine Learning
2. B.Tech - Cyber Security

Discussion : The Board discuss the papers offered in the programme and its effectiveness, flexibility.

Resolution: The Board approved the same .


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Agendum 4: Introducing new papers for the Elective papers

Discussion: We introduce 8 new papers for PG M.Tech Full Time and nine new papers form.M.Tech Part Time and seven new papers for B.Tech Part time which was helpful for enhance and growth of the students.

Resolution: The board Resolved to accept the same.

M.Tech- CSE(FULL TIME)

Semester – I - Elective – I

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
I	22250E16A	Multimedia Systems and Applications	3	0	0	3
I	22250E16C	Software Security	3	0	0	3

SEMESTER – II - Elective – II

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
II	22250E24A	Cyber Security	3	0	0	3
II	22250E24B	Blockchain Technologies	3	0	0	3

SEMESTER – II - Elective – III

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
II	22250E25B	Mobile Application Development	3	0	0	3



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SEMESTER – III - Elective – IV

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250E32C	Foundations of Data Science	3	0	0	3

SEMESTER – III - Elective – V

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250E33C	User Interface Design	3	0	0	3

SEMESTER – III - Elective – VI

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250E34C	Full Stack Web Application Development	3	0	0	3

K. J. L.

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M.Tech- CSE(PART TIME)

SEMESTER – II - Elective – I

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
II	22250E23AP	Cyber Security	3	0	0	3
II	22250E23BP	Blockchain Technologies	3	0	0	3

SEMESTER – III - Elective – II

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250E33AP	Multimedia Systems and Applications	3	0	0	3
III	22250E33CP	Software Security	3	0	0	3

SEMESTER – IV - Elective – III

Semesterno	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
IV	22250E43AP	Multimedia Core Architecture	3	0	0	3
IV	22250E25BP	Mobile Application Development	3	0	0	3



SEMESTER – V- Elective – IV

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
V	22250E51CP	Foundations of Data Science	3	0	0	3

SEMESTER – V - Elective – V

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
V	22250E52CP	User Interface Design	3	0	0	3

SEMESTER – V - Elective – VI

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
V	22250E53CP	Full Stack Web Application Development	3	0	0	3



B.TECH- CSE (PART TIME)

SEMESTER - IV (ELECTIVE I)

Semester no	SubjectCode	Subject Title	Periods per Week			C
			L	T	P	
IV	22150E44AP	Neural Networks and Deep Learning	3	1	0	4
IV	22150E44DP	Big Data Analytics	3	1	0	4

SEMESTER - V (ELECTIVE II)

Semesterno	SubjectCode	Subject Title	Periods per Week			C
			L	T	P	
V	22150E54BP	Web Technology	3	1	0	4
V	22150E54CP	Software Testing and Automation	3	1	0	4
V	22150E54DP	Principles of Programming Languages	3	1	0	4

SEMESTER VI (ELECTIVE III)

Semesterno	SubjectCode	Subject Title	Periods per Week			C
			L	T	P	
V	22150E64BP	Cloud Computing	4	0	0	4
V	22150E64DP	Network Security	4	0	0	4



Agendum 5: Discussion on Value Added Certificate Courses.

SNO	COUSER CODE	COUSE
1.	205150RA	Robotics and Automation.
2	205150BC	Block chain.
3	1950DM	Digital Marketing.
4	205150EH	Ethical Hacking.
5	1950DS	Data Science.

Resolution: The Board approved the above offering of value added certificate courses.

Agendum 6: Discussion on Coaching for Competitive Exams & Higher Education.

Discussion: The board member discussed and recommended the GATE, TNPSC, SSC, TRB, RAILWAY, Banking etc.

Resolution: The board approved the same.

Agendum 7: Discussion on NPTEL Courses.

Discussion: Students should be motivated to enroll for MOOCS courses, especially NPTEL courses and made aware of transfer of credits instead of courses in the curriculum.

Resolution: The board approved the same.

Agendum 8: Discussion on Internship.

Discussion: The external experts insisted on the compulsory internship for students along with credits.

Resolution: The board approved the same.

Agendum 9 : Any other matter

Discussion: The board member discussed how to improve the overall performance.

Resolution: The board approved the same.

The chairman of Board of Studies (BOS) thanked all the members for their active participation and cordially invited them for the next meeting

Date: 16.05.2024

Signature

Head of the Department
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ATTENDANCE OF THE THIRTEENTH BOARD OF STUDIES MEETING

Board: COMPUTER SCIENCE AND ENGINEERING

Date: 16.05.2024

Time: 4.00 PM

Venue: A- BLOCK GALLERY HALL

The following members were present for the Board of Studies meeting

S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Online/ Physical	Signature (scan, if online)
1.	Dr.S.Nithyanandham, Chairman	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
2.	Mr.V.Prasanna Venkatesh, External Member	Senior Data Analyst,STAPLES Inc.,Framingham,USA.	Online	
3.	Dr.S.A.Sahaaya Arul Mary, External Member	Professor Grade 1, Vellore Institute of Technology, Vellore- 632014	Online	
4.	Mrs.K.Jayanthi, Associate Professor	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
5.	Mrs.K.Suganthi, Associate Professor	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
6.	Mrs.M.Jeeva, Assistant Professor	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
7.	Ms.M.Mohana Priya, Assistant Professor	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
8.	Mrs.M.Vaishnavi, Assistant Professor	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
9.	Mrs.T.K.Chitra, Assistant Professor	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	



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10.	Mrs.P.Menaka, Assistant Professor	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
11.	G.Prathipa, B.Tech, Alumni	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Online	
12.	Ms.S.Subiksha, Student Representatives	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
13.	Mr.V.Sivakumaran , Student Representatives	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	
14.	Ms.J.Niranjana, Co-opted member (Language - English)	Ponnaiyah Ramajayam Institute of Science and Technology, Vallam, Thanjavur -613403	Physical	

Date: 16-05-24

Head of the Department
Department of Computer Science
and Engineering
Ponnaiyah Ramajayam Institute of
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and Engineering
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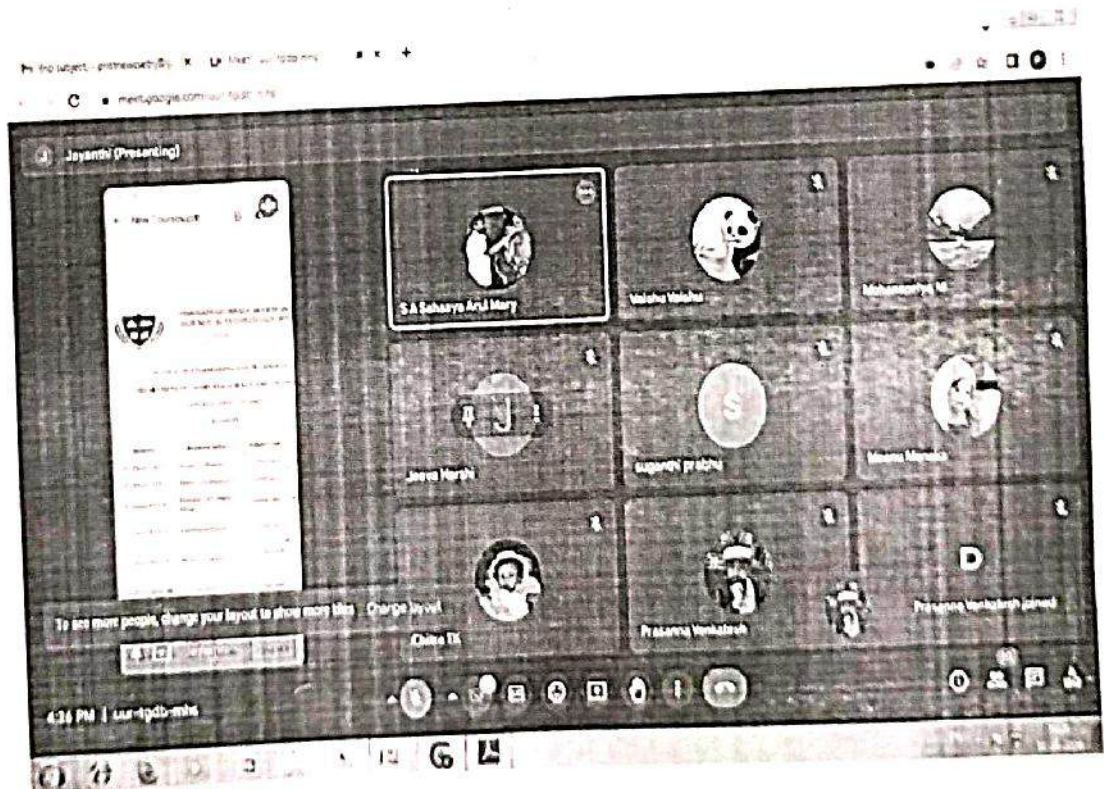
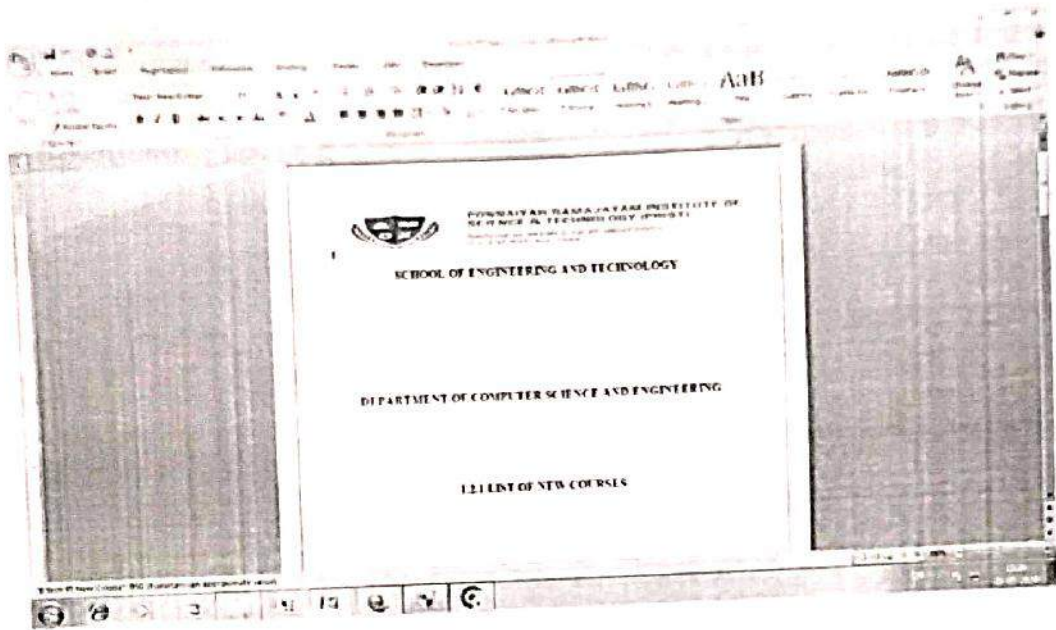
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**DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING**

PROGRAM HANDBOOK

**M.Tech
COMPUTER SCIENCE AND ENGINEERING
[FULL TIME]**

[REGULATION 2022] – R1

**Head of the Department
Department of Computer Science
and Engineering
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THANJAVUR - 613 403, Tamil Nadu**

**DEAN
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**DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING**

PROGRAM HANDBOOK


M.Tech
COMPUTER SCIENCE AND ENGINEERING
[FULL TIME]

[REGULATION 2022] – R1


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THANJAVUR - 613 403, Tamil Nadu

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Valangudi, Thanjavur - 613 403.

COURSE STRUCTURE


Head of the Department
Department of Computer Science
and Engineering

Ponnaiyan Ramajayam Institute of
Science & Technology (P.R.I.T.)
(Institution Deemed to be University)
U/s 3 of the UGC Act, 1956
THANJAVUR - 613 403, TAMIL NADU


DEAN
School of Engineering and Technology
Ponnaiyan Ramajayam Institute of Science and Technology (P.R.I.T.)
(Institution Deemed to be University)
Vallam, Thanjavur - 613 403

SEMESTER - I

Semester. no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
I	22248S11A	Higher Mathematics	4	1	0	4
I	22250H12	Modern Operating System	4	0	0	4
I	22250H13	Machine Learning Techniques	4	0	0	4
I	22250H14	Adhoc and Sensor Network	4	0	0	4
I	22250H15	Advanced Data Structures and Algorithms	4	1	0	4
I	22250E16_	Elective - I	3	0	0	3
Practical						
I	22250L17	Advanced Web Technologies Lab	-	-	3	3
Total no of Credit						26

SEMESTER - II

Semester. no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
II	22250H21	Middleware Technologies	3	1	0	4
II	22250H22	Object Oriented Software Engineering	4	0	0	4
II	22250H23	Internet of Things	4	0	0	4
II	22250E24_	Elective II	3	0	0	3
II	22250E25_	Elective - III	3	0	0	3
Practical						
II	22250L26	.NET Technologies Lab	-	-	3	3
II	222TECWR	Technical Writing /Seminars	-	-	3	3
Total no of Credit						24



Head of the Department
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and Engineering
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School of Engineering and Tech.
Pennalyah Ramajayam Institute of
Science and Technology (PRI)
Deemed to be University
Vellayuthi, Thanjavur - 613 403.

