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THANJAVUR – 613 403 - TAMIL NADU

TOTAL NUMBER OF COURSES HAVING FOCUS ON EMPLOYABILITY/ ENTREPRENEURSHIP/ SKILL DEVELOPMENT OFFERED BY THE UNIVERSITY DURING THE YEAR

DEPARTMENT OF LIFE SCIENCE

Name of the Course	Course Code	Year of introduction	Activities/Content with direct bearing on Employability/Entrepreneurship/Skill development
BIOCHEMISTRY			
Cell Biology and Genetics	20115AEC33	2015	
molecular biology	17215DSC15B–	2015	
biomolecules	20115AEC13	2015	
immunology	17215DSC15B–	2015	
BIOTECHNOLOGY			
cell and tissue CULTURE	20117AEC52	2015	
IMMUNOLOGY	20217DSC15A	2015	
MOLECULAR BIOLOGY	20117AEC44	2015	
APPLIED BIOTECHNOLOGY	20117SEC62	2015	
PLANT AND ANIMAL BIOTECHNOLOGY	20117AEC61	2015	
BIOINFORMATICS AND BIOSTASTISTICS	20117DSC54B		ONE DAY Lecture on ""REVOLUTION IN STRUCTURAL BIOLOGY " September 26th 2020 . Dr. CHANDRASEKARAN PRABAHARAN, Research Associate Laboratory of Protein Structure International Institute of
MICROBIOLOGY			
MOLECULAR BIOLOGY	20116AEC52	2015	
IMMUNOLOGY	20116AEC33	2015	

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School of Art's and Science,
Department of Life Science.
ORGANIZES .
LECTURE on
"REVOLUTION IN STRUCTURAL BIOLOGY "

Certificate of Appreciation

Dr. CHANDRASEKARAN PRABAHARAN,

Research Associate Laboratory of Protein Structure International Institute of Molecular and Cell Biology in Warsaw, 4 Ks. Trojdena St, 02-109 Warsaw has Presented the ONE DAY Lecture on "**REVOLUTION IN STRUCTURAL BIOLOGY** " ORGANIZED BY **DEPARTMENT OF Life Science** on September 26th 2020 at **PRIST DEEMED TO BE UNIVERSITY, VALLAM, THANJAVUR, TAMILNADU.**

Dr. Bakrudeen Aai Ahmed — HOD
Dr L Chinnappa — DEAN
Dr.S.Udayakumar — Registrar

HOD

DEPARTMENT OF MATHEMATICS

Name of the Course	Course Code	Year of introduction	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development
Differential Calculus and Vector Differentiation	20112AEC13	2015	1.Guest Lecture on "Mathematics - An effective approach" 2.Webinar on "Diophantine Equation of Pellian Type" organized
Trigonometry, Analytical Geometry 3 D and Calculus	20112AEC14	2015	
Programming in C	20120AEC15	2015	
Integral calculus and Differential Equations	20112AEC23	2015	
Vector Integration and classical algebra	20112AEC24	2015	
Web Programming	20120AEC20	2015	
Number Theory	20112AEC33	2015	
Numerical Analysis	2012AEC34	2015	
Mathematical Statistics I	20118AEC35	2015	
Mathematical Statistics II	20118AEC36	2015	
Sequence and Series	20112AEC43	2015	
Operations Research	20112SEC44	2015	
Astronomy	20112sEC45	2015	

Mathematical Statistics III	20118AEC46	2015
Modern Algebra	20112AEC51	2015
Real Analysis	20112AEC52	2015
Statics	20112SEC53	2015
Programming in C++	20112SEC54	2015
Fuzzy Analysis	20112DSC55	2015
Complex Analysis	20112AEC61	2015
Dynamics	20112SEC62	2015
Discrete Mathematics	20112AEC63	2015
Graph Theory	20112DSC65	2015
Indian Constitution	**201ACLSICN**	2020
Universal Human Values	**201ACLSUHV**	2020
Communication Skills	**201ACLSCOS**	2020
Basic Behavioral Etiquette	**201ACSSBBE**	2020
Office Automation	**201ACLSOAN**	2020
Leadership and Management Skills	201ACLSLMS	2020
General Aptitude and Quantitative Ability	201ACSSAQA	2020
Professional Skills	201ACLSPSL	2020
Interview Skills Training and Mock Test	201ACSSIST	2020
Community Engagement	201ACLSCET	2020

