PRIST
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UNIVERSITY
NAAC ACCREDITED
THANJAVUR – 613 403 - TAMILNADU

DEPARTMENT OF COMPUTER SCIENCE
B.Sc. Computer Science

S.No	Programme Name	PO and CO
1.	B.Sc. Computer Science	Yes
2.	M.Sc. Computer Science	Yes
3.	M.Phil. Computer Science	Yes
4.	BCA	Yes
5.	MCA	Yes

PROGRAMME OUTCOMES	
PO1	Understand dynamic memory allocation and pointers.
PO2	Trace the flow of information from one node to another node in the network.
PO3	Understand the format and use of objects.
PO4	Able to Measure the product and process performance using various metrics
PO5	Design Secure applications.
PO6	Apply the various optimization techniques.
PROGRAM SPECIFIC OUTCOME	
PSO1	Understand the impact of the professional solutions in societal and environmental Contexts, and demonstrate the knowledge of, and need for sustainable development.
PSO2	Apply problem-solving skills and the knowledge of computer science to solve real world problems.
PSO3	Use software development tools, software systems, and modern computing platforms

PSO4	Communicate computer science concepts, designs, and solutions effectively and professionally
PROGRAM EDUCATIONAL OBJECTIVES	
PEO1	To study about I/O management, storage management
PEO2	To know the methods of connecting them to the peripheral devices.
PEO3	To learn Software design and Implementation
PEO4	To learn the basic principles of database and database design
PEO5	To understand computational development of graphics with mathematics

Sem	Course code	Course title	CO's	PO1	PO2	PO3	PO4	PO5	PO6
I	17110AEC11	Tamil- I	Learn the changes occurred in literature since classical period.	*		*	*	*	
			Obtaining More information about one'sculture and tradition	*	*		*	*	*
			Encourage creative writing and developing self-confidence.	*	*	*		*	*

	17132AEC11	**Hindi-I**	Enables other state students to continue their learning phase without any disruptions.		*	*	*		*
			Through this language the can learn spirituality.	*	*	*		*	*
			Students can learn social discrimination		*	*	*		*
			Students can learn grammar techniques	*	*	*		*	*
	17111AEC11	**Advanced English-I**	Academic skills in preparation for tertiary study.	*	*	*		*	*
			Presentation and participation skills.	*		*	*	*	
			Learning strategies and research skills	*	*	*	*	*	*
			Academic essay and report writing skills	*		*	*	*	
	17135AEC11	**French-I**	Focus on all four modalities of the language: speaking, listening, reading and writing	*		*	*	*	
			As well as knowledge of Francophone cultures and the skills of collaboration and critical thinking	*	*		*	*	*
			Students can compare and contrast cultural practices as they relate to French and American culture.	*	*	*		*	*
	17111AEC12Z	**English-I**	Focus on all four modalities of the language: speaking, listening, reading and writing		*	*	*		*

			As well as knowledge of Francophone cultures and the skills of collaboration and critical thinking	*	*	*		*	*
			Students can compare and contrast cultural practices as they relate to French and American culture.	*	*		*	*	*
			Improves their proficiency in English language.	*	*		*	*	*
			Develops functional communicative aspect of language through a series of real life tasks	*	*		*	*	*
	17120SEC13	**Programming in C with C++**	To understand the principles of Python and aquire skills in programming in python To develop the emerging applications of relevant field using Python	*		*	*	*	
			Interpret the fundamental Python syntax and semantics and be fluent in the use of Python control flow statements.	*	*	*		*	*
	17112AEC15B	**CLASSICAL ALGIBRA**	Understand the theory of, and be able to solve problems in Caylee Hamilton Theorem, and finding the Eigen values & Eigen vectors	*	*	*		*	*
			Able to manipulate relation between root and coefficients, symmetric functions of the roots	*	*	*	*	*	*