SEMESTER – III

Semester.no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250H31	Software Project Management	4	0	0	4
III	22250E32_	Elective-IV	3	0	0	3
III	22250E33_	Elective-V	3	0	0	3
III	22250E34_	Elective-VI	3	0	0	3
III	22250P35	Project Work- Phase I*	-	-	10	10
Total no of Credit						23

SEMESTER – IV

Semester no.	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
IV	22250P41	Project Work- Phase II*	-	-	15	15
Total no of Credit						15

* - Only review will be conducted

K. J. L.

Head of the Department
Department of Computer Science
and Engineering
Pennaiyeh Ramajayam Institute of
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Vallam, Marudurai

List of Electives Semester – I - Elective – I


Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
I	22250E16A	Multimedia Systems and Applications	3	0	0	3
I	22250E16B	Web Engineering	3	0	0	3
I	22250E16C	Software Security	3	0	0	3

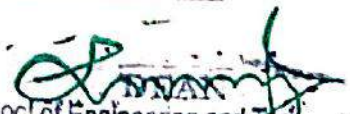
SEMESTER – II - Elective – II

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
II	22250E24A	Cyber Security	3	0	0	3
II	22250E24B	Blockchain Technologies	3	0	0	3
II	22250E24C	Information Retrieval Techniques	3	0	0	3

SEMESTER – II - Elective – III

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
II	22250E25A	Web Content Design and Management	3	0	0	3
II	22250E25B	Mobile Application Development	3	0	0	3
II	22250E25C	Language Technologies	3	0	0	3


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SEMESTER – III - Elective – IV

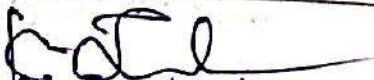
Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250E32A	Cloud Computing	3	0	0	3
III	22250E32B	Speech Processing and Synthesis	3	0	0	3
III	22250E32C	Foundations of Data Science	3	0	0	3

SEMESTER – III - Elective – V

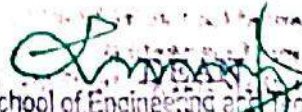
Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250E33A	Advanced Database Technology	3	0	0	3
III	22250E33B	Reconfigurable Computing	3	0	0	3
III	22250E33C	User Interface Design	3	0	0	3

SEMESTER – III - Elective – VI

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250E34A	Software Quality Assurance	3	0	0	3
III	22250E34B	Bio-inspired Computing	3	0	0	3
III	22250E34C	Full Stack Web Application Development	3	0	0	3


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**DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING**

PROGRAM HANDBOOK

**M.Tech
COMPUTER SCIENCE AND ENGINEERING
[PART TIME]**

[REGULATION 2022]- R1.

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COURSE STRUCTURE



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Tamil Nadu

SEMESTER - I


Semester. no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
I	22248S11AP	Higher Mathematics	4	1	0	4
I	22250H12P	Adhoc & Sensor Networks	4	0	0	4
I	22250H13P	Advanced Data Structures	4	0	0	4
Practical						
I	22250L14P	Advanced Web Technologies Lab	-	-	3	3
Total no of Credits						15


SEMESTER - II

Semester. no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
II	22250H21P	Middleware Technologies	3	1	0	4
II	22250H22P	Internet of Things	4	0	0	4
II	22250E23_P	Elective I	3	0	0	3
Practical						
II	22250L24P	.NET Technologies Lab	-	-	3	3
II	222TECWRP	Technical Writing /Seminars	-	-	3	3
Total no of Credits						17

SEMESTER - III

Semester.no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250H31P	Modern Operating System	4	0	0	4
III	22250E32P	Machine Learning Techniques	4	0	0	4
III	22250E33_P	Elective-II	3	0	0	3
Total no of Credits						11


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SEMESTER - IV

Semester no.	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
IV	22250H41P	Object Oriented Software Engineering	4	0	0	4
IV	22250H42P	Software Project Management	4	0	0	4
IV	22250E43_P	Elective-III	3	0	0	3
IV	22250P44P	Project Work- Phase I	-	-	6	10
Total no of Credits						21

SEMESTER - V


Semester no.	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
V	22250E51_P	Elective-IV	3	0	0	3
V	22250E52_P	Elective-V	3	0	0	3
V	22250E53_P	Elective-VI	3	0	0	3
Total no of Credits						9

SEMESTER - VI

Semester no.	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
VI	22250P61P	Project Work- Phase II	0	0	15	15
Total no of Credits						15



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TAMIL NADU

LIST OF ELECTIVES

SEMESTER - II ELECTIVE - I

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
II	22250E23AP	Cyber Security	3	0	0	3
II	22250E23BP	Block chain Technologies	3	0	0	3
II	22250E23CP	Information Retrieval Techniques	3	0	0	3


SEMESTER - III ELECTIVE - II

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
III	22250E33AP	Multimedia Systems and Applications	3	0	0	3
III	22250E33BP	Web Engineering	3	0	0	3
III	22250E33CP	Software Security	3	0	0	3

SEMESTER - IV - ELECTIVE - III

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
IV	22250E43AP	Multicore Architectures	3	0	0	3
IV	22250E43BP	Mobile Application Development	3	0	0	3
IV	22250E43CP	Language Technologies	3	0	0	3


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SEMESTER - V - ELECTIVE - IV

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
V	22250E51AP	Cloud Computing	3	0	0	3
V	22250E51BP	Speech Processing and Synthesis	3	0	0	3
V	22250E51CP	Foundations of Data Science	3	0	0	3


SEMESTER - V - ELECTIVE - V

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
V	22250E52AP	Advanced Database Technology	3	0	0	3
V	22250E52BP	Reconfigurable Computing	3	0	0	3
V	22250E52CP	User Interface Design	3	0	0	3

SEMESTER - V - ELECTIVE - VI

Semester no	Subject Code	Subject Title	Periods per Week			C
			L	T	P	
V	22250E53AP	Software Quality Assurance	3	0	0	3
V	22250E53BP	Bio-inspired Computing	3	0	0	3
V	22250E53CP	Full Stack Web Application Development	3	0	0	3


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DEPARTMENT OF
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PROGRAM HANDBOOK

B.TECH -COMPUTER SCIENCE & ENGINEERING
(PART-TIME)
[REGULATION 2022] – R1

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**DEPARTMENT OF
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PROGRAM HANDBOOK

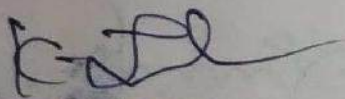
**B.TECH -COMPUTER SCIENCE & ENGINEERING
(PART-TIME)
[REGULATION 2022] – R1**

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COURSE STRUCTURE



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SEMESTER I

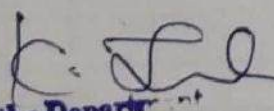
Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22148S11P	Transforms and Partial Differential Equations	3	1	0	4
22152S12P	Digital Systems	3	1	0	4
22150H13P	Data Structures and algorithms	3	1	0	4
22150H14P	Computer Architecture and Organization	3	1	0	4
22150H15P	Problem Solving And Python Programming	3	0	0	3
Total No. of credits					19

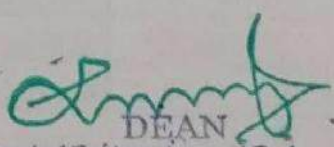
SEMESTER II

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22148S21P	Numerical Methods	3	1	0	4
22150H22P	Microprocessors and Interfacing	3	1	0	4
22150H23P	Database Management Systems	3	1	0	4
22150H24P	Design and Analysis Of Algorithm	3	1	0	4
22150H25P	Programming in C	3	0	0	3
Total No. of credits					19

SEMESTER III

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22148S31P	Discrete Mathematics	3	1	0	4
22150H32P	Operating System	4	0	0	4
22150H33P	Artificial Intelligence	4	0	0	4
22150H34P	Computer Networks	4	0	0	4
22150L35P	Operating Systems and Networking Lab	0	0	3	2
Total No. of credits					18


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SEMESTER IV

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22150H41P	Software Engineering Fundamentals	3	1	0	4
22150H42P	Internet Programming	3	1	0	4
22150H43P	C# And .Net Framework	3	1	0	4
221_E44_P	Elective-I	3	1	0	4
22150L45P	Internet Programming Lab	0	0	3	2
Total No. of credits					18

SEMESTER - V

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22150H51P	Object Oriented Analysis and Design	4	0	0	4
22150H52P	Software Quality Management	3	1	0	4
22150H53P	Graphics and Multimedia	3	1	0	4
221_E54_P	Elective -II	3	1	0	4
22150L55P	Software Development Lab	0	0	3	2
Total No. of credits					18

SEMESTER - VI

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22150H61P	Cryptography and Network Security	4	0	0	4
22150H62P	Advanced Java programming	3	1	0	4
22150H63P	Software Testing	4	0	0	4
221_E64_P	Elective III	4	0	0	4
22150L65P	Java Programming Lab	0	0	3	2
Total No. of credits					18

SEMESTER - VII

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22160S71P	Total Quality Management	3	0	0	3
22150H72P	Grid and Cloud Computing	4	0	0	4
22150H73P	Middleware Technologies	3	1	0	4
221_E74_P	Elective IV	3	0	0	3
22150P75P	Project	0	0	12	6
Total No. of credits					20

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**LIST OF ELECTIVES
SEMESTER - IV (ELECTIVE I)**

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22150E44AP	Neural Networks and Deep Learning	3	1	0	4
22150E44BP	Data Warehousing and Data Mining	3	1	0	4
22150E44CP	Professional Ethics in Engineering	3	1	0	4
22150E44DP	Big Data Analytics	3	1	0	4

SEMESTER - V (ELECTIVE II)


Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22150E54AP	Ad hoc and Sensor Networks	3	1	0	4
22150E54BP	Web Technology	3	1	0	4
22150E54CP	Software Testing and Automation	3	1	0	4
22150E54DP	Principles of Programming Languages	3	1	0	4

SEMESTER - VI (ELECTIVE III)

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22160E64AP	Principles of Management	4	0	0	4
22150E64BP	Cloud Computing	4	0	0	4
22150E64CP	Graph Theory And Applications	4	0	0	4
22150E64DP	Network Security	4	0	0	4

SEMESTER - VII (ELECTIVE VI)

Subject Code	Subject Name	Periods Per Week			C
		L	T	P	
22150E74AP	Cyber Security	3	0	0	3
22150E74BP	Information Retrieval Techniques	3	0	0	3
22150E74CP	Ethics and AI	3	0	0	3
22150E74DP	Cyber Forensics	3	0	0	3


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MINUTES OF THE BOARD OF STUDIES MEETING

Board: ECE

The Chairman of BoS welcomed all the panel members for the meeting. The items listed in the agenda were taken for discussion.

The following are the minutes of the meeting

Agendum 1: Confirmation of the previous Meeting Minutes and Action taken on the previous Meeting Minutes.

Discussion: To confirm the previous BoS Meeting Minutes and to discuss the action taken on the previous BoS Meeting Minutes.

Resolution: The chairman confirmed the previous meeting minutes of BoS and discussed the action taken on the previous BoS Meeting Minutes.

Agendum 2: Scrutiny of stakeholders' feedback on existing curriculum and syllabi.

Discussion: To scrutinize the abstract of stakeholders feedback on existing curriculum and syllabi for B.Tech.-ECE (Full Time/Part Time) and M.Tech.-Communication Systems (Full Time/Part Time).

Resolution: The members of the Board thoroughly scrutinized the existing curriculum and syllabi and the abstract of stakeholders feedback on B.Tech. -ECE (Full Time/Part Time) and M.Tech.-Communication Systems (Full Time/Part Time) and resolved to continue with the existing syllabus.

Agendum 3: Introduction of newly added Value added courses

1. Certificate Course On Embedded -Raspberry Pi-Broucher
2. Certificate Course On Network Design
3. Certificate Course On Introduction To Microcontroller
4. Certificate Course On Introduction To R Programming
5. Certificate Course On Introduction To Labview

Resolution: The members of the Board scrutinized the syllabus contents of newly added Audit courses and resolved to introduce the same.

Agendum 5: Discuss the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) of BTech (FT/PT) and MTech Communication Systems (FT/PT).

Discussion: To discuss upon the Programme Educational Objectives (PEOs), Programme

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Discussion: To discuss upon the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) of BTech (FT/PT) and MTech Communication Systems (FT/PT).

Resolution: The members of the Board scrutinized the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) and resolved to continue with the same for BTech (FT/PT) and MTech Communication Systems (FT/PT).

Agendum 6: The board member has suggested adding electives in R-2021, R-2022

Discussion: The member of the board scrutinized the syllabus content of newly added elective courses and resolved to introduce same.

Resolution: The new courses are

S.NO	COURSE CODE	COURSE NAME
1.	21152E54D	Wireless Broad Band Network
2.	21152E64D	RF ID System Design & testing
3.	21160S72D	Medical Imaging Systems
4.	22152E54FP	Therapeutic Equipment
5.	22152E74FP	Brain Computer Interface And Application
6.	22271E33D	Rocketry And Space Mechanics
7.	22271E34D	Positioning And Navigation Systems
8.	22271E51DP	Validation And Testing Technology
9.	22271E52DP	Ocean Acoustics

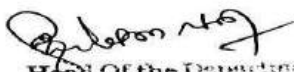
Agendum 7: Recommend the panel of Examiners for B.Tech(FT/PT) and for M.Tech-Communication Systems(FT/PT)

Discussion: To recommend the panel of Examiners for B.Tech(FT/PT) and for M.Tech-Communication Systems(FT/PT).

Resolution: The members of the board also scrutinized the panel of examiners and recommended to continue with the same panel of examiners for the B.TECH –ECE (FT/PT) & M.TECH – Communication Systems (FT/PT).