Research and Publication Ethics	CPE_RPE(Common Paper)	2020	

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SCHOOL OF ARTS AND SCIENCE,
DEPARTMENT OF *MATHEMATICS.*

ORGANIZES

LECTURE

ON

"Mathematics - An effective approach"

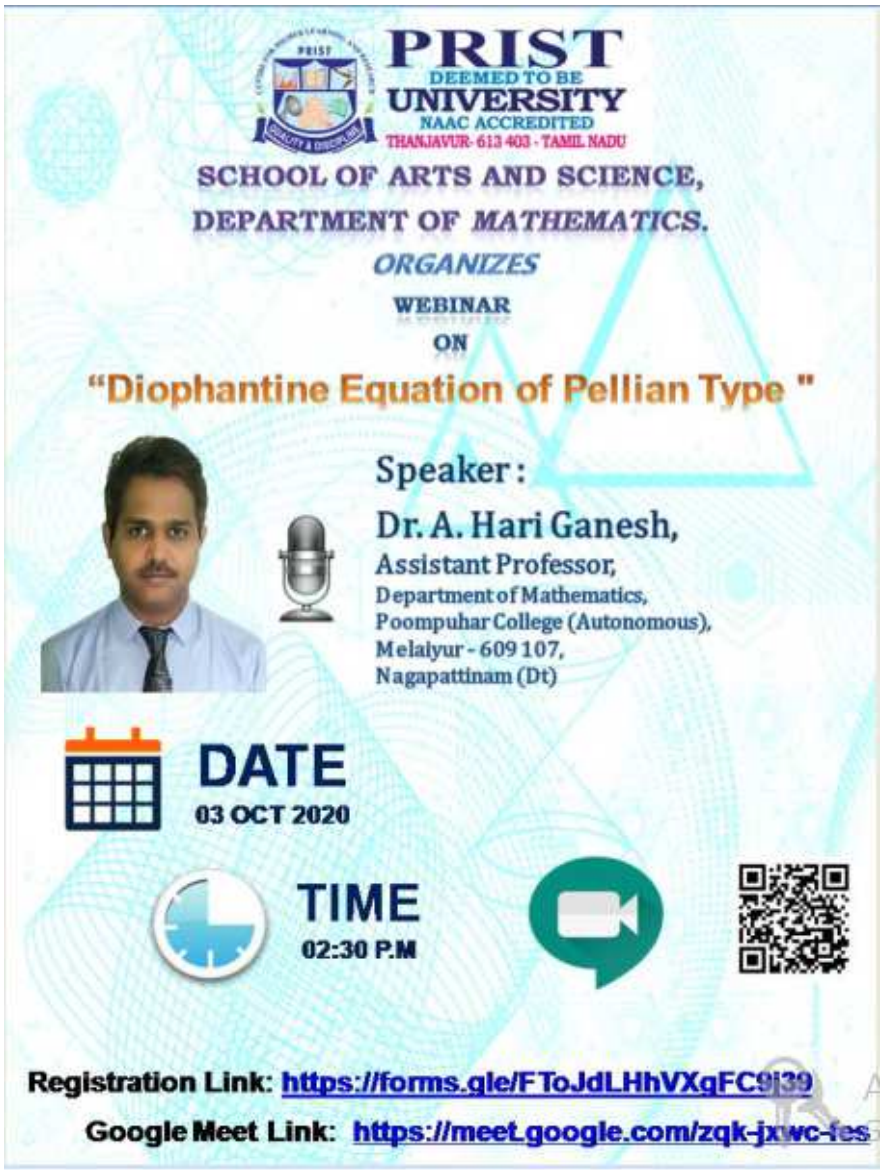
Speaker :

Dr.J.Arivukkarasu
Head & Associate Professor,
Department of Mathematics,
Vivekanandha College of Technology
for Women, Tiruchengode, Namakkal.