			in terms of the coefficients and transformation of equation						
			be able to calculate summation related to Binomial,	*		*	*	*	
			be able to calculate summation related to Binomial, Exponential and Logarithmic series	*	*		*	*	*
	17112AEC16B	**Numerical And Statistical Methods**	Apply numerical methods to find the solution ofalgebraic equations using different me thod and numerical	*	*	*		*	*
			Apply various interpolation methods and finite difference concepts.	*		*	*	*	
			Work out numerical differentiation and integration whenever and wherever routine methods are not applicable.	*	*		*	*	*
			Solve a differential equation using an appropriate numerical method	*	*	*		*	*
	17120SEC13L	**Programming in C with C++ Lab**	To implement the python programming features in practical applications		*	*	*		*
			To implement Python programs with conditionals and loops	*	*	*		*	*

			Represent compound data using Python lists, tuples, dictionaries, turtles, Files and modules		*	*	*		*
			Use functions for structuring Python programs.	*	*	*		*	*
	19120SEC01AL	**Packages Lab-I**	To make the students understand about the Democratic Rule and Parliamentarian administration.	*	*	*		*	*
			To appreciate the salient features of the Indian Constitution	*		*	*	*	
	171 SEC01	**Soft Skill-I**	Learn the functions of union and State Governments	*	*	*	*	*	*
			Learn the power and functions of the Judiciary	*		*	*	*	
	17111SEC01L	**Communicative English Lab-I**	Know about universal human values and understand the importance of values in individual, social circles, career path, and national life.	*		*	*	*	
			From case studies of lives of great and successful people who followed and practiced human values and achieved self-actualization.	*	*		*	*	*
			Realize their potential as human beings and conduct themselves properly in the ways of the world.	*	*	*		*	*

	171INDCONS	**Indian Constitution**	Democratic values and citizenship Training are gained.		*	*	*		*
			Awareness on Fundamental Rights are established	*	*	*		*	*
			Learn the functions of union and State Governments	*	*		*	*	*
			Learn the power and functions of the Judiciary	*	*		*	*	*
		Tamil- II	Know what devotion really is.Know the fruitfulness obtained through devotion	*	*		*	*	*
			Perceive the progress achieved in the society through devotion	*		*	*	*	
			Obtaining More information about one'sculture and tradition	*	*	*		*	*
			Encourage creative writing and developing self-confidence.	*	*	*		*	*
			Aiming at enriching human excellence	*	*	*	*	*	*
	17132AEC21	**Hindi-II**	Enables other state students to continue their learning phase without any disruptions	*		*	*	*	

			Through this language the can learn spirituality Students can learn grammar techniques. Enables them to enhance their language skills. Enables them to develop creative writing.	*	*		*	*	*
			Students can learn social discrimination.D18	*	*	*		*	*
	17111AEC21	**Advanced English-II**	Communicate effectively in most daily practical and social situations at both concrete and abstract levels	*		*	*	*	
			Participate in formal and informal conversations involving problem solving and decision making	*	*		*	*	*
			Speak on familiar concrete topics at a descriptive level and present a detailed analysis or comparison	*	*	*		*	*
			Demonstrate an increased ability to respond appropriately to the formality level of a social interaction		*	*	*		*
	17135AEC21	**French-II**	Focus on all four modalities of the language: speaking, listening, reading and writing.	*	*	*		*	*

			As well as knowledge of Francophone cultures and the skills of collaboration and critical thinking.		*	*	*		*
			Students can compare and contrast cultural practices as they relate to French and American culture	*	*	*		*	*
	17111AEC22	**English-II**	Read and appreciate literature	*	*	*		*	*
			Know more about Mahatma Gandhi, Mother Teresa, and Martin Luther King.	*		*	*	*	
			Describe Daffodils, beauty of Byron‘s Maid,Painful account of apple- pickers	*	*	*	*	*	*
			Understand the basic Grammar, and Spoken English. Ability to write composition, letter and vocabulary	*		*	*	*	
			Gain vocabulary through reading. Acquire fluency in English language.	*		*	*	*	
	17120SEC23	**Internet and Java Programming**	To understand the core principles of the Java Language	*	*		*	*	*
			To study about Graphics programming using java Language	*	*	*		*	*
	17112AEC25B	**Discrete Mathematics**	Students completing this course will be able to express a logic sentence in terms of		*	*	*		*