The chairman of Board of Studies (BOS) thanked all the members for their active participation and cordially invited them for the next meeting

Date: 16/6/23


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Signature
(BOS Chairman Name)

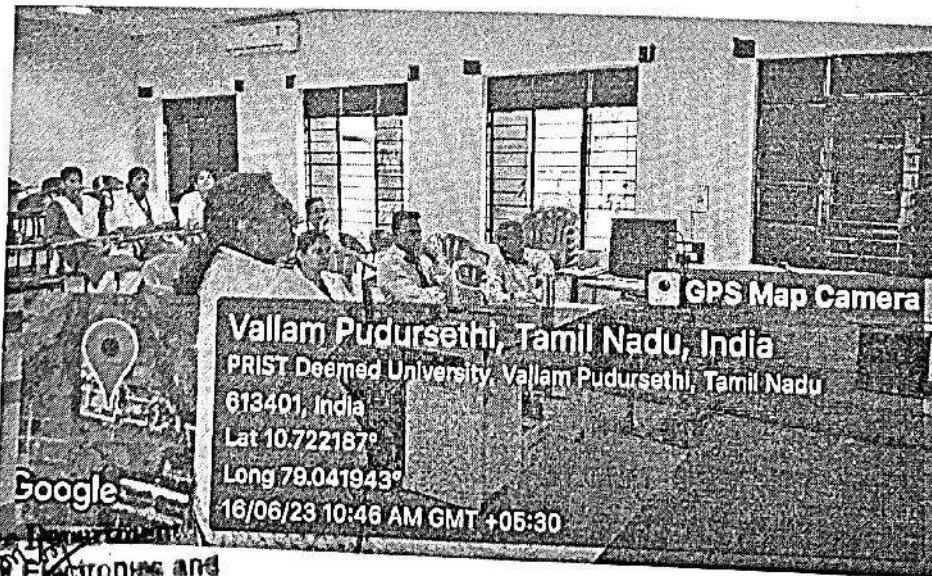
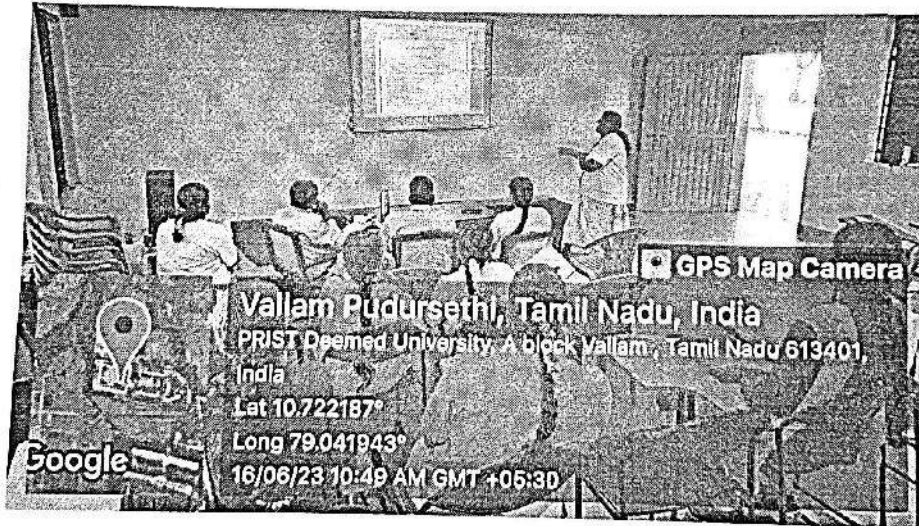

BOS Chairman/HOD Seal


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The following members were present:

S.No.	Name of the Member	Designation	Signature
1.	Dr. S. Devi	Professor	
2.	Dr. Smitha Elsa Peter	Professor	
3.	Dr. N. Parvatham	Associate Professor	
4.	Dr. C.Rajinikanth	Associate Professor	
5.	S.Lillypet	Associate Professor	
6.	P.Geetha	Assistant Professor	
7.	A.Amudha	Assistant Professor	
8.	S. Maheswaran	Assistant Professor	
9.	A. Aarthi	Assistant Professor	
10.	T Divya Manohari	Assistant Professor	
11.	E. Priyadharshini	Assistant Professor	
12.	R. Savitha	Assistant Professor	
13.	S.Saraswathy	Assistant Professor	
14.	R.Saraswathi	Assistant Professor	
15.	D.Harikrishnan	Assistant Professor	
16.	M.Soundharya	Assistant Professor	

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B.TECH (FULL TIME) – ECE – R-2021

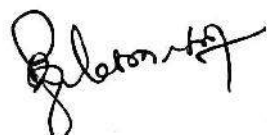
I - VIII SEMESTERS CURRICULUM

SEMESTER I

Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	21147IP	Induction Programme	-	-	-	0
2.	21147S11	Professional English - I	3	0	0	3
3.	21148S12	Matrices and Calculus	3	1	0	4
4.	21149S13	Engineering Physics	3	0	0	3
5.	21149S14	Engineering Chemistry	3	0	0	3
6.	21150S15	Problem Solving and Python Programming	3	0	0	3
PRACTICALS						
7.	21150L16	Problem Solving and Python Programming Laboratory	0	0	4	2
8.	21149L17	Physics and Chemistry Laboratory	0	0	4	2
9.	21147L18	Communication Lab – I	0	0	2	1
TOTAL			15	1	10	21

SEMESTER II

Sl. No.	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	21147S21	Professional English – II (COMMON TO CIVIL, CSE, EEE,ECE,MECH)	3	0	0	3
2.	21148S22	Statistics and Numerical Methods (COMMON TO CIVIL, CSE, EEE, ECE, MECH)	3	1	0	4
3.	21149S23B	Physics for Electronics Engineering	3	0	0	3
4.	21154S24	Engineering Graphics(COMMON TO CIVIL, CSE, EEE,ECE,MECH)	2	0	4	4
5.	21153S25B	Electrical and Instrumentation Engineering	3	0	0	3
6.	21153S26A	Circuit Analysis	3	1	0	4
PRACTICALS						
7.	21154L27	Engineering Practices Laboratory(COMMON TO ALL)	0	0	4	2
8.	21153L28A	Circuits Analysis Laboratory	0	0	4	2
9.	21147L29	Communication Lab – II	0	0	4	2
TOTAL			17	2	16	27



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4.	CSE	21150OE73	Dev-Ops	3	0	0	3
5.	ECE **	21152OE73	Robotics Process Automation	3	0	0	3

** Applicable for other Departments

OPEN ELECTIVE – III (SEMESTER VII)

Sl. No	DEPT	COURSE CODE	COURSE TITLE	L	T	P	C
1.	Eng	21147OE74	English for Competitive Examinations	3	0	0	3
2.	Civil	21155OE74A	Remote Sensing Concepts	3	0	0	3
3.	Civil	21155OE74B	Drinking Water Supply and Treatment	3	0	0	3
4.	EEE	21153OE74A	Renewable Energy Technologies	3	0	0	3
5.	EEE	21153OE74B	Electric and Hybrid Vehicle	3	0	0	3
6.	Mech	21154OE74A	Industrial Management	3	0	0	3
7.	Mech	21154OE74B	Introduction to NonDestructive Testing	3	0	0	3
8.	ECE **	21152OE74A	Biomedical Instrumentation	3	0	0	3
9.	ECE **	21152OE74B	Fundamentals of Electronic Devices and Circuits	3	0	0	3

** Applicable for other Departments

OPEN ELECTIVE – IV (SEMESTER VII)

Sl. No	DEPT	COURSE CODE	COURSE TITLE	L	T	P	C
1.	Civil	21155OE75A	Geographical Information System	3	0	0	3
2.	Civil	21155OE75B	Basics of Integrated Water Resources Management	3	0	0	3
3.	EEE	21153OE75A	Sensors	3	0	0	3
4.	EEE	21153OE75B	Electrical, Electronic and Magnetic materials	3	0	0	3

P. Subramanian
 Head of the Department
 Department of Electronics and
 Communication Engineering
 Ponnaiyah Ramajayam Institute of
 Science and Technology (PRIST)
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 of Applied Sciences, Tamil Nadu)

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5.	Mech	21154OE75A	Additive Manufacturing	3	0	0	3
6.	Mech	21154OE75B	Industrial Safety	3	0	0	3
7.	ECE **	21152OE75A	Wearable Devices	3	0	0	3
8.	ECE **	21152OE75B	Medical Informatics	3	0	0	3

** Applicable for other Departments

LIST OF MANDATORY COURSES

MANDATORY COURSE – I (SEMESTER V)

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21147MC51A	Introduction to Women and Gender Studies	3	0	0	3
2.	21147MC51B	Disaster Management	3	0	0	3
3.	21147MC51C	Film Appreciation	3	0	0	3
4.	21147MC51D	Elements of Literature	3	0	0	3

MANDATORY COURSE – II (SEMESTER VI)

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21147MC61A	Well Being with Traditional Practices (Yoga, Ayurveda and Siddha)	3	0	0	3
2.	21147MC61B	History of Science and Technology in India	3	0	0	3
3.	21147MC61C	Political and Economic Thought for a Humane Society	3	0	0	3
4.	21147MC61D	State, Nation Building and Politics in India	3	0	0	3
5.	21147MC61E	Safety in Engineering industry	3	0	0	3

R. Subramanyam
 Head Of the Department
 Department Of Electronics and
 Communication Engineering
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SEMESTER III

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	21148S31B	Random Processes and Linear Algebra	3	1	0	4
2.	21152S32	Control Systems	3	0	0	3
3.	21152S33	C Programming and Data Structures	3	0	0	3
4.	21152C34	*Digital Systems Design*	3	0	2	4
5.	21152C35	Signals and Systems	3	1	0	4
6.	21152C36	Electronic Devices and Circuits	3	0	0	3
PRACTICALS						
7.	21152L37	C Programming and Data Structures Lab	0	0	4	2
8.	21152L38	Electronic Devices and Circuits Lab	0	0	4	2
9.	21152L39	Professional Development	0	0	2	1
TOTAL			18	2	12	26

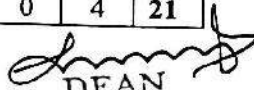
SEMESTER IV

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	21152C41	Electromagnetic Fields	3	0	0	3
2.	21152C42	Linear Integrated Circuits	3	0	0	3
3.	21152C43	Communication Systems	3	0	0	3
4.	21152C44	*Digital Signal Processing*	3	0	2	4
5.	21152C45	*Networks and Security*	3	0	2	4
6.	21149S46	Environmental Sciences and Sustainability	2	0	0	2
PRACTICALS						
7.	21152L47	Linear Integrated Circuits Laboratory	0	0	4	2
8.	21152L48	Communication Systems Laboratory	0	0	4	2
TOTAL			17	0	12	23

SEMESTER V

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	21152C51	*Wireless Communication *	3	0	2	4
2.	21152C52	VLSI and Chip Design	3	0	0	3
3.	21152C53	Transmission Lines and RF Systems	3	0	0	3
4.	21152E54	Elective - I	3	0	0	3
5.	21152E55	Elective - II	3	0	0	3
6.	21152E56	Elective - III	3	0	0	3
7.	21147MC51	Mandatory Course - I	3	0	0	0
PRACTICALS						
8.	20152L58	VLSI Laboratory	0	0	4	2
TOTAL			21	0	4	21

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SEMESTER VI

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	21152S61	*Embedded Systems and IOT Design*	3	0	2	4
2.	21152S62	*Artificial Intelligence and Machine Learning*	3	0	2	4
3.	211 OE63	Open Elective - I	3	0	0	3
4.	21152E64	Elective - IV	3	0	0	3
5.	21152E65	Elective - V	3	0	0	3
6.	21152E66	Elective - VI	3	0	0	3
7.	21147MC61	Mandatory Course - II	3	0	0	0
TOTAL			21	0	4	20

SEMESTER VII

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	211_S71	Human Values and Ethics	2	0	0	2
2.	21160S72	Elective - VII	3	0	0	3
3.	211_OE73	Open Elective - II	3	0	0	3
4.	211_OE74	Open Elective - III	3	0	0	3
5.	211_OE75	Open Elective - IV	3	0	0	3
PRACTICALS						
6.	21152INT76	Summer Internship	0	0	0	2
TOTAL			14	0	0	16

SEMESTER VIII

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
PRACTICALS						
1.	21152P81	Project Work	0	0	20	10
TOTAL			0	0	20	10
TOTAL NO. OF CREDITS:						164

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LIST OF ELECTIVES

ELECTIVE - I (SEMESTER V)

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21152E54A	Optical Communication Networks	3	0	0	3
2.	21152E54B	4G /5G Communication Networks	3	0	0	3
3.	21152E54C	Avionics Systems	3	0	0	3
4.	21152E54D	Wireless Broad Band Network	3	0	0	3

ELECTIVE - II (SEMESTER V)

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21152E55A	Software Defined Networks	3	0	0	3
2.	21152E55B	Image Processing	3	0	0	3
3.	21152E55C	Speech Processing	3	0	0	3

ELECTIVE - III (SEMESTER V)

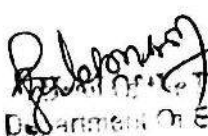
Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21152E56A	DSP Architecture and Programming	3	0	0	3
2.	21152E56B	Wireless Sensor Network Design	3	0	0	3
3.	21152E56C	Computer Vision	3	0	0	3


ELECTIVE - IV (SEMESTER VI)

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21152E64A	Software Defined Radio	3	0	0	3
2.	21152E64B	Satellite Communication	3	0	0	3
3.	21152E64C	Massive MIMO Networks	3	0	0	3
4.	21152E64D	RF ID System Design & testing	3	0	0	3

ELECTIVE - V (SEMESTER VI)

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21152E65A	Advanced Wireless Communication Techniques	3	0	0	3
2.	21152E65B	Wearable Devices	3	0	0	3
3.	21152E65C	Fundamentals of Nanoelectronics	3	0	0	3


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ELECTIVE - VI (SEMESTER VI)

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21152E66A	Remote Sensing	3	0	0	3
2.	21152E66B	Human Assist Devices	3	0	0	3
3.	21152E66C	MEMS Design	3	0	0	3

ELECTIVE - VII (SEMESTER VII)

Sl. No	COURSE CODE	COURSE TITLE	L	T	P	C
1.	21160S72A	Principles of Management	3	0	0	3
2.	21160S72B	Total Quality Management	3	0	0	3
3.	21160S72C	Human Resource Management	3	0	0	3
4.	21160S72D	Medical Imaging Systems	3	0	0	3

LIST OF OPEN ELECTIVES

OPEN ELECTIVE - I (SEMESTER VI)

Sl. No	DEPT	COURSE CODE	COURSE TITLE	L	T	P	C
1.	Civil	21155OE63	Climate Change and its Impact	3	0	0	3
2.	EEE	21153OE63	Renewable Energy System	3	0	0	3
3.	Mech	21154OE63	Introduction to Industrial Engineering	3	0	0	3
4.	CSE	21150OE63	Graph Theory	3	0	0	3
5.	ECE **	21152OE63	Deep Learning	3	0	0	3

** Applicable for other Departments

OPEN ELECTIVE - II (SEMESTER VII)

Sl. No	DEPT	COURSE CODE	COURSE TITLE	L	T	P	C
1.	Civil	21155OE73	ICT in Agriculture	3	0	0	3
2.	EEE	21153OE73	Introduction to Control Engineering	3	0	0	3
3.	Mech	21154OE73	Aviation Management	3	0	0	3

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Science
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21152E54D

WIRELESS BROADBAND NETWORKS

COURSE OBJECTIVES

- To study the various network layer and transport layer protocols for wireless networks
- To study the architecture and interference mitigation techniques in 3G standards
- To learn about 4G technologies and LTE-A in mobile cellular network.
- To learn about the layer level functionalities in interconnecting networks.
- To study the emerging techniques in 5G network.