DATE
07 OCT 2020

TIME
02:30 P.M

https://meet.google.com/xha-pcux-ixi



HOD/MATHS

HOD

SCHOOL OF COMMERCE & MANAGEMENT

Name of the Course	Course Code	Name of the Programme	Activities/Content with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of Introduction
Business Economics	20161SEC14	B.Com	CASHLESS ECONOMY- AN INDIAN PERSPECTIVE	2008
Banking Theory Law and practice	20161SEC34	B.Com	Common Eligibilty Test for Banking/ SSC/Railways- 2021 "One Nation One Exam"	2008
Essential of Business Communication	20161AEC36	**B.Com**	**Skill development**	2008
Office Management	20161AEC46	**B.Com**	**Employability**	2008
Basic Accounting	20161SEC13	**B.Com**	**Skill development**	2008
Human Resource Management	20261SEC12	B.Com	Entrepreneurship	2008
Ethics in Business	20161SEC24	**B.Com**	**Skill development**	**2017**
Business Law For Managers	20161AEC35	**B.Com**	**Skill development**	**2017**
E-Commerce	20122GEC	**B.Com**	**Skill development**	**2017**
Information Technology	20198AEC15	B.Com CA	Skill Development/**Employability**	**2017**
Operating System	20198AEC16	B.Com CA	Entrepreneurship/**Employability**	**2017**
Programming in C	20198AEC25	B.Com CA	Skill Development/**Employability**	**2017**

Visual Basic Programming	20198AEC45	B.Com CA	Skill Development/**Employability**	**2017**
Software Engineering	20198SEC54	B.Com CA	Entrepreneurship	**2017**
Project Planning and Control	20261SEC31	**M.Com**	**Employability**	**2017**
International Marketing	20261DSC34B	**M.Com**	**Employability**	**2017**
Customer Relationship and Management	20261DSC44A	**M.Com**	**Employability**	**2017**

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SCHOOL OF COMMERCE AND BUSINESS MANAGEMENT

Department of Commerce

ORGANIZES

GUEST LECTURE ON

'CASHLESS ECONOMY - AN INDIAN PERSPECTIVE'

Resource Person :

Dr. G.T. VIJAYALAKSHMI, Ph.D

Assistant Professor & Head,
PG and Research Department of Commerce,
Rabiammal Ahamed Maideen College for Women,
Thiruvarur.

DATE
30 Sep 2020

TIME
02:00 P.M

https://meet.google.com/kkv-nfvm-pgo

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Webinar on

Common Eligibility Test for Banking/SSC/Railways-2021 One Nation One exam".

DATE : 29.10.2020 , TIME : 2.00PM - 3.00PM

Organized by

Department of Commere and Business Management
PRIST Deemed to be University
Thanjavur campus

Resource Person

Mr.S.Rajasekaran. B.Tech (AC Tech, Anna University) MBA (BIM).
Founder of Kings Banking Academy.

https://teams.microsoft.com/l/message/19:c27dbc89621b48ce8f91d21dc673942e@thread.tacv2/1603868743668?tenantId=191b1214-bb5e-4b10-bedf-623c63c527d5&groupId=8d4f5585-7274-44f0-80f3-69b3d7def794&parentMessageId=1603868743668&teamName=WEBINAR%2029.10.20&channelName=General&createdTime=1603868743668

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Courses having focus on employability/ entrepreneurship/ skill development

Addition of Skill Based Course

S. No.	Title of the module	Credits
1	Production Technology for Bioagents and Biofertilizer	0+10
2	Seed Production and Technology	0+10
3	Mushroom Cultivatiuon Technology	0+10
4	Soil, Plant, Water and Seed Testing	0+10
5	Commercial Beekeeping	0+10
6	Poultry Production Technology	0+10
7	Commercial Horticulture	0+10
8	Floriculture and Landscaping	0+10
9	Food Processing	0+10
10	Agriculture Waste Management	0+10
11	Organic Production Technology	0+10
12	Commercial Sericulture	0+10

Introduction of employability, entrepreneur (Assured Course)

Employability:

S. No.	Course Title	Credits
1	18 AGR 201- Crop Production Technology - I (Kharif Crops)	1+1
2	18 HOR 201- Production Technology for Vegetables and Spices	1+1
3	18 AGR 204- Crop Production Technology - II (Rabi Crops)	1+1
4	18 ERG 211- Renewable Energy and Green Technology	1+1
5	18 HOR 202- Production Technology for Fruit and Plantation Crops	1+1
6	18 HOR 301- Production Technology for Ornamental Crops, MAP and Landscaping	2+1
7	18 HOR 302- Post Harvest Management and Value Addition of Fruits and Vegetable	1+1

Entrepreneur:

S. No.	Course Title	Credits
1	18 AMP 201- Livestock and Poultry Management	2+1
2	18 AEC 202- Agricultural Marketing, Trade and Prices	2+1
3	18 PCA 301 - Protected Cultivation and Secondary Agriculture	1+1
4	18 AEX 301- Entrepreneurship Development and Business Communication	1+1

Head of the Department **Dean/ School of Agriculture**

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Courses having focus on employability/ entrepreneurship/ skill development

S. No	Name of the courses	Course code	Name of the Programme	Activities with direct bearing on employability/ entrepreneurship/ skill development		Year of introduction
				Objective	Outcome	
Employability						
1	Crop Production Technology - I (Kharif Crops)	18 AGR 201	B.Sc., (Hons) Agriculture	To study about the package practices of cereals, millets, pulses, oil seeds, fiber and forage crops.	Students acquire knowledge about the nursery, field preparation, sowing, irrigation and fertilizer management of kharif season crops.	2018
2	Production Technology for Vegetables and Spices	18 HOR 201	B.Sc., (Hons) Agriculture	To learn about the production technology of tropical and temperate vegetables and major spices.	Students gain knowledge about the crop production techniques of vegetables and major spices.	2018
3	Crop Production Technology - II (Rabi Crops)	18 AGR 204	B.Sc., (Hons) Agriculture	To know about the package and practices of sugar crops, fibre crops, forage crops, green manure crops and norcatics	Students acquire knowledge about the nursery, field preparation, sowing, irrigation and fertilizer management of rabi season crops.	2018

4	Renewable Energy and Green Technology	18 ERG 211	B.Sc., (Hons) Agriculture	To study about the renewable energy sources, production methods and its applications.	Students obtain knowledge about the renewable energy sources like bio fuel and biomass production, solar pump.	2018
5	Production Technology for Fruit and Plantation Crops	18 HOR 202	B.Sc., (Hons) Agriculture	To gain about the production technology of Fruit and Plantation Crops.	Students learn knowledge about the crop production techniques of Fruit and Plantation Crops	2018
6	Production Technology for Ornamental Crops, MAP and Landscaping	18 HOR 301	B.Sc., (Hons) Agriculture	To learn about the production technology of Ornamental Crops and Landscaping.	Students obtain knowledge about the crop production techniques of Ornamental Crops and Landscaping.	2018
7	Post-Harvest Management and Value Addition of Fruits and Vegetable	18 HOR 302	B.Sc., (Hons) Agriculture	To obtain knowledge about Post-Harvest Management and Value Addition of Fruits and Vegetable	Students learn about the Post-Harvest Management and Value Addition of Fruits and Vegetable	2018
Entrepreneurship						
1	Livestock and Poultry Management	18 AMP 201	B.Sc., (Hons) Agriculture	To study about the dairy, sheep, goat, pig, poultry, food and fodder management.	Students acquire knowledge on managements of poultry, sheep, goat, pig and dairy.	2018

2	Agricultural Marketing Trade & Prices	18 AEC 202	B.Sc., (Hons) Agriculture.	To learn about the concepts of agricultural marketing, market structure, demand supply, and marketing channels, international trade and globalization.	Students gain about the globalization, market structure, demand supply, marketing channels.	2018
3	Entrepreneurship Development and Business Communication	18 AEX 301	B.Sc., (Hons) Agriculture	To learn about the entrepreneurship development programmes, SWOT analysis, entrepreneurship skills.	Students obtain knowledge about the venture capital, contract farming, joint ventures and public private partnerships.	2018
4	Protected Cultivation and Secondary Agriculture	18 PCA 301	B.Sc., (Hons) Agriculture	To study about the green house, crops micro environment.	Students learned about the green house, crops micro environment.	
Skill development						
1	Production Technology for Bioagents and Biofertilizer	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about the production technology and use of bio fertilizer in farmers field	Students learned about the production technology and use of bio fertilizer in farmers field	2018
2	Seed Production and Technology	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about the technology of seed production and new varieties.	Students learned about the technology of seed production and new varieties.	2018
3	Mushroom Cultivatiuon Technology	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about mushroom cultivation marketing	Students learned about mushroom cultivation marketing	2018