			predicates, quantifiers, and logical connectives						
	17112AEC26B	**Operations Research**	Identify and develop operational research models from the verbal description of the real system	*	*	*		*	*
			Use mathematical software to solve the proposed models.	*	*		*	*	*
			Develop a report that describes the model And the solving technique, analyses the results and propose recommendations in language	*	*		*	*	*
			Understand variety of problems such as assignment, transportation, travelling salesman etc.	*	*		*	*	*
	17120SEC24L	**Internet and Java Programming Lab**	Implement the concept of data structures through ADT including List, Stack, and Queues.	*		*	*	*	
			create a full set of UI widgets and other components, including windows, menus, buttons, checkboxes, text fields, scrollbars and scrolling lists, using Abstract Windowing Toolkit (AWT) & Swings	*	*	*		*	*

			apply event handling on AWT and Swing components	*	*	*		*	*
			Learn to access database through Java programs, using Java Data Base Connectivity (JDBC)	*	*	*	*	*	*
	17120RLC27	**Research Led Seminar**	Communication skills are and what they can do to improve their abilities. Understand role of communication in teaching-learning process	*		*	*	*	
	171 SEC02	**Skill based Elective –II**	Follow main ideas, key words, and important details in an authentic 2-3 page text on a familiar and partially predictable topic.	*		*	*	*	
			Read in English for information, to learn the language and to develop reading skills.	*	*		*	*	*
	17111SEC02L	**Communicative English Lab-II**	Improves comprehension and retention. Develop speaking and writing skills	*	*	*		*	*
			Builds confidence in handling English language. Develops ideas with coherence and cohesion.		*	*	*		*
	IIII 17110AEC31	**Tamil-III**	Achieve one's goal by following the ancestral path. Obtaining More information about one's culture and tradition;	*	*	*		*	*

			They will expose themselves into many question and answer session in research stations through which they can mould themselves for their better subject knowledge.		*	*	*		*
	17132AEC3	**Hindi-III**	Enables other state students to continue their learning phase without any disruptions.	*	*	*		*	*
			Through this language they can learn spirituality.	*	*	*		*	*
			Students can learn social discrimination.D18.	*		*	*	*	
	17111AEC31	**Advanced English-III**	Follow main ideas, key words, and important details in an authentic 2-3 page text on a familiar and partially predictable topic.	*	*	*	*	*	*
			Read in English for information, to learn the language and to develop reading skills.	*		*	*	*	
			Write coherent paragraphs on familiar topics with clear main ideas and some supporting details. Develop a sense of audience.	*		*	*	*	
	17135AEC31	**French-III**	Focus on all four modalities of the language: speaking, listening, reading and writing.	*	*		*	*	*

			As well as knowledge of Francophone cultures and the skills of collaboration and critical thinking.	*	*	*		*	*
			Students can compare and contrast cultural practices as they relate to French and American culture.		*	*	*		*
			Students can demonstrate critical thinking and Collaborative problem-solving through advanced task-based language activities.	*	*	*		*	*
	17111AEC32	**English-III**	Gain vocabulary through reading. Acquire fluency in English language	*	*		*	*	*
			Understand the basic Grammar, and Spoken English. Ability to write composition, letter and vocabulary	*	*		*	*	*
			Describe Daffodils, beauty of Byron‘s Maid, painful account of apple- pickers	*	*		*	*	*
			Understand the basic Grammar, and Spoken English. Ability to write composition, letter and vocabulary	*		*	*	*	
	17120SEC33	**Visual Programming**	Students list the visual programming concepts. Explain basic concepts and	*	*	*		*	*