UNIT I WIRELESS PROTOCOLS

9

Mobile network layer- Fundamentals of Mobile IP, data forwarding procedures in mobile IP, IPv4, IPv6, IP mobility management, IP addressing - DHCP, Mobile transport layer-Traditional TCP, congestion control, slow start, fast recovery/fast retransmission, classical TCP improvements- Indirect TCP, snooping TCP, Mobile TCP.

UNIT II 3G EVOLUTION

9

IMT-2000 - W-CDMA, CDMA 2000 - radio & network components, network structure, packet-data transport process flow, Channel Allocation, core network, interference-mitigation techniques, UMTS-services, air interface, network architecture of 3GPP, UTRAN – architecture, High Speed Packet Data-HSDPA, HSUPA.

UNIT III 4G EVOLUTION

9

Introduction to LTE-A – Requirements and Challenges, network architectures – EPC, E- UTRAN architecture - mobility management, resource management, services, channel -logical and transport channel mapping, downlink/uplink data transfer, MAC control element, PDU packet formats, scheduling services, random access procedure.

UNIT IV LAYER-LEVEL FUNCTIONS

9

Characteristics of wireless channels - downlink physical layer, uplink physical layer, MAC scheme - frame structure, resource structure, mapping, synchronization, reference signals and channel estimation, SC-FDMA, interference cancellation-CoMP, Carrier aggregation, Services -multimedia broadcast/multicast, location-based services.

UNIT V 5G EVOLUTION

9

5G Roadmap - Pillars of 5G - 5G Architecture, The 5G internet - IoT and context awareness - Networking reconfiguration and virtualization support - Mobility QoS control - emerging approach for resource over provisioning, Small cells for 5G mobile networks- capacity limits and achievable gains with densification - Mobile data demand, Demand Vs Capacity, Small cell challenges, conclusion and future directions.

TOTAL:45 PERIODS

COURSE OUTCOMES:

Upon completion of the course, the student will be able to

- CO1: Design and implement the various protocols in wireless networks.
- CO2: Analyze the architecture of 3G network standards.
- CO3: Analyze the difference of LTE-A network design from 4G standard.
- CO4: Describe the interconnecting network functionalities by layer level functions.
- CO5: Explore the current generation (5G) network architecture.

TEXT BOOKS

1. "Principles of wireless networks", Prentice-Hall of India, 2008

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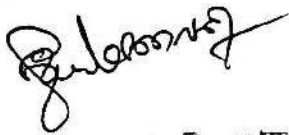
REFERENCES

1. VijayK.Garg, "WirelessNetworkEvolution-2G&3G".PrenticeHall,2008.
2. ClintSmith,P.E,DannelCollins, "3GWirelessNetworks" TataMcGraw-Hill,2ndEdition, 2011.
3. SassanAhmadi, "LTE-Advanced-
A practical systems approach to understanding the 3GPP LTE Releases
10 and 11 radio access technologies", Elsevier, 2014.
4. JonathanRodriguez, "Fundamentals of 5G Mobile networks", John Wiley, 2015.

CO's-PO's&PSO's MAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	2	2	3	3	1	-	-	-	-	2	3	3	1	1
2	3	3	2	1	3	2	-	-	-	-	-	-	3	2	2
3	3	3	3	3	2	1	-	-	-	-	-	3	3	2	2
4	2	3	3	3	2	2	-	-	-	-	-	3	2	1	2
5	2	-	3	3	2	2	-	-	-	-	-	3	2	2	1
CO	2.6	2.75	2.6	2.6	2.4	1.6	-	-	-	-	2	3	2.6	1.6	1.6

1-low,2-medium,3-high, '-'-no correlation



Head of the Department
Department of Electronics and
Communication Engineering
Ponniyiah Ramjiayam Institute of
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COURSE OBJECTIVES:

- To discuss the fundamentals of near field and far field RFID communications
- To articulate the standards and protocols used in RFID systems
- To describe the operating principles of RFID tag and reader
- To introduce the security aspects and system architecture of RFID systems
- To illustrate the industrial and scientific applications of RFID systems

UNIT I INTRODUCTION

6

RFID Principles: Near-field based RFID – Properties of Magnetic field – Far-field based RFID – Properties of Backscatter RF Systems – Modulation techniques – Frequency based property comparison of RFID Systems

UNIT II RFID STANDARDS AND PROTOCOLS

6

RFID Industry standards: EPC global – ISO 15693 Vicinity cards and RFID – ISO 14443 Proximity cards and RFID – The NFC forum – Reading collocated RFID tags: Query Tree protocol – Query Slot protocol

UNIT III OPERATING PRINCIPLES

6

RFID Tag components: RFID tag types – the 1-Bit Transponder and Chipless Tags – RFID readers and middleware component – Communication fundamentals: Coupling, Data encoding, multi-path effect – Tag, Reader and sensor communication.

UNIT IV DATA INTEGRITY AND SECURITY

6

The checksum procedure – Multiaccess procedures – Attacks on RFID Systems – Protection by Cryptographic measures

UNIT V RFID ENABLED SENSORS AND APPLICATIONS

6

RFID enabled Sensors: Antenna design challenges – IC design – Integration of sensors and RFID – Power consumption and Link budget.

Applications: Contactless smartcards – Access control – Electronic passport – Industrial Automation – Medical applications – Challenges and opportunities.

COURSE OUTCOMES:

At the end of this course, the students will be able to:

CO1: Classify RFID systems based on frequency, architecture and performance

CO2: Define standards for RFID technology

CO3: Illustrate the operation of various components of RFID systems

CO4: Describe the privacy and security issues in RFID Systems

CO5: Discuss the construction and applications of RFID enabled sensor

TEXT BOOKS

(1) Roy Want, RFID Explained, Springer 2022.

(2) Amin Rida, Wang Manos M. Tentzeris, RFID Enabled Sensor Design and Applications, Artech House, 2010

REFERENCES

1. Klaus Finkenzeller, RFID Handbook, 3rd Edition, Wiley, 2010

2. Syed Ahson, Mohammad Ilyas, RFID Handbook, CRC Press, 2008

3. Paris Kitsos, Security in RFID and Sensor Networks, CRC Press, 2016.


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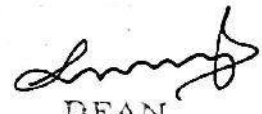
CO's-PO's&PSO'sMAPPING

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	3	3	2	2	3	1	-	-	1	-	3	2	3	2
2	3	2	3	2	2	2	1	-	-	1	-	3	3	2	2
3	3	3	3	2	3	2	1	-	-	1	-	3	2	3	2
4	3	3	3	2	2	2	1	-	-	1	-	2	3	2	2
5	3	3	2	2	2	2	2	-	-	1	-	3	2	2	2
CO	3	3	3	2	3	3	1	-	-	1	-	2	3	3	2

1-low,2-medium,3-high,'-'-nocorrelation



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21160S72D

MEDICAL IMAGING SYSTEMS

COURSE OBJECTIVES:

- To understand the generation of X-ray and its uses in Medical imaging
- To describe the principle of Computed Tomography.
- To know the techniques used for visualizing various sections of the body.
- To learn the principles of different radiodiagnostic equipment in Imaging.
- To discuss the radiation therapy techniques and radiation safety

UNIT I

X RAYS

9

Nature of X-rays- X-Ray absorption – Tissue contrast. X- Ray Equipment (Block Diagram) – X-Ray Tube, the collimator, Bucky Grid, power supply, Digital Radiography - discrete digital detectors, storage phosphor and film scanning, X-ray Image Intensifier tubes – Fluoroscopy – Digital Fluoroscopy. Angiography, cine Angiography. Digital subtraction Angiography. Mammography.

UNIT II

COMPUTED TOMOGRAPHY

9

Principles of tomography, CT Generations, X- Ray sources- collimation- X- Ray detectors – Viewing systems – spiral CT scanning – Ultrafast CT scanners. Image reconstruction techniques – back projection and iterative method.

UNIT III

MAGNETIC RESONANCE IMAGING

9

Fundamentals of magnetic resonance- properties of electromagnetic waves : speed , amplitude, phase, orientation and waves in matter - Interaction of Nuclei with static magnetic field and Radio frequency wave- rotation and precession – Induction of magnetic resonance signals – bulk magnetization – Relaxation processes T1 and T2. Block Diagram approach of MRI system – system magnet (Permanent, Electromagnet and Superconductors), generations of gradient magnetic fields, Radio Frequency coils (sending and receiving), shim coils, Electronic components, fMRI.

UNIT IV

NUCLEAR IMAGING

9

Radioisotopes- alpha, beta, and gamma radiations. Radio Pharmaceuticals. Radiation detectors – gas filled, ionization chambers, proportional counter, GM counter and scintillation Detectors, Gamma camera – Principle of operation, collimator, photomultiplier tube, X-Y positioning circuit, pulse height analyzer. Principles of SPECT and PET

UNIT V

RADIATION THERAPY AND RADIATION SAFETY

9

Radiation therapy – linear accelerator, Telegamma Machine. SRS – SRT – Recent Techniques in radiation therapy – 3D CRT – IMRT – IGRT and Cyber knife – radiation measuring instruments Dosimeter, film badges, Thermo Luminescent dosimeters – electronic dosimeter – Radiation protection in medicine – radiation protection principles

TOTAL 45 PERIODS

COURSE OUTCOMES:

At the end of the course the student will be able to:

CO1: Describe the working principle of the X-ray machine and its application.

CO2: Illustrate the principle of computed tomography

CO3: Interpret the techniques used for visualizing various sections of the body using Magnetic

CO4: Demonstrate the applications of radionuclide imaging.

CO5: Analyze different imaging techniques and choose appropriate imaging equipment for better diagnosis and outline the methods of radiation safety.

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
1	3	3	3	2	2	2	-	-	-	-	-	3	2	3	2
2	3	3	3	2	2	1	-	-	-	-	-	2	2	3	2
3	3	3	2	2	2	2	-	-	-	-	-	2	2	2	1
4	3	3	3	2	2	1	-	-	-	-	-	2	2	2	1
5	3	3	3	3	2	2	-	-	-	-	-	1	2	2	1
CO	3	3	2.8	2.2	2	1.6	-	-	-	-	-	2	2	2.4	1.4

CO's-PO's&PSO'Smapping

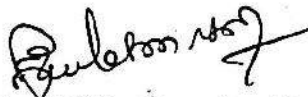
1-low,2-medium,3-high,'-'-nocorrelation

TEXTBOOKS:

1. Isaac Bankman, I.N. Bankman, Handbook Of Medical Imaging: Processing and Analysis (Biomedical Engineering), Academic Press, 2000
2. Jacob Beutel (Editor), M. Sonka (Editor), Handbook of Medical Imaging, Volume 2. Medical Image Processing and Analysis, SPIE Press 2000
3. Khin Wee Lai, Dyah Ekashanti Octorina Dewi "Medical Imaging Technology", Springer Singapore, 2015

REFERENCE BOOKS

1. Khandpur R.S, "Handbook of Biomedical Instrumentation", Tata McGraw – Hill, New Delhi, 2003.
2. Dougherty, Geoff (Ed.), "Medical Image Processing - Techniques and Applications", Springer-Verlag New York, 2011



Head Of the Department
 Department Of Electronics and
 Communication Engineering
 Ponnaiyan Ramajayam Institute of
 Science & Technology (PRIST)
 (Institution Deemed to be University
 U/s 3 of the UGC Act, 1956)
 THANJAVUR - 613 403, TAMIL NADU.