4	Soil, Plant, Water and Seed Testing	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about relationship between soil plant and water, various seed testing.	Students learned about relationship between soil plant and water, various seed testing.	2018
5	Commercial Beekeeping	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about scope, importance and technologies of commercial bee keeping	Students learned about scope, importance and technologies of commercial bee keeping	2018
6	Poultry Production Technology	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about the poultry, food and fodder management.	Students acquire knowledge on managements of dairy.	2018
7	Commercial Horticulture	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about scope, importance and production of commercial vegetables, flowers.	Students learned about scope, importance and production of commercial vegetables, flowers.	2018
8	Floriculture and Landscaping	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about scope, importance and production of flowers and ornamental crops.	Students learned about scope, importance and production of flowers and ornamental crops.	2018
9	Food Processing	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about the importance and technologies of food processing, values added process and packaging technologies	Students learned about the importance and technologies of food processing, values added process and packaging technologies.	2018

10	Agriculture Waste Management	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about the effective management and recycling of agricultural waste.	Students learned about the effective management and recycling of agricultural waste.	2018
11	Organic Production Technology	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about scope, importance of organic farming and production of organic crops.	Students learned about scope, importance of organic farming and production of organic crops.	2018
12	Commercial Sericulture	18 EXP 401 & 18 EXP 402	B.Sc., (Hons) Agriculture	To study about the production technologies of mulberry and silk worm.	Students learned about the production technologies of mulberry and silk worm.	2018

Head of the Department
Agriculture

Dean/ School of

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DEPARTMENT OF CIVIL ENGINEERING

NAME OF THE SCHOOL: ENGINEERING &TECHNOLOGY

DEPARTMENT: CIVIL

Mapping Of Courses to Employability/Entrepreneurship and Skill Development

Programme Name & Code	Course Code	Title Of The Course	Course Outcomes	Employability/Entrepreneurship And other Skills							
B.Tech – CIVIL ENGINEERING – FULL TIME (2020R)											
BTECH & 20UGCVLFT	20155C32	Engineering Geology	• Will be able to understand the importance of geological knowledge such as earth, earthquake, volcanism and the action of various geological agencies. • Will get basics knowledge on properties of minerals.			✓					
BTECH & 20UGCVLFT	20155C33	Construction Materials	• Understand the importance of modern material for construction.			✓					
BTECH & 20UGCVLFT	20155C36	Surveying	• The use of various surveying instruments and mapping • Measuring Horizontal angle and vertical angle using different instruments • Methods of Levelling and setting Levels with different instruments					✓			

BTECH & 20UGCVLFT	20155C37	Surveying Laboratory	• Students completing this course would have acquired practical knowledge on handling basic survey instruments including Theodolite,Tacheometry, Total Station and GPS and have adequate knowledge to carryout Triangulation and Astronomical surveying including general field marking for various engineering projects and Location of site etc.					✓			
BTECH & 20UGCVLFT	20155L39	Interpersonal Skills / Listening and Speaking	• Listen and respond appropriately. • Participate in group discussions • Make effective presentations • Participate confidently and appropriately in conversations both formal and informal	✓						✓	

BTECH & 20UGCVLFT	20155C42	Construction Techniques & Practice	• know the different construction techniques and structural systems • Understand various techniques and practices on masonry construction, flooring, and roofing. • Plan the requirements for substructure construction.					✓			✓
BTECH & 20UGCVLFT	20155C45	Concrete Technology	• The various requirements of cement, aggregates and water for making concrete • The effect of admixtures on properties of concrete • The concept and procedure of mix design as per IS method			✓	✓	✓	✓		
BTECH & 20UGCVLFT	20155C46	Soil Mechanics	• Classify the soil and assess the engineering properties, based on index properties. • Understand the stress concepts in soils • Understand and identify the settlement in soils. • Determine the shear strength of soil			✓					✓

BTECH & 20UGCVLFT	20155L47	Strength of Materials Lab	• The students will have the required knowledge in the area of testing of materials and components of structural elements experimentally.			✓			✓		
BTECH & 20UGCVLFT	20147L49	Advanced Reading & Writing	• Write different types of essays. • Write winning job applications. • Read and evaluate texts critically.	✓						✓	
BTECH & 20UGCVLFT	20155C51	Design of Reinforced Concrete Elements	• Understand the various design methodologies for the design of RC elements. • Know the analysis and design of flanged beams by limit state method and sign of beams for shear, bond and torsion. • design the various types of slabs and staircase by limit state method. • Design columns for axial, uniaxial and biaxial eccentric loadings. • Design of footing by limit state method.				✓		✓		✓