			definitions. Express constants and arithmetic operations.						
			· The students can learn in selection of suitable farm equipment for tillage to harvest based on field and crop conditions.	*	*	*		*	*
			· The students can able to estimate the cost of farm equipment operation, coverage and power requirements	*	*	*	*	*	*
			· Students prepare various projects by helping visual programming.	*		*	*	*	
	17120SEC34L	**Visual Programming Lab**	Cognitive abilities and skills relating to solution of problems in Physics and Physics Related Disciplines	*	*		*	*	*
			Practical skills relating to the conduct of laboratory and industrial work in General skills relating to non-subject specific competencies, communication, ICT knowledge, interpersonal, organization skills and ethical standards.	*	*	*		*	*

	17113AEC35A	**Applied physics –I**	To understand arithmetic operations Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP	*		*	*	*	
			To understand string and matrix operations	*	*		*	*	*
	17113AEC36AL	**Applied physics Lab-I**	An ability to apply knowledge of mathematics, science, and engineering. Graduates should transform knowledge of mathematics, Physics, chemistry, Engineering Mechanics, probability and statistics, and engineering drawing in solving a wide range of civil engineering problems.	*	*	*		*	*
			An ability to design, implement, evaluate a system and conduct experiments, as well as to analyze and interpret data. Graduates should show that they can make decisions regarding type, and number of data points to be collected, duration of the experiment		*	*	*		*
			data points to be collected, duration of the experiment to obtain intended results, and demonstrate an understanding of accuracy and precision of data	*	*	*		*	*

			An ability to design, implement and evaluate a system, or process to meet desired needs Graduates should be able to identify the project goal;		*	*	*		*
III	**17120RMC37**	**Research Methodology**	Students who complete this course will be able to understand and comprehend the basics in research methodology and applying them in research/ project work.	*	*	*		*	*
			This course will help them to select an appropriate research design.	*	*	*		*	*
			The course will also enable them to collect the data, edit it properly and analyses it accordingly. Thus, it will facilitate students' prosperity in higher education.	*		*	*	*	
			With the help of this course, students will be able to take up and implement a research project/ study.	*	*	*	*	*	*
	171 SEC03	**Skill based Elective –III**	Recognize when to use each of the Microsoft Office programs to create professional and academic documents.	*		*	*	*	
			Use Microsoft Office programs to create personal, academic and business documents	*		*	*	*	

			following current professional and/or industry standards.						
	17111SEC03L	**Communicative English Lab-III**	Learns to analyze unfamiliar words by understanding the structure of the English language.	*	*		*	*	*
IV	**17110AEC41**	**Tamil-IV**	Realize how the ancient people changed their life style according to the ages	*	*	*		*	*
			Learn how to change one's lifestyle according to the needs of the future		*	*	*		*
			Obtaining More information about one's culture and tradition; Encourage creative writing and developing self-confidence.	*	*	*		*	*
	17132AEC41	**Hindi-IV**	Enables other state students to continue their learning phase without any disruptions.	*	*		*	*	*
			Through this language they can learn spirituality.	*	*		*	*	*
			Students can learn social discrimination.D18.	*	*		*	*	*
	17111AEC41	**Advanced English-IV**	Make oral presentations effectively for academic purposes by using appropriate discourse markers, transitions and conjunctions.	*		*	*	*	

			Respond to spoken discourse in their content courses and academic presentations.	*	*	*		*	*
			Follow oral instructions, identify details, and evaluate the speakers' viewpoints and attitudes	*	*	*		*	*
	17135AEC41	**French-IV**	Focus on all four modalities of the language: speaking, listening, reading and writing. As well as knowledge of Francophone cultures and the skills of collaboration and critical	*	*	*	*	*	*
			Students can compare and contrast cultural practices as they relate to French and American culture.	*		*	*	*	
	17111AEC42	**English-IV**	Know about genius of Shakespeare, Martin Luther King, Mahatma Gandhi, and Mother Teresa.	*	*		*	*	*
			Describe Daffodils, beauty of Byron's Maid, Painful account of apple- pickers.	*	*	*		*	*
			Understand the basic Grammar, and Spoken English. Ability to write composition, letter and vocabulary	*		*	*	*	
	17120SEC43	**Active Server Programming**	Learners will be able to design web applications using ASP.NET	*	*		*	*	*