DEAN
 School of Engineering and Tech.
 Ponnaiyan Ramajayam Institute of
 Science and Technology (PRIST)
 Deemed to be University
 Vailam, Thanjavur-613 403,

B.TECH (PART TIME) – ECE – R-2022**SEMESTER I – VII CURRICULUM****SEMESTER-I**

S.NO	SUB CODE	SUBJECT NAME	Periods Per Week			C
			L	T	P	
1	22148S11P	Transforms and Partial Differential Equations	3	1	0	4
2	22152C12P	Electromagnetic Fields	3	1	0	4
3	22152C13P	Digital Electronics	3	1	0	4
4	22152C14P	Electronic Circuits - I	3	0	0	3
5	22152C15P	Signals and Systems	4	0	0	4
TOTAL CREDITS						19

SEMESTER-II

S.NO	SUB CODE	SUBJECT NAME	Periods Per Week			C
			L	T	P	
1	22148S21BP	Probability and Random Processes	3	1	0	4
2	22152C22P	Communication Theory	3	0	0	3
3	22152C23P	Linear Integrated Circuits	3	1	0	4
4	22152C24P	Electronic Circuits – II	3	1	0	4
5	22152C25P	Transmission Lines and Waveguides	4	0	0	4
TOTAL CREDITS						19

SEMESTER-III

S.NO	SUB CODE	SUBJECT NAME	Periods Per Week			C
			L	T	P	
1.	22148S31BP	Numerical Methods	3	1	0	4
2.	22152C32P	Microprocessor and Microcontrollers	3	1	0	4
3.	22152C33P	Digital Signal Processing	3	1	0	4
4.	22152C34P	Digital Communication	3	1	0	4
5.	22152L35P	Microprocessor and Microcontrollers Lab	0	0	3	2
TOTAL CREDITS						18

SEMESTER-IV

S.NO	SUB CODE	SUBJECT NAME	Periods Per Week			C
			L	T	P	
1	22152C41P	Medical Electronics	3	1	0	4
2	22152C42P	Antenna and Wave Propagation	3	1	0	4
3	22152C43P	Computer Networks	4	0	0	4
4	22152E44_P	Elective-I	4	0	0	4
5	22152L45P	Networks and Communication Lab	0	0	3	2
TOTAL CREDITS						18

SEMESTER-V

S.NO	SUB CODE	SUBJECT NAME	Periods Per Week			C
			L	T	P	
1	22152C51P	Optical Communication and Networks	4	0	0	4
2	22152C52P	Microwave Engineering	4	0	0	4
3	21160C53P	Principles of Management	3	1	0	4
4	22152E54_P	Elective II	4	0	0	4
5	22152L55P	Optical Communication and Microwave Lab	0	0	3	2
TOTAL CREDITS						18

SEMESTER-VI

S.NO	SUB CODE	SUBJECT NAME	Periods Per Week			C
			L	T	P	
1	22152C61P	Wireless Communication	4	0	0	4
2	22152C62P	VLSI Design	3	1	0	4
3	22152C63P	Embedded and Real Time Systems	3	1	0	4
4	22152E64_P	Elective III	4	0	0	4
5	22152L65P	VLSI and Embedded Systems Lab	0	0	3	2
TOTAL CREDITS						18

SEMESTER-VII

S.NO	SUB CODE	SUBJECT NAME	Periods Per Week			C
			L	T	P	
1	21160S71P	Total Quality Management	3	0	0	3
2	22152C72P	Wireless Networks	3	1	0	4
3	22152C73P	Telecommunication Switching and Networks	4	0	0	4
4	22152E74_P	Elective IV	3	0	0	3
5	22152P75P	Project Work	0	0	12	6
TOTAL CREDITS						20

LIST OF ELECTIVES

ELECTIVE-I (SEMESTER-IV)

S.No	Sub Code	Sub Name	Periods Per Week			C
			L	T	P	
1	22152E44AP	High Speed Networks	4	0	0	4
2	22152E44BP	Advanced Digital Signal Processing	4	0	0	4
3	22152E44CP	Speech Processing	4	0	0	4
4	22152E44DP	Fuzzy Logic and Neural Networks	4	0	0	4
5	22152E44EP	Advanced Electronic System Design	4	0	0	4

ELECTIVE-II (SEMESTER-V)

S.No	Sub Code	Sub Name	Periods Per Week			C
			L	T	P	
1.	22152E54AP	Environmental Science and Engineering	4	0	0	4
2.	22152E54BP	Optoelectronic Devices	4	0	0	4
3.	22152E54CP	Radar and Navigational Aids	4	0	0	4
4.	22152E54DP	Digital Image Processing	4	0	0	4
5.	22152E54EP	Engineering Acoustics	4	0	0	4
6.	22152E54FP	Therapeutic Equipment	4	0	0	4

ELECTIVE-III (SEMESTER-VI)

S.No	Sub Code	Sub Name	Periods Per Week			C
			L	T	P	
1	22152E64AP	Professional Ethics in Engineering	4	0	0	4
2	22152E64BP	Satellite Communication	4	0	0	4
3	22152E64CP	Robotics and Automation	4	0	0	4
4	22152E64DP	Remote sensing	4	0	0	4
5.	22152E64EP	Network Security	4	0	0	4

ELECTIVE-IV (SEMESTER-VII)

S.No	Sub Code	Sub Name	Periods Per Week			C
			L	T	P	
1	22152E74AP	Power Electronics	3	0	0	3
2	22152E74BP	Advanced Microprocessors and Microcontrollers	3	0	0	3
3	22152E74CP	Electromagnetic Interference and Compatibility	3	0	0	3
4	22152E74DP	Solid State Electronic Drives	3	0	0	3
5	22152E74EP	Computer Hardware and Interfacing	3	0	0	3
6	22152E74FP	Brain Computer Interface And Application	3	0	0	3

B.TECH (PART TIME) – ECE – R-2022

COURSE STRUCTURE AND CREDITS DISTRIBUTION

Sem.	Core Courses				Elective Courses		Total Credits
	Theory Courses		Practical Courses				
	Nos.	Credits	Nos.	Credits	Nos.	Credits	
I	05	19	-	-	-	-	19
II	05	19	-	-	-	-	19
III	04	16	01	02	-	-	18
IV	03	12	01	02	01	04	18
V	03	12	01	02	01	04	18
VI	03	12	01	02	01	04	18
VII	03	11	01	06	01	03	20
Total Credits							130

22152E54FP-THERAPEUTIC EQUIPMENT

COURSE OBJECTIVES:

- To learn the principles of cardiac assist devices.
- To understand the need and use of extracorporeal devices, and the use of lasers in medicine.
- To enable the student to gain knowledge on the working of therapeutic clinical equipment.

UNIT I CARDIAC AND RESPIRATORY THERAPY EQUIPMENT

9

Cardiac Pacemaker: Internal and External Pacemaker – Programmable pacemakers.

Cardiac Defibrillators: AC and DC Defibrillator- Internal and External Defibrillators - Protection Circuit, Defibrillator analyzers. Cardiac ablation catheter.

Types of Ventilators – Pressure, Volume, and Time controlled. Basic principles of electromechanical, pneumatic and electronic ventilators, Patient Cycle Ventilators, Ventilator testing. Humidifiers, Nebulizers, Inhalators.

UNIT II BIOMECHANICAL THERAPEUTIC EQUIPMENT

9

Electrodiagnosis, Therapeutic radiation, Electrotherapy, Electrodes, Stimulators for Nerve and Muscle, Functional Electrical Stimulation. peripheral nerve stimulator, ultrasonic stimulators, Stimulators for pain and relief - Inferential Therapy Unit, TENS. GAIT Assessment and Therapy. Continuous Passive Motion unit, Cervical / Lumber Traction Machine -Traction Table.

UNIT III BODY CARE EQUIPMENT

9

Skin Treatment: Ultrasonic spot remove, vacuum therapy unit, Skin tightening, Wrinkle Reduction, Facial and Rejuvenation. Laser hair therapy machine. Body Slimmer/Shaper – Deep Heat Therapy, Massager, Fitness – Treadmill, Bike.

UNIT IV DENTAL CARE EQUIPMENT

9

Dental Chair - Dental Hand pieces and Accessories: Evolution of rotary equipment, Low-speed handpiece, High-speed handpiece, Hand piece maintenance. Vacuum and Pneumatic techniques: Vacuum techniques, Oral evacuation systems, Vacuum pump, Pneumatic techniques, Dental compressor. Decontamination Unit and constant fumigation unit. Dental Radiography: Dental X-ray Machine.

UNIT V HEAT & PHOTON THERAPY EQUIPMENT

9

High frequency heat therapy, Principle, Short wave diathermy, Microwave diathermy, Ultrasonic therapy, Lithotripsy. Therapeutic UV and IR Lamps. Basic principles of Biomedical LASERS: Applications of lasers in medicine, CO₂ laser, He-Ne laser, Nd-YAG and Ruby laser.

COURSE OUTCOMES:

On successful completion of this course, the student will be able to

CO1: Suggest suitable therapeutic devices for ailments related to cardiology, pulmonology, neurology, etc

CO2: Comprehend the principles of body care equipment

CO3: Understand the operation of dental care equipment.

CO4: Analyze the different types of therapies for suitable applications.

CO5: Appreciate the application of lasers in biomedical applications.

TOTAL: 45 PERIODS

TEXTBOOKS

1. Khandpur.R.S., "Handbook of Biomedical Instrumentation". Second Edition. Tata McGraw Hill Pub. Co., Ltd. 2003.
2. John.G.Webster. "Medical Instrumentation, Application and Design". Fourth Edition. Wiley & Sons, Inc., New York. 2009.

REFERENCES

1. Leslie Cromwell, Fred.J.Weibell & Erich.A.Pfeiffer. "Biomedical Instrumentation and Measurements". Second Edition. Prentice Hall Inc. 2000.
2. John Low & Ann Reed. "Electrotherapy Explained, Principles and Practice". Second Edition. Butterworth Heinemann Ltd. 2000.

22152E74FP-BRAINCOMPUTERINTERFACEANDAPPLICATIONS

COURSEOBJECTIVES:

The students should be made to:

- To understand the basic concepts of brain computer interface
- To study the various signal acquisition methods
- To study the signal processing methods used in BCI

UNIT I INTRODUCTION TO BCI

9

Fundamentals of BCI – Structure of BCI system – Classification of BCI – Invasive, Non-invasive and Partially invasive BCI – EEG signal acquisition - Signal Preprocessing – Artifacts removal.

UNIT II ELECTROPHYSIOLOGICAL SOURCES

9

Sensorimotor activity – Mu rhythm, Movement Related Potentials – Slow Cortical Potentials-P300 - Visual Evoked Potential - Activity of Neural Cells - Multiple Neuromechanisms.

UNIT III FEATURE EXTRACTION METHODS

9

Time/Space Methods – Fourier Transform, PSD – Wavelets – Parametric Methods – AR, MA, ARMA models – PCA – Linear and Non-Linear Features.

UNIT IV FEATURE TRANSLATION METHODS

9

Linear Discriminant Analysis – Support Vector Machines – Regression – Vector Quantization – Gaussian Mixture Modeling – Hidden Markov Modeling – Neural Networks.

UNIT V APPLICATIONS OF BCI

9

Functional restoration using Neuroprosthesis - Functional Electrical Stimulation, Visual Feedback and control - External device control, Case study: Brain actuated control of mobile Robot.

COURSE OUTCOMES:

On successful completion of this course, the student will be able to

CO1: Describe BCI system and its potential applications.

CO2: Analyze event related potentials and sensory motor rhythms.

CO3: Compute features suitable for BCI. **CO4:** Design classifier for a

BCI system. **CO5:** Implement BCI for various applications.

TOTAL: 45 PERIODS

TEXTBOOKS

Bernhard Graimann, Brendan Allison, Gert Pfurtscheller, “Brain-

Computer Interfaces: Revolutionizing Human-Computer Interaction”, Springer, 2010.

REFERENCES

1. R. Spehlmann, “EEG Primer”, Elsevier Biomedical Press, 1981.
2. Arnon Kohen, “Biomedical Signal Processing”, Volland II, CRC Press Inc, Boca Raton, Florida, 1986.
3. Bishop C.M., “Neural Networks for Pattern Recognition”, Oxford, Clarendon Press, 1995.

M.TECH. COMMUNICATION SYSTEMS - FULL TIME-R-2022

SEMESTER I – IV CURRICULUM

SEMESTER I

S.N	SUB CODE	SUBJECT	L	T	P	C
Theory						
1	22248S11B	Applied Mathematics for Electronics Engineering	3	1	0	4
2	22271C12	Advanced Digital Signal Processing	3	1	0	4
3	22271C13	Advanced Digital Communication Techniques	3	1	0	4
4	22271C14	Optical Networks	4	0	0	4
5	22271C15	Advanced Radiation Systems	4	0	0	4
6	22271E16_	Elective-I	3	0	0	3
Practical						
7	22271L17	Communication Systems Lab – I	0	0	3	3
Total			20	3	3	26

SEMESTER II

S.N	SUB CODE	SUBJECT	L	T	P	C
Theory						
1	22271C21	Mobile Communication Networks	4	0	0	4
2	22271C22	Advanced Microwave Systems	4	0	0	4
3	22271C23	Electromagnetic Interference and Compatibility	4	0	0	4
4	22271E24_	Elective-II	3	0	0	3
5	22271E25_	Elective-III	3	0	0	3
Practical						
6	22271L26	Communication Systems Lab – II	0	0	3	3
7	222TECWR	Technical Writing /Seminars	0	0	3	3
Total			18	0	6	24

SEMESTER III

S.N	SUB CODE	SUBJECT	L	T	P	C
Theory						
1	22271C31	Wireless Sensor Networks	4	0	0	4
2	22271E32_	Elective – IV	3	0	0	3
3	22271E33_	Elective – V	3	0	0	3
4	22271E34_	Elective – VI	3	0	0	3
Project						
5	22271P35	Project Phase – I	0	0	10	10
Total			13	0	10	23

SEMESTER IV

S.N	SUB CODE	SUBJECT	L	T	P	C
1	22271P41	Project Phase – II	0	0	15	15
Total			0	0	15	15
TOTAL NO. OF CREDITS						88

LIST OF ELECTIVES**Elective-I (SEMESTER – I)**

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E16A	Internetworking and Multimedia	3	0	0	3
2.	22271E16B	Digital Image Processing	3	0	0	3
3.	22271E16C	LASER Communication	3	0	0	3