BTECH & 20UGCVLFT	20155C53	Water Supply Engineering	• An insight into the structure of drinking water supply systems, including water transport, treatment and distribution • The knowledge in various unit operations and processes in water treatment • An ability to design the various functional units in water treatment					✓	✓		
BTECH & 20UGCVLFT	20155E55E	Total Station and GPS Surveying	• Working principles of total station and GPS instruments • Propagation of EMR through atmosphere and corrections for its effects • The functioning various types total station and GPS equipments and their applications • Various techniques available for surveying and mapping with total station and GPS. Skill Development					✓	✓		

BTECH & 20UGCVLFT	20155C56	Foundation Engineering	• Understand the site investigation, methods and sampling. • Get knowledge on bearing capacity and testing methods. • Design shallow footings. • Determine the load carrying capacity, settlement of pile foundation. • Determine the earth pressure on retaining walls and analysis for stability.			✓	✓		✓		
BTECH & 20UGCVLFT	20155L57	Water & Waste Water Analysis Lab	• Quantify the pollutant concentration in water and wastewater • Suggest the type of treatment required and amount of dosage required for the treatment • Examine the conditions for the growth of micro-organisms					✓			✓

BTECH & 20UGCVLFT	20155C61	Design of Steel Structural Elements	• Understand the concepts of various design philosophies • Design common bolted and welded connections for steel structures • Design tension members and understand the effect of shear lag. • Understand the design concept of axially loaded columns and column base connections					✓			
BTECH & 20UGCVLFT	20155C63	Irrigation Engineering	• Have knowledge and skills on crop water requirements. • Understand the methods and management of irrigation. • Gain knowledge on types of Impounding structures • Understand methods of irrigation including canal irrigation. • Get knowledge on water management on optimization of water use.					✓	✓		

BTECH & 20UGCVLFT	20155C71	Estimation , Costing & Valuation Engineering	• Estimate the quantities for buildings, • Rate Analysis for all Building works, canals, and Roads and Cost Estimate. • Understand types of specifications, principles for report preparation, tender notices types. • Gain knowledge on types of contracts • Evaluate valuation for building and land.		✓	✓				✓	

BTECH & 20UGCVLFT	20155C73	Structural Design & Drawing	• Design and draw reinforced concrete Cantilever and Counter fort Retaining Walls • Design and draw flat slab as per code provisions • Design and draw reinforced concrete and steel bridges • Design and draw reinforced concrete and steel water tanks • Design and detail the various steel trusses and gantry girders	✓	✓					✓	
BTECH & 20UGCVLFT	20160E75I	Total quality management	• The student would be able to apply the tools and techniques of quality management to manufacturing and services processes.						✓		
BTECH & 20UGCVLFT	20155E82A	Computer aided design of structures	• Understand the concepts of Computer-Aided Design, Software requirements and Hardware components in CAD system. • Acquire the knowledge in Computer Graphics and Computer aided drafting using CAD software.					✓			

M.Tech – STRUCTURAL ENGINEERING – FULL TIME 2020R											
MTECH & 20PGSTEFT	20255H12	Quality Control & Assurance in Construction	• Understand the fundamentals of quality management for a project-based industry. • Demonstrate knowledge of the theories, principles and processes in quality management. • Apply quality management best practice in construction in terms of both processes and attitudes.			✓		✓			
MTECH & 20PGSTEFT	20255H15	Maintenance and Rehabilitation of Structures	• Suggest maintenance and repair strategies . • examine the durability due to various climate conditions. • suggest the suitable materials and techniques for repair. • choose various rehabilitation and retrofitting techniques. • select suitable demolition techniques for structures.					✓			

MTECH & 20PGSTEFT	20255E16C	Computer Aided Structural Design	• The students will be able to draft the plan, elevation and sectional views of the buildings, industrial structures, and framed buildings using computer software's.		✓						
MTECH & 20PGSTEFT	20255L17	Auto CAD Lab	• The students will be able to draft the plan, elevation and sectional views of the buildings, industrial structures, and framed buildings using computer software's.					✓			
MTECH & 20PGSTEFT	20255H21	Management Information System	• Recognize contemporary MIS theory and how information systems support business strategy, business processes, and practical applications in an organization. 2. Interrelate how various support systems can be used for business decisions and to sustain competitive advantage			✓					✓