			Learners will be able to use ASP.NET controls in web applications	*	*	*		*	*
	17120SEC44L	**Active Server Programming Lab**	Write Visual Basic programs using object-oriented programming techniques including classes, objects, methods, instance variables, composition, and inheritance, and polymorphism		*	*	*		*
			Create one and two dimensional arrays for sorting, calculating and displaying of data.	*	*	*		*	*
	17113AEC45A	**Applied physics –II**	Effectively use and critically evaluate current technical/scientific research literature, online information, as well as information related to scientific issues in the mass media		*	*	*		*
			Integrate and relate scientific knowledge learned from classroom with real life situations.	*	*	*		*	*
			Students acquire knowledge about the plant and host relationship and their management	*	*	*		*	*
			They get knowledge about the integrated management of plant diseases and pest.	*		*	*	*	

	17113AEC46AL	**Applied physics Lab –II**	Effectively use and critically evaluate current technical/scientific research literature, online information, as well as information related to scientific issues in the mass media	*	*	*	*	*	*
			Integrate and relate scientific knowledge learned from classroom with real life situations.	*		*	*	*	
	171 SEC04	**Skill based Elective –IV**	Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.	*		*	*	*	
			Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.	*	*		*	*	*
			Demonstrate proficiency in quantitative methods, qualitative analysis, critical thinking, and written and oral communication needed to conduct high- level work as interdisciplinary scholars and/or practitioners.	*	*	*		*	*
			Analyze the ecosystem and able to understand the different types of pollutions in country. Learn about environmental pollution.		*	*	*		*

	17111SEC03L	**Communicative English Lab-IV**	Learners will be able to design web applications using ASP.NET	*	*	*		*	*
			Learners will be able to create database driven ASP.NET web applications and web servicesdemonstrate advanced knowledge of programming for network communications	*	*		*	*	*
	171ENVTSTU	**Environmental Studies**	Effectively use and critically evaluate current technical/scientific research literature, online information, as well as information related to scientific issues in the mass media	*	*		*	*	*
			Integrate and relate scientific knowledge learned from classroom with real life situations.	*	*		*	*	*
V	**17120SEC51**	**Data Communication and Networking**	Help students to develop essential skills to influence and motivate others	*		*	*	*	
			Nurture a creative and entrepreneurial mindset	*	*	*		*	*
			Make students understand the personal values and apply ethical principles in professional	*	*	*		*	*
	17120SEC52	**Operating System**	Identify the components required to build different types of networks.	*	*	*	*	*	*

			Another node. Identify the components required to build different types of networks	*		*	*	*	
			· Learning all farm activities field management and to gain maximum knowledge about crops of a particular season	*	*		*	*	*
	17120SEC53	**Microprocessor and its Applications**	Design various Scheduling algorithms.	*	*	*		*	*
			Compare and contrast various memory management schemes.	*		*	*	*	
			Design and Implement a prototype file systems.	*	*		*	*	*
	17120SEC54L	**Microprocessor Lab**	Design and implement programs on 8086 microprocessor.	*	*	*		*	*
			Design and implement 8051 microcontroller based systems		*	*	*		*
	17120SEC55L	**Operating System Lab**	Identify the architecture, infrastructure and delivery models of cloud computing	*	*	*		*	*
			Address the core issues of cloud computing such as security, privacy and interoperability		*	*	*		*