Elective-II (SEMESTER – II)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E24A	High Speed Switching Architecture	3	0	0	3
2.	22271E24B	DSP Processor Architecture and Programming	3	0	0	3
3.	22271E24C	Digital Speech Processing	3	0	0	3

Elective-III (SEMESTER – II)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E25A	Digital Communication Receivers	3	0	0	3
2.	22271E25B	Soft Computing Techniques	3	0	0	3
3.	22271E25C	Communication Network Security	3	0	0	3

Elective-IV (SEMESTER – III)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E32A	Software Defined Radio	3	0	0	3
2.	22271E32B	Satellite Communication	3	0	0	3
3.	22271E32C	CDMA Systems	3	0	0	3

Elective-V (SEMESTER – III)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E33A	Wavelets and Multi Resolution Processing	3	0	0	3
2.	22271E33B	High Performance Communication Networks	3	0	0	3
3.	22271E33C	Advanced Microprocessors and Microcontrollers	3	0	0	3
4.	22271E33D	Rocketry And Space Mechanics	3	0	0	3

Elective-VI (SEMESTER – III)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E34A	Space Time Wireless Communication	3	0	0	3

2.	22271E34B	Medical Imaging	3	0	0	3
3.	22271E34C	Mobile ADHOC Networks	3	0	0	3
4.	22271E34D	Positioning And Navigation Systems	3	0	0	3

M.TECH. COMMUNICATION SYSTEMS - FULL TIME-R-2022

Course Structure and Credit Distribution

Sem.	Core Courses						Elective Courses		Foundation Courses		Total Credits
	Theory Courses		Practical Courses		Courses on *RSD						
	Nos.	Credits	Nos.	Credits	Nos.	Credits	Nos.	Credits	Nos.	Credits	
I	04	16	01	03	-	-	01	03	01	04	26
II	03	12	02	06	-	-	02	06	-	-	24
III	01	04	01	10	-	-	03	09	-	-	23
IV	-	-	01	15	-	-	-	-	-	-	15
Total Credits											88

COURSE OBJECTIVES:

- This course presents the fundamental aspects of rocket motion along with detailed estimation of rocket trajectories.
- This course also imparts knowledge on optimization of multistage rockets.
- This course provides the basics of spacemechanics required for an aeronautical student
- This course helps students to provide with the basics of orbit transfer of satellites.
- This course will help students to gain knowledge on various control methods of rockets.

UNIT I ORBITAL MECHANICS

9

Description of solar system – Kepler's Laws of planetary motion – Newton's Law of Universal gravitation – Two body and Three-body problems – Jacobi's Integral, Librations points – Estimation of orbital and escape velocities.

UNIT II SATELLITE DYNAMICS

9

Geosynchronous and geostationary satellites- factors determining life time of satellites – satellite perturbations – orbit transfer and examples – Hohmann orbits – calculation of orbit parameters– Determination of satellite rectangular coordinates from orbital elements.

UNIT III ROCKET MOTION

9

Principle of operation of rocket motor – thrust equation – one dimensional and two dimensional rocket motions in free space and homogeneous gravitational fields – Description of vertical, inclined and gravity turn trajectories – determinations of range and altitude – simple approximations to burnout velocity.

UNIT IV ROCKET AERODYNAMICS

9

Description of various loads experienced by a rocket passing through atmosphere – drag estimation – wave drag, skin friction drag, form drag and base pressure drag – Boat-tailing in missiles – performance at various altitudes – rocket stability – rocket dispersion – launching problems.

UNIT V STAGING AND CONTROL OF ROCKET VEHICLES

9

Need for multi staging of rocket vehicles – multistage vehicle optimization – stage separation dynamics and separation techniques- aerodynamic and jet control methods of rocket vehicles – SITVC.

COURSE OUTCOMES:

Upon completion of this course, students will be able

CO1: To know the fundamental laws of orbital mechanics with particular emphasis on interplanetary trajectories.

CO2: To calculate orbital parameters and perform conceptual trajectory designs for geocentric or interplanetary missions.

CO3: To familiarize themselves with trajectory calculations for planar motion of rockets.

CO4: To determine forces and moments acting on an airframe of a missile.

CO5: To acquire knowledge on the need for staging and stage separation dynamics of rocket vehicles.

TEXTBOOKS

1. Cornelisse, JW, "Rocket Propulsion and Space Dynamics", J.W. Freeman & Co., Ltd., London, 1982.
2. Parker, ER, "Materials for Missiles and Spacecraft", McGraw-Hill Book Co., Inc., 1982.

REFERENCES

1. Suresh. BN & Sivan. K, "Integrated Design for Space Transportation System", Springer India, 2015.
2. Sutton, GP, "Rocket Propulsion Elements", John Wiley & Sons Inc., New York, 8th Edition, 2010.
3. VandeKamp, "Elements of Astromechanics", Pitman Publishing Co., Ltd., London, 1980

22271E34D

POSITIONING AND NAVIGATION SYSTEMS

COURSE OBJECTIVES

- To explain the fundamentals of navigation systems.
- To understand the inertial navigation systems
- To acquire knowledge on radio navigation.
- To have an overview of global positioning systems
- To learn the hybrid navigation systems.

UNIT I

NAVIGATION CONCEPTS

9

Fundamentals of navigation systems and Position Fixing – Categories of navigation - Geometric concepts of Navigation – The Earth in inertial space - Different Coordinate Systems – Coordinate Transformation - Euler angle formulations - Direction cosine matrices formulation - Quaternion formulation.

UNIT II

INERTIAL NAVIGATION SYSTEMS

9

Inertial sensors - Gyroscopes - Types - Mechanical - Electromechanical - Optical Gyro - Ring Laser gyro - Fiber optic gyro - Accelerometers – Pendulous type – Force Balance type – MEMs - Basic Principles of Inertial Navigation – Types - Platform and Strap down - Mechanization INS system - Rate Corrections - Acceleration errors – Schuler Tuning.

UNIT III

RADIO NAVIGATION & AIR TRAFFIC MANAGEMENT

9

Different types of radio navigation - ADF, VOR, DME, TACAN, VORTAC - Doppler – Hyperbolic Navigations – Air Traffic Management – RADAR Surveillance - Airborne Collision Avoidance Systems

UNIT IV

GLOBAL POSITIONING SYSTEM

9

Overview of GPS: Basic concept, system architecture, , GPS Signals Signal structure, anti-spoofing (AS), selective availability, GPS for position and velocity determination, GPS aided Geo-augmented navigation (GAGAN) architecture - GPS error sources - clock error, ionospheric error, tropospheric error, multipath, ionospheric error estimation using dual frequency GPS receiver

UNIT V

HYBRID NAVIGATION & RELATIVE NAVIGATION SYSTEMS

9

Hybrid Navigation - Introduction to Kalman filtering – Case Studies - Integration of GPS and INS using Kalman Filter - Relative Navigation – fundamentals – Equations of Relative Motion for circular orbits (Clohessy-Wiltshire Equations) - Sensors for Rendezvous Navigation - Relative positioning - Point positioning and differential positioning - Differential GPS (DGPS) and Space based Augmentation system (SBAS) - Concepts - Relative GPS - Formation Flying - Figure of Merit (FOM)

COURSE OUTCOME:

Upon completion of the course, students will be able to

CO1 : Understand the advanced concepts of Positioning and Navigation systems and exposure on various Navigation systems

CO2 : Know about Gyroscopes and accelerometers and Inertial Navigation systems and its types and Mechanisation

CO3 : Explain the different Radio Navigation aids and its usage for civil and military aircrafts and satellites

CO4 : Explain the Satellite Navigation – GPS and its usage in aircraft and spacecraft applications

CO5 : Deploy these skills effectively in the analysis and understanding of hybrid navigation systems and Relative navigation in a spacecraft.

TEXTBOOKS:

1. Myron Kyton, Walfred Fried, 'Avionics Navigation Systems', John Wiley & Sons, 2 edition, 1997.
2. Nagaraja, N.S. "Elements of Electronic Navigation", Tata McGraw-Hill Pub. Co., New Delhi, 2nd edition, 1975.

REFERENCES:

1. George M Siouris, 'Aerospace Avionics System; A Modern Synthesis', Academic Press Inc., 1993.
2. Albert Helfrick, 'Practical Aircraft Electronic Systems', Prentice Hall Education, Career & Technology, 1995.
3. Albert D. Helfrick, 'Modern Aviation Electronics', Second Edition, Prentice Hall Career & Technology, 1994.
4. Paul. D. Groves. 'Principles of GNSS, Inertial, and Multisensor Integrated Navigation Systems', Artech House, 2013.
5. Maxwell Noton, "Spacecraft navigation and guidance", Springer (London, New York), 1998

M.TECH (PART TIME) - COMMUNICATION SYSTEMS – R-2022

SEMESTER I – VI CURRICULUM

SEMESTER I

S.N	SUB CODE	SUBJECT	L	T	P	C
Theory						
1	22248S11BP	Applied Mathematics for Electronics Engineering	3	1	0	4
2	22271C12P	Advanced Digital Signal Processing	3	1	0	4
3	22271C13P	Advanced Digital Communication Techniques	3	1	0	4
Practical						
4	22271L14P	Communication Systems Lab - I	0	0	3	3
Total						15

SEMESTER II

S.N	SUB CODE	SUBJECT	L	T	P	C
Theory						
1	22271C21P	Mobile Communication Networks	4	0	0	4
2	22271C22P	Advanced Microwave Systems	4	0	0	4
3	22271E23_P	Elective-I	3	0	0	3
Practical						
4	22271L24P	Communication Systems Lab - II	0	0	3	3
5	222TECW RP	Technical Writing /Seminars	0	0	3	3
Total						17

SEMESTER III

S.N	SUB CODE	SUBJECT	L	T	P	C
Theory						
1	22271C31P	Electromagnetic Interference and Compatibility	4	0	0	4
2	22271C32P	Advanced Radiation Systems	4	0	0	4
3	22271E33_P	Elective – II	3	0	0	3
Total						11

SEMESTER IV

S.N	SUB CODE	SUBJECT	L	T	P	C
Theory						
1	22271C41P	Wireless Sensor Networks	4	0	0	4
2	22271C42P	Optical Networks	4	0	0	4
3	22271E43_P	Elective-III	3	0	0	3

Project						
4	22271P44P	Project Work Phase – I	0	0	10	10
Total						21

SEMESTER V

S.N	SUB CODE	SUBJECT	L	T	P	C
Theory						
1	22271E51_P	Elective-IV	3	0	0	3
2	22271E52_P	Elective-V	3	0	0	3
3	22271E53_P	Elective-VI	3	0	0	3
Total						9

SEMESTER VI

S.N	SUB CODE	SUBJECT	L	T	P	C
1	22271P61P	Project Work Phase – II	0	0	15	15
Total						15
TOTAL NO. OF CREDITS						88

LIST OF ELECTIVES

Elective-I (SEMESTER-II)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E23AP	High Speed Switching Architecture	3	0	0	3
2.	22271E23BP	DSP Processor Architecture and Programming	3	0	0	3
3.	22271E23CP	Digital Speech Processing	3	0	0	3

Elective-II (SEMESTER-III)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E33AP	Internetworking and Multimedia	3	0	0	3
2.	22271E33BP	Digital Image Processing	3	0	0	3
3.	22271E33CP	LASER Communication	3	0	0	3

Elective-III (SEMESTER-IV)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E43AP	Digital Communication Receivers	3	0	0	3
2.	22271E43BP	Soft Computing Techniques	3	0	0	3
3.	22271E43CP	Communication Network Security	3	0	0	3

Elective-IV (SEMESTER-V)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E51AP	Software Defined Radio	3	0	0	3
2.	22271E51BP	Satellite Communication	3	0	0	3
3.	22271E51CP	CDMA Systems	3	0	0	3
4.	22271E51DP	Validation And Testing Technology	3	0	0	3

Elective-V (SEMESTER-V)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E52AP	Wavelets and Multi Resolution Processing	3	0	0	3
2.	22271E52BP	High Performance Communication Networks	3	0	0	3
3.	22271E52CP	Advanced Microprocessors and Microcontrollers	3	0	0	3
4.	22271E52DP	Ocean Acoustics	3	0	0	3

Elective-VI (SEMESTER-V)

S.N	SUB CODE	SUBJECT	L	T	P	C
1.	22271E53AP	Space Time Wireless Communication	3	0	0	3
2.	22271E53BP	Medical Imaging	3	0	0	3
3.	22271E53CP	Mobile ADHOC networks	3	0	0	3

M.TECH (PART TIME) - COMMUNICATION SYSTEMS – R-2019

Course Structure and Credit Distribution

Sem.	Core Courses				Elective Courses		Foundation Courses		Total Credits
	Theory Courses		Practical Courses						
	Nos.	Credits	Nos.	Credits	Nos.	Credits	Nos.	Credits	
I	02	08	01	03	-	-	01	04	15
II	02	08	02	06	01	03	-	-	17
III	02	08	-	-	01	03	-	-	11
IV	02	08	01	10	01	03	-	-	21
V	-	-	-	-	03	09	-	-	09
VI	-	-	01	15	-	-	-	-	15
Total Credits									88

*RSD-Research Skill Development Courses

COURSE OBJECTIVES:

- Getting familiar with various IC technology.
- Learn MOS theory and testing
- Learn CMOS circuit theory and testing
- Getting expertise on CMOS characterization.
- Explore circuit and device level testing methods

UNIT I TECHNOLOGY INTRODUCTION: 6

Introduction to IC Technology – MOS, PMOS, NMOS, CMOS & BiCMOS Technologies. VLSI Fabrication, Oxidation, Lithography, Diffusion, Ion Implantation, Metallization, Integrated Resistors and Capacitors.