MTECH & 20PGSTEFT	20255H23	Advanced Concrete Structural Design	• Use the knowledge of the structural properties of materials i.e. steel and concrete in assessing the strength.					✓			
MTECH & 20PGSTEFT	20255H23	Advanced Concrete Technology	• Discuss the concrete ingredients and its influence at gaining strength. • Design of concrete mix and grade as per IS codes. • light weight etc. • Describe the application and use of fiber reinforced concrete.					✓			
MTECH & 20PGSTEFT	20255H31	Advanced Steel Structures	• Students who successfully complete this course will be able to: 1. Identify and compute the design loads on a typical steel building			✓		✓			

MTECH & 20PGSTEFT	20255E34A	Offshore Structures	• At the end of the course, students will be able to understand the basic theoretical concepts in offshore engineering and apply them to actual problems. • They will be able to calculate wave forces on fixed and floating structures and calculate the dynamic response.			✓		✓			
MTECH & 20PGSTEFT	20255E33A	Prefabricated Structures	• Classify the components of prefabricated • Design of disuniting structures • Analyze the joints in structural detailing of prefabricated • Refer the codal provisions for abnormal load of prefabricated structure				✓	✓			
MTECH & 20PGSTEFT	20255L26	ANSYS Lab	• An ability to apply knowledge of mathematics, science, and engineering to problem solving.					✓			

MTECH & 20PGSTEFT	20255CRS	Research Led Seminar	• To understand the approaches towards and constraints in good research. • To identify various statistical tools used in research methodology • To appreciate and compose the manuscript for publication • To train in basic computational and excel- skills for research in engineering.						✓	✓	
MTECH & 20PGSTEFT	20255CRM	Research Methodology	• prepare a project proposal (to undertake a project) • organize and conduct research (advanced project) in a more appropriate manner			✓	✓				
B.Tech – CIVIL ENGINEERING – PART TIME 2020R											

BTECH & 20UGCVLPT	20155H14P	Surveying	• The use of various surveying instruments and mapping • Measuring Horizontal angle and vertical angle using different instruments • Methods of Leveling and setting Levels with different instruments		✓			✓			
BTECH & 20PGSTEPT	20155H15P	Irrigation Engineering	• Have knowledge and skills on crop water requirements. • Understand the methods and management of irrigation. • Gain knowledge on types of Impounding structures • Understand methods of irrigation including canal irrigation. • Get knowledge on water management on optimization of water use.			✓			✓		

BTECH & 20PGSTEPT	20155H24P	Concrete Technology	• The various requirements of cement, aggregates and water for making concrete • The effect of admixtures on properties of concrete • The concept and procedure of mix design as per IS method • The properties of concrete at fresh and hardened state • The importance and application of special concretes					✓			
BTECH & 20PGSTEPT	20155L65P	Design of Reinforced concrete Structures-I	• Understand the various design methodologies for the design of RC elements. • Know the analysis and design of flanged beams by limit state method and sign of beams for shear, bond and torsion. • design the various types of slabs and staircase by limit state method. • Design columns for axial, uniaxial and biaxial eccentric loadings. • Design of footing by limit state method.		✓			✓			

BTECH & 20PGSTEPT	20155H34P	Construction Materials & Practices	• know the different construction techniques and structural systems • Understand various techniques and practices on masonry construction, flooring, and roofing. • Plan the requirements for substructure construction. • Know the methods and techniques involved in the construction of various types of super structures • Select, maintain and operate hand and power tools and equipment used in the building construction sites.			✓		✓			✓

BTECH & 20PGSTEPT	20155H51P	Design of Steel Structures	• Understand the concepts of various design philosophies • Design common bolted and welded connections for steel structures • Design tension members and understand the effect of shear lag. • Understand the design concept of axially loaded columns and column base connections. • Understand specific problems related to the design of laterally restrained and unrestrained steel beams.					✓			
BTECH & 20PGSTEPT	20155H52P	Foundation Engineering	• Understand the site investigation, methods and sampling. • Get knowledge on bearing capacity and testing methods. • Design shallow footings. • Determine the load carrying capacity, settlement of pile foundation. • Determine the earth pressure on retaining walls and analysis for stability.			✓		✓			✓

BTECH & 20PGSTEPT	20155H53P	Industrial Waste Management	• An insight into the pollution from major industries including the sources and characteristics of pollutants • Ability to plan minimization of industrial wastes • Ability to design facilities for the processing and reclamation of industrial waste water			✓		✓			
BTECH & 20PGSTEPT	20155H61P	Estimation & Cost Evaluation	• Estimate the quantities for buildings, • Rate Analysis for all Building works, canals, and Roads and Cost Estimate. • Understand types of specifications, principles for report preparation, tender notices types. • Gain knowledge on types of contracts • Evaluate valuation for building and land.				✓		✓		

BTECH & 20PGSTEPT	20155E64CP	Airport & Harbors	• On completing the course, the students will have the ability to Plan and Design various civil Engineering aspects of Railways, Airports and Harbour.					✓			
BTECH & 20PGSTEPT	20155L55P	Computer Aided Building Drawing Laboratory	• The students will be able to draft the plan, elevation and sectional views of the buildings, industrial structures, and framed buildings using computer softwares					✓			
M.Tech – STRUCTURAL ENGINEERING – PART TIME (2020R)											
MTECH & 20PGSTEPT	20255H12P	Quality Control & Assurance in Constructio n	• Understand the fundamentals of quality management for a project-based industry. • Demonstrate kno wledge of the theories, principles and processes in quality management. • Apply quality management best practice in constru ction in terms of both processes and attitudes.				✓	✓			

MTECH & 20PGSTEPT	20255H32P	Maintenance and Rehabilitation of Structures	• Suggest maintenance and repair strategies . • examine the durability due to various climate conditions. • suggest the suitable materials and techniques for repair. • choose various rehabilitation and retrofitting techniques. • select suitable demolition techniques for structures.					✓			
MTECH & 20PGSTEPT	20255E33CP	Computer Aided Structural Design	• The students will be able to draft the plan, elevation and sectional views of the buildings, industrial structures, and framed buildings using computer software's.		✓						
MTECH & 20PGSTEPT	20255L14P	Computer Programming Lab	• The students will be able to draft the plan, elevation and sectional views of the buildings, industrial structures, and framed buildings using computer software's.					✓			

MTECH & 20PGSTEPT	20255H21P	Management Information System	• Recognize contemporary MIS theory and how information systems support business strategy, business processes, and practical applications in an organization. 2. Interrelate how various support systems can be used for business decisions and to sustain competitive advantage			✓					✓
MTECH & 20PGSTEPT	20255H41P	Advanced Concrete Structural Design	• Use the knowledge of the structural properties of materials i.e. steel and concrete in assessing the strength.					✓			

MTECH & 20PGSTEPT	20255E23BP	Advanced Concrete Technology	• Discuss the concrete ingredients and its influence at gaining strength. • Design of concrete mix and grade as per IS codes. • light weight etc. • Describe the application and use of fiber reinforced concrete.					✓			
MTECH & 20PGSTEPT	20255H42P	Advanced Steel Structures	• Students who successfully complete this course will be able to: 1. Identify and compute the design loads on a typical steel building			✓		✓			
MTECH & 20PGSTEPT	20255E54AP	Offshore Structures	• At the end of the course, students will be able to understand the basic theoretical concepts in offshore engineering and apply them to actual problems. • They will be able to calculate wave forces on fixed and floating structures and calculate the dynamic response.					✓			

MTECH & 20PGSTEPT	20255E52AP	Prefabricated Structures	• Classify the components of prefabricated • Design of disuniting structures • Analyze the joints in structural detailing of prefabricated • Refer the codal provisions for abnormal load of prefabricated structure				✓				
MTECH & 20PGSTEPT	20255L24P	ANSYS Lab	• An ability to apply knowledge of mathematics, science, and engineering to problem solving.				✓				

MTECH & 20PGSTEPT	20255CRS	Research Led Seminar	• To understand the approaches towards and constraints in good research. • To identify various statistical tools used in research methodology • To appreciate and compose the manuscript for publication • To train in basic computational and excel- skills for research in engineering.					✓			
MTECH & 20PGSTEPT	20255CRM	Research Methodology	• prepare a project proposal (to undertake a project) • organize and conduct research (advanced project) in a more appropriate manner					✓			

HOD/CIVIL