UNIT II MOSTHEORY ANALYSIS-I 6

Basic Electrical Properties of MOS Circuits: Ids-Vds Relationships, MOS Transistor Threshold Voltage V_{th} , μ_m , μ_p , Figure of Merit μ_0 , Short Channel and Narrow Channel Width Effects.

UNIT III MOSTHEORY ANALYSIS- II 6

Pass Transistor, Transmission Gate, NMOS Inverter, Various Pull-ups, CMOS Inverter Analysis and Design, Bi-CMOS Inverters, Latch up in CMOS Circuits.

UNIT IV CMOS CIRCUIT CHARACTERISATION AND PERFORMANCE ESTIMATION 6

Sheet Resistance R_S , conductivity and its Concept to MOS, Area Capacitance Units, Calculations - Delays, Driving Large Capacitive Loads, Delay Estimation, Logical Effort and Transistor Sizing, Power Dissipation, Reliability.

UNIT V BASIC OF SILICON VALIDATION 6

Need for Testing, Testing at Various Levels, Objectives of Testing - VLSI Test process and Test Equipment - Types of Testing: Functionality Tests, Silicon Debug, Manufacturing Tests, Defect during manufacturing - Fault Modelling, Observability and Controllability, Fault Coverage, Fault Sampling - ATE, Test economics.

30 PERIODS**COURSE OUTCOMES:**

Upon successful completion of the course the student will be able to

CO1: Complete overview to CMOS fabrication process.

CO2: Understand the fundamental concept of MOSFET and testing.

CO3: Explain the concept of MOS theory and analysis.

CO4: To give the student an understanding of CMOS performance testing and estimation.

CO5: Explain the basics of Testing and Fault Modeling

TOTAL: 60 PERIODS

TEXT BOOKS:

1. Kamran Ehraghian, Douglas A. Pucknell and Sholeh Eshraghian, "Essentials of VLSI Circuits and Systems" – PHI, EEE, 2005 Edition.
2. Neil H. E. West and David Harris Ayan Banerjee, "CMOS VLSI Design" - Pearson Education, 1999.

REFERENCES

1. M.L. Bushnell and V.D. Agrawal, "Essentials of Electronic Testing for Digital, Memory and Mixed-Signal VLSI Circuits", Kluwer Academic Publishers, 2004
2. N.K. Jha and S.G. Gupta, "Testing of Digital Systems", Cambridge University Press, 2003
3. Etienne Sicard, Sonia Delmas Bendhia, "Basics of CMOS Cell Design", TMH, EEE, 2005

COURSE OBJECTIVES:

- To enable the student to understand the importance of ocean acoustics for marine applications.
- To understand the physics of sound propagation and the factors affecting sound signal in the ocean
- To study the types and characteristics of acoustic transducers and arrays
- To understand the sources of ambient noise present in the sea and impacts of sound on marine diversity
- To expose the student in the basics of underwater acoustics signal processing and image processing

UNIT I FUNDAMENTALS OF UNDERWATER ACOUSTICS 6

Ocean Acoustic environment; Measuring sound levels and relevant units; Sound propagation in the ocean – sound velocity profiles in the deep water and shallow water; Sound attenuation in the sea – absorption, scattering, transmission loss, reverberation, Snell's law, target strength; SONAR systems- active, passive SONAR equations and system parameters.

UNIT II UNDERWATER ACOUSTIC TRANSDUCERS AND DEVICES 6

Principles of transduction and SONAR transducer design; Electromechanical Analog circuits, coupling coefficient, efficiency, Directivity characteristics of receivers, frequency response characteristics of transducers, Transducer measurement techniques; Physical geometry of arrays - linear, planar, cylindrical, spherical, beam patterns, array gain.

UNIT III AMBIENT NOISE IN THE OCEAN 6

Sources of noise, Natural and Physical sounds - Seismic, Wind, Wave, Rain and Turbulence; Biological sounds - Dolphin, Whales, Fishes; Man made Noises- Shipping Machinery noises, Pile driving, Wind Mills; Variability of Ambient noises; Frequency Bands, Noise levels of all above; Impacts of Sound on Marine Animals.

UNIT IV PROCESSING OF UNDERWATER ACOUSTIC SIGNALS AND IMAGES 6

Representations of the signals – Fourier representations, Spatial filtering; Matched filters and Autocorrelations, Temporal resolution; Signal to Noise Ratio, Estimation of Auto Covariance, Cross Covariance; Power spectra of different Underwater Signals, Classification of signals; Concept and Types of beamforming techniques; Image segmentation, Filtering, Equalization and Restoration

UNIT V UNDERWATER ACOUSTIC INSTRUMENTS AND ITS APPLICATION 6

Principles of Sonar systems, Echosounder – single beam, multi beam; Side scan sonars – Imaging, Underwater acoustic camera; Sub bottom profilers – Sediment classification; Acoustic modem – Tsunami systems; Acoustic Positioning system- Transponders, USBL, SSBL systems, HiPAP; Underwater telephone; Underwater noise recorders; Underwater Beacons.

30 PERIODS**COURSE OUTCOMES:**

On successful completion of this course, the student will be able to

CO1: Understand the basics of underwater sound and its propagation in ocean

CO2: To simulate/design any underwater SONAR systems for ocean application **CO3:** To identify different kinds of noises present in the ocean and its impacts on

the marine biodiversity

CO4: Ability to get exposure in analyzing and applying suitable techniques for underwater acoustic signals and images

CO5: To recognize different types of SONAR systems used practically

TEXTBOOKS

1. Robert J. Urick, — Principles of Underwater Sound, Third Edition, Peninsula Publishing, 2013
2. Herman Medwin and Clarence S. Clay, — Fundamentals of Acoustical Oceanography, First Edition, Academic Press, 1998.

REFERENCES

1. L.M. Brekhovskikh and Yu.P. Lysanov, — Fundamentals of Ocean Acoustics, Third Edition, Springer, 2003
2. John G. Proakis and Manolakis, — Digital Signal Processing Principles, Algorithms and Applications, Fourth Edition, Pearson, 2006.

Rafael C. Gonzalez, Richard E. Woods, Steven Eddins, — Digital Image Processing using MATLAB, Third Edition, Gatesmark Publishing, 2020



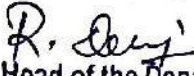
MINUTES OF THE BOARD OF STUDIES MEETING

Board: Civil


The Chairman of BOS welcomed all the panel members for the meeting. The item listed in the agenda were taken for discussion.

The following are the minutes of the meeting

Agendum 1: Confirmation of the previous Meeting Minutes
Discussion: Discussion: To confirm the previous BoS Meeting Minutes and to discuss the action taken on the previous BoS Meeting Minutes.
Resolution: Board approved the same
Agendum 2: Action taken on the previous Meeting Minutes
Discussion: Changes in 21R of B.Tech. FT, 19R of B.Tech. PT and M.Tech. FT and PT has been discussed.
Resolution: Carried out the advised changes in 21R of B.Tech. FT, 19R of B.Tech. PT and M.Tech. FT and PT
Agendum 3: Scrutiny of stakeholders' feedback on existing curriculum and syllabus.
Discussion: To scrutinize the abstract of stakeholders feedback on existing curriculum and syllabus for B.Tech.-Civil (Full Time/Part Time) and M.Tech.-Structural Engineering (Full Time/Part Time).
Resolution: The members of the Board thoroughly scrutinized the existing curriculum and syllabus and the abstract of stakeholders feedback on B.Tech. -Civil (Full Time/Part Time) and M.Tech.-Structural Engineering (Full Time/Part Time) and resolved to continue with the existing syllabus.
Agendum 4: Discuss the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) of B.Tech. (FT/PT) and M.Tech. (FT/PT).
Discussion: To discuss upon the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) of B.Tech. (FT/PT) and M.Tech. (FT/PT).
Resolution: The members of the Board scrutinized the Programme Educational Objectives (PEOs), Programme Outcomes (POs) and Programme Specific Outcomes (PSOs) and resolved to continue with the same for B.Tech (FT/PT) and M.Tech.(FT/PT).
Agendum 5: Introduction of newly added Value added courses
Discussion: To introduce newly added value added courses as follows


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i) BIM Courses ii) QA Course for Civil Engineers
Resolution: The members of the Board scrutinized the syllabus contents of newly added value added courses and resolved to introduce the same.
Agendum 6: Introduction of the syllabus of Audit courses
Discussion: To introduce the syllabus content of Audit courses
Resolution: The members of the Board scrutinized the syllabus contents of newly added Audit courses and resolved to introduce the same.
Agendum 7: Discussed about the skills, cracking interviews and professional development of students towards the corporate futures
Discussion: Arrangement for professional development classes for the students of final year.
Resolution: Schedule of classes for the Professional development has been done.
Agendum 8: Discussed about the Department Academic plan
Discussion: To conduct Symposium, Conference, Industrial visit, IPT/ Internship, Seminars, Socio Technical Projects, Workshops, FDP, Conduct of theory and Practical classes, Remedial classes. Internship, Placement Training, Coaching for Competitive Exams, Semester preparatory Courses, Bridge Courses, Add on courses, Elective courses, phase I projects for M.Tech, Conduct classes for B.Tech (PT) and M.Tech (PT)
Resolution: Planned the Symposium, Conference, Industrial visit, IPT/ Internship, Seminars, Technical Projects, Workshops, FDP, Conduct of theory and Practical classes, Remedial classes. Internship, Placement Training, Coaching for Competitive Exams, Semester preparatory Courses, Bridge Courses, Add on courses, Elective courses, for the students.

The chairman of Board of Studies (BOS) thanked all the members for their active participation and cordially invited them for the next meeting

Date: 24.06.2023

Head of the Department
Department of Civil Engineering,
Ponnaiyah Ramajayam Institute of
Science & Technology (Prist);
(Institution Deemed to be University,
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THANJAVUR - 613 403, TAMILNADU

Signature
(BOS Chairman Name)

BOS Chairman/HOD Seal

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Syllabus Revision

Board: Civil

Semester IV:

Course Code/Name:

Unit	Existing	Changes
I	UNIT I FUNDAMENTALS OF CONVENTIONAL SURVEYING 9 Definition – Classifications – Basic principles – Equipment and accessories for ranging and chaining – Methods of ranging – Well conditioned triangles – Chain traversing – Compass – Basic principles – Types – Bearing – System and conversions – Sources of errors and Local attraction – Magnetic declination – Dip – compass traversing – Plane table and its accessories – Merits and demerits – Radiation – Intersection – Resection – Plane table traversing.	NIL
II	UNIT II LEVELLING Level line – Horizontal line – Datum – Benchmarks – Levels and staves – Temporary and permanent adjustments – Methods of leveling – Fly leveling – Check leveling – Procedure in leveling – Booking – Reduction – Curvature and refraction – Reciprocal leveling – Precise leveling - Contouring.	NIL
III	UNIT III THEODOLITE SURVEYING Horizontal and vertical angle measurements – Temporary and permanent adjustments – Heights and distances – Tacheometric surveying – Stadia Tacheometry – Tangential Tacheometry – Trigonometric leveling – Single Plane method – Double Plane method	Horizontal and vertical angle measurements – Temporary and permanent adjustments – Heights and distances – Tacheometric surveying – Stadia Tacheometry – Tangential Tacheometry – Trigonometric leveling – Single Plane method – Double Plane method- Tacheometry problems
IV	UNIT IV CONTROL SURVEYING AND ADJUSTMENT Horizontal and vertical control – Methods – Triangulation – Traversing – Gale's table – Trilateration – Concepts of measurements and errors – Error propagation and Linearization – Adjustment methods - Least square methods – Angles, lengths and levelling network.	NIL



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V	<p>UNIT V MODERN SURVEYING Total Station: Digital Theodolite, EDM, Electronic field book – Advantages – Parts and accessories – Working principle – Observables – Errors - COGO functions – Field procedure and applications. GPS: Advantages – System components – Signal structure – Selective availability and anti-spoofing receiver components and antenna – Planning and data acquisition – Data processing – Errors in GPS – Field procedure and applications.</p>	<p>UNIT V MODERN SURVEYING Total Station: Digital Theodolite, EDM, Electronic field book – Advantages – Parts and accessories – Working principle – Observables – Errors - COGO functions – Field procedure and applications. GPS: Advantages – System components – Signal structure – Selective availability and anti-spoofing receiver components and antenna – Planning and data acquisition – Data processing – Errors in GPS – Field procedure and applications- Introduction to GIS</p>
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PERCENTAGE OF SYLLAUS REVISED:10%
COURSES FOCUSES ON:

✓	Skill development	✓	Entrepreneurial development
✓	Employability		Professional Ethics
	Gender Sensitization		Human Values
	Social Awareness/Environment		Environment and Sustainability
	Intellectual Property Rights		

R. Deey
Head of the Department
Department of Civil Engineering
Ponnaiyah Ramajayam Institute of
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ATTENDANCE OF THE BOARD OF STUDIES MEETING

Board: CIVIL

Date: 15-05-2024 Time: 10.30 am

Venue: Gallery Hall, 'A' Block

The following members were present for the Board of Studies meeting

S.No.	Name/Degree/Designation	Institute/Organization/ Fulladdress	Online/ Physical	Signature
1	Dr.Ashutosh Das/ Professor/Civil	Prist University	Physical	<i>Ashy</i>
2	Mr.P.Vadivel/M.tech/ Divisional Engineer	Highways department, Trichy	Physical	<i>P. Vadivel</i>
3	Mrs.V.Ramya/ M.tech/Assistant Professor	Government college of Engineering, Thanjavur	Physical	<i>V. Ramy</i>
4	Dr.IraiKarkuzhali	Prist University	Physical	<i>Dr. Irai</i>
5	Dr.P.Paramaguru	Prist University	Physical	<i>P. Param</i>
6	Dr.R.Siva Samundy	Prist University	Physical	<i>R. Siva</i>
7	D.Amal Colins	Prist University	Physical	<i>Amal</i>
8	S.Ramakrishnan	Prist University	Physical	<i>S. Ram</i>
9	D.Jeyakumar	Prist University	Physical	<i>D. Jey</i>
10	A.Belciya Mary	Prist University	Physical	<i>A. Belciya</i>
11	K.Shanthi	Prist University	Physical	<i>K. Shanthi</i>
12	R.Devi	Prist University	Physical	<i>R. Devi</i>
13	P.Venkateswaran	Prist University	Physical	<i>P. Venk</i>
14	S.Ravishankar	Prist University	Physical	<i>S. Ravish</i>
15	M.Karpagam	Prist University	Physical	<i>M. Kar</i>
16	T.Vidhudhalai	Prist University	Physical	<i>T. Vidhu</i>
17	S.Vennila	Prist University	Physical	<i>S. Venni</i>

R. Sreej

Head of the Department

Department of Civil Engineering
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SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

BOARD OF STUDIES MEETING (BOS)
Academic year: 2023-2024
Date: 24.06.2023

Industrial Expert: MR. P. Vadivel,
Divisional Engineer,
Highways Department,
Tamil Nadu

Academic Expert: Mrs. V. Ramya

GPS Map Camera

Vallam Pudursethi, Tamil Nadu, India
C Block, Road A, Vallam Pudursethi, Tamil Nadu 613401, India
Lat 10.720773°
Long 79.043826°
24/06/23 11:52 AM GMT +05:30

GPS Map Camera

Vallam Pudursethi, Tamil Nadu, India
C Block, Road A, Vallam Pudursethi, Tamil Nadu 613401, India
Lat 10.720951°
Long 79.043382°
24/06/23 11:50 AM GMT +05:30

R. Deevy
Head of the Department
Department of Civil Engineering,
Ponnaiyah Ramajayam Institute of
Science & Technology (Prist)
(Institution Deemed to be University
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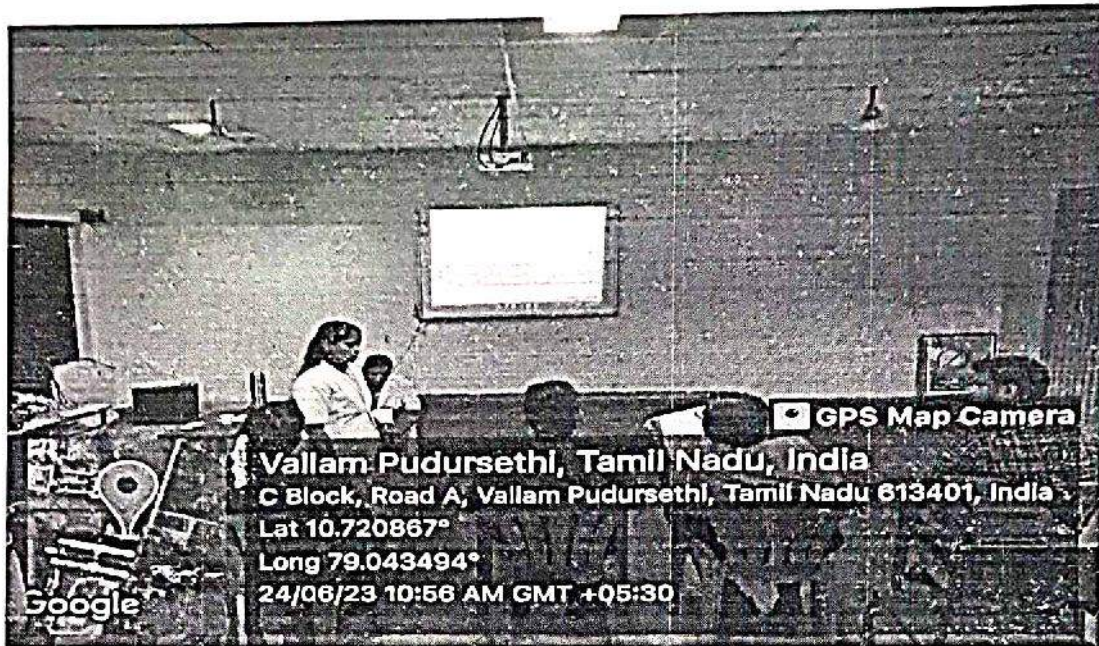
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R. Deevy
Head of the Department
Department of Civil Engineering
Ponnaiyah Ramajayam Institute of
Science & Technology (Prist)
(Institution Deemed to be University
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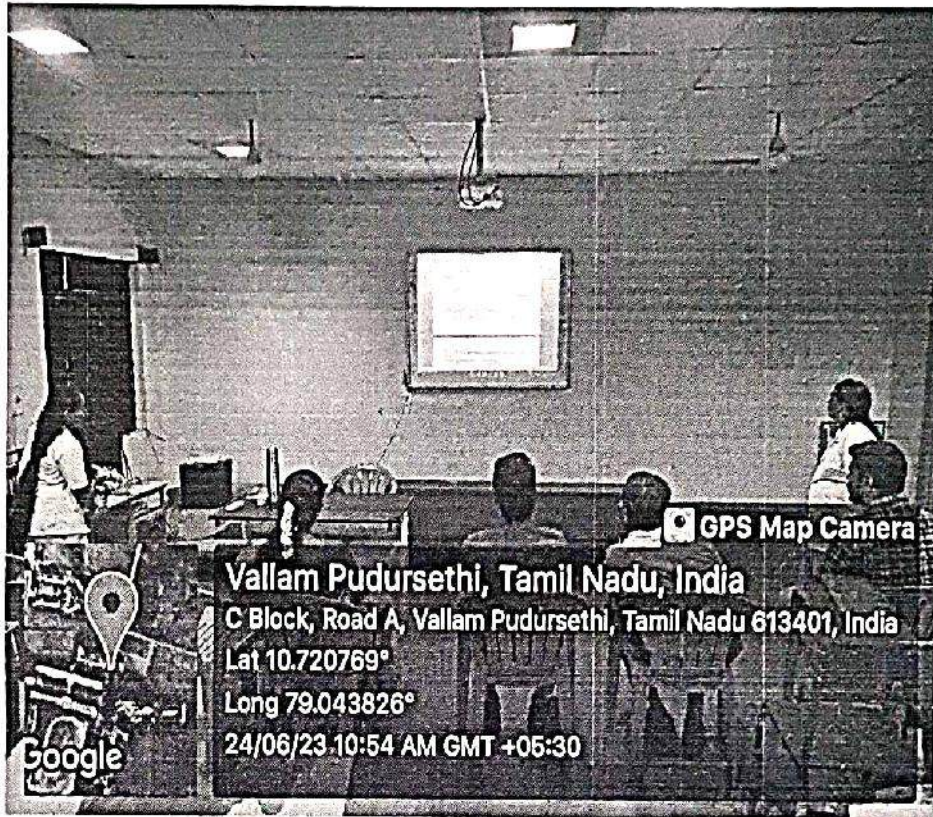
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R. Deey
Head of the Department
Department of Civil Engineering
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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

MINUTES OF THE MEETING OF THE BOARD OF STUDIES (BOS)*

Board: Mechanical Engineering

The Meeting of Board of Studies (BOS) was held as given below:

Name of the Body	Board of Studies
Department	Mechanical Engineering
Meeting no	16
Date and Time	22.06.2023 & 10.00 A.M
Venue	Seminar Hall (C BLOCK)
Members Attended	The details are given in the ANNEXURE-I

AGENDA

1	Confirmation of the previous Meeting Minutes.
2	Action taken on the previous Meeting Minutes.
3	Discussion on syllabi for B.Tech.-Full time / Part time.
4	Discussion on syllabi for M.Tech.-Full time / Part time.
5	Discussion on Value Added Certificate Courses.
6	Discussion on Coaching for Competitive Exams & Higher Education.
7	Discussion on NPTEL Course.
8	Discussion on Indian Knowledge System (IKS) Course.
9	Discussion on Extension Activity for 2023-2024 Academic Year.
10	Discussion on Internship.
11	Discussion on Mandatory Course.
12	Any other matter.



MINUTES OF THE BOARD OF STUDIES MEETING

Board: Mechanical

The Chairman of BOS welcomed all the panel members for the meeting. The item listed in the agenda was taken for discussion.

The following are the minutes of the meeting

Agendum 1 : Confirmation of the previous Meeting Minutes.

Discussion : The previous Meeting Minutes circulated, among all the member, where read out and highlight discussed. The action taken where informed to the members.

Resolution : The Board approved the same.

Agendum 2 : Action taken on the previous Meeting Minutes.

Discussion : The feedback from various stake holders such as Employers, Alumni, Academicians, Industrial Personnel, Students, etc., are also discussed.

Resolution : The Board unanimously approved.

Agendum 3 : Discussion on syllabi for B.Tech. -Full time / Part time.

(details enclosure in annexure-II)

Discussion : B.Tech. - Full time (4 years)

B.Tech. - Part time (3.5 years)

No Change in Curriculum and syllabi.

Resolution : The Board approved the syllabus.

Agendum 4 : Discussion on syllabi for M.Tech. -Full time / Part time.

(details enclosure annexure-III)

Discussion : M.Tech. - Full time (2 years)

M.Tech. - Part time (3 years)

No Change in Curriculum and syllabi.

Resolution : The Board approved the syllabus.

Agendum 5 : Discussion on Value Added Certificate Courses.

Discussion : Courses must be developed in a range of subjects across natural sciences, social sciences, humanities, engineering, medicine, agriculture, community knowledge systems, fine and performing arts, vocational skills etc, which have IKS content.

Feedback from board member on the following five value added certificate courses was discussed.



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1. Piping technology
2. Quality assurance, six sigma and lean manufacturing
3. Marine construction and welding
4. Automation in agriculture
5. Geometric dimensioning and tolerancing

Resolution : The Board approved the offering of value added certificate courses.

Agendum 6 : Discussion on Coaching for Competitive Exams & Higher Education.

Discussion : The board member discussed and recommended the TNPSC,SSC & GATE -2024 etc..

Resolution : The Board approved the same.

Agendum 7 : Discussion on NPTEL Course.

Discussion : Students will be motivated to enroll for NPTEL course .

Resolution : The Board approved the same.

Agendum 8 : Discussion on Indian Knowledge System (IKS) Course.

Discussion : A field visit to nearby IKS related prominent places such as Temples, Gurukuls, Historical sites, Arts & Crafts communities, Ayurvedic Healing Centers, Astronomical Observatories (Jantar Mantar) would enable teachers to appreciate the various manifestations of IKS should be organized. It was desired for Field visit to Historical temple once in a year.

Resolution : The Board unanimously approved.

Agendum 9 : Discussion on Extension Activity for 2023-2024 Academic Year.

Discussion : Students encouraged to participate in NSS/RC/Yoga/Sports and certificate to be awarded for each extension activity.

Resolution : The Board approved the same.

Agendum 10 : Discussion on Internship.

Discussion : The professors in renowned university like IIT,NIT adopted research internship. This popularized among students and encourages to participate in such Research Internship.

Resolution : The Board approved the same.

Agendum 11 : Discussion on Mandatory Course. (details enclosure annexure-II)

Discussion : The board member discussed the Mandatory Course I & II as online course also.

Resolution : The Board approved the same.



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Agendum 12 : Any other matter

Discussion : The board member discussed about the nomination of examiner for evaluation of practical and theory university examination.

Resolution : The Board approved Panel of Examiners.

The chairman of Board of Studies (BOS) thanked all the members for their active participation.

Date: 22.06.2023

Signature

(*[Handwritten Signature]*.....)

BOS Chairman/HOD Seal

HOD

Department of Mechanical Engineering
Ponnaiyah Ramajayam Institute of
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THANJAVUR - 613 403, TAMIL NADU.



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ATTENDANCE OF THE SIXTEENTH BOARD OF STUDIES MEETING

Board : Mechanical Engineering

Date : 22.06.2023

Time : 10.00 A.M

Venue : Seminar Hall (C BLOCK)

The following members were present for the Board of Studies meeting

S.No.	Name/Degree/Designation	Institute/Organization/ Full address	Online/ Physical	Signature (scan, if online)
1.	Dr S Dhanuskodi / Chairman	PRIST Deemed to be University, Thanjavur	Physical	
2.	Dr. C.Sathiya Narayanan / Head of the Department - Production Engineering	NIT, TRICHY	physical	C. Sathiya Narayanan
3.	Er.S.Marimuthu / Deputy Manger	Stock verification Wing,BHEL Trichy	Physical	
4.	Dr V YALINI / Professor	PRIST Deemed to be University, Thanjavur	Physical	
5.	R TAMIZH SELVAN / Associate Professor	PRIST Deemed to be University, Thanjavur	Physical	
6.	P VIJAYAKUMAR / Associate Professor	PRIST Deemed to be University, Thanjavur	Physical	
7.	M SUDHAKAR / Assistant Professor	PRIST Deemed to be University, Thanjavur	Physical	
8.	K PURUSHOTHAMAN / Assistant Professor	PRIST Deemed to be University, Thanjavur	physical	
9.	Vivek / Managing Director- Alumni	Addvisewise Education Consultancy ,Thanjavur	Physical	
10.	E DIVIJ SHANOON / Student Representatives	PRIST Deemed to be University, Thanjavur	physical	E. divij shanoon
11.	K.A.BALAMURUGAN / Student Representatives	PRIST Deemed to be University, Thanjavur	Physical	
12.	M.VARADHARAJAN / Co-opted member (Language - English)	PRIST Deemed to be University, Thanjavur	physical	
13.	SMITA ELSE PETER / Co-opted member (Allied)	PRIST Deemed to be University, Thanjavur	physical	

Date : 22.06.2023

.....
BOS Chairman/HOD
Seal

HOD
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