			The students will be able to undertake commercial cultivation of flower crop, medicinal and aromatic plants.	*	*	*		*	*
			· Students will gain knowledge to establish different type's garden in various locations.	*	*	*		*	*
	17120DSC56A	**Cloud Computing**	Understand Distributed systems design and implementation	*		*	*	*	
			Use Middleware to Build Distributed Applications	*	*	*	*	*	*
	17120BRC57	**Participation in Bounded Research**	Design and implement programs on 8085 microprocessor.		*	*	*		*
			Design and implement 8051 microcontroller based systems	*	*	*		*	*
			· The student will learn the types of Intellectual Property and legislations covering IPR in India: Patents, Copyrights, Trademark, Industrial design, Geographical indications, Integrated circuits, and Trade secrets.	*	*		*	*	*
	171 SEC05	**Skill Based Elective –V**	Execute the Unix Shell programming on the given system configuration.	*	*		*	*	*

			Studying the concepts and applications of remote sensing and image processing in agriculture	*	*		*	*	*
			Understanding the concepts of nanotechnology	*		*	*	*	
			Students know about the economic and environmental feasibility of the precision farming technology.	*	*	*		*	*
	17111SEC05L	**Communicative English Lab-V**	Prepare their resume in an appropriate template without grammatical and other errors and	*	*	*		*	*
			Actively participate in group discussions towards gainful employment	*	*	*	*	*	*
			Enlist the common errors generally made by candidates in an interview	*		*	*	*	
			Integrate and relate scientific knowledge learned from classroom with real life situations.	*	*	*		*	*

	VI 17120SEC61	**.NET Programming**	Create web-based distributed applications using ASP.NET, SQL Server and ADO.NET	*		*	*	*	
			Utilize DirectX librariesinthe.NET environment to implement 2D and 3DAnimations and game-related graphic displays and audio.	*	*		*	*	*
			Understand the key protocols which supportThe internet.	*	*	*		*	*
	17120SEC62	**Relational Data Base Management System**	Demonstrate the basic elements of a relational database management system.	*	* *	* *	*	*	* *
			Design entity relationship and convert entity relationship diagrams into RDBMS and formulate		*	*	*		*
			summarizationforms and determine data mining functionalities	*	*	*		*	*
			· Students learn to use the natural farm resources produced within the farm	*	*	*		*	*

	17120SEC63L	**.NET Programming Lab**	Assess raw input data, and process it to provide suitable input for a range of data mining algorithms.	*		*	*	*	
			Students will be equipped with management concepts and management of common resources.	*	*	*	*	*	*
			Evaluate and select appropriate data-mining algorithms and apply, and interpret and	*		*	*	*	
	17120SEC64L	**Oracle Lab**	Contrast and compare major elements of the .NET Framework and explain how C# fits into the .NET platform.	*		*	*	*	
			Analyze the basic structure of a C# application and be able to document, debug, compile, and run a simple application.	*	*		*	*	*
			Create methods (functions and subroutines) that can return values and take parameters.	*	*	*		*	*
			Use common statements to implement flow control, looping, and exception handling.		*	*	*		*

	17120DSC56B	**Software Engineering**	Develop mathematical thinking and problem solving skills associated with research and writing proofs.	*	*		*	*	*
			Get exposure to a wide variety of mathematical concepts used in computer science discipline like probability.	*	*	*		*	*
	17120DSC65A	**Data Mining**	Summarization forms and determine data mining functionalities.	*	*	*		*	*
			· They have been familiarized with methods of food preservation and the fundamentals of human Nutrition.	*	*		*	*	*
			Brief knowledge about SQL Fundamentals	*	*		*	*	*
	17120DSC65B	**Artificial Intelligence and Expert System**	Develop mathematical thinking and problem solving skills associated with research and writing proofs.	*	*		*	*	*
			Get exposure to a wide variety of mathematical concepts used in computer science discipline like probability.	*		*	*	*	

			Understand the mathematical fundamentals that are prerequisites for a variety of courses like Data Mining, Network protocols, analysis of Web traffic, Computer security, Bioinformatics and Machine Learning.	*	*	*		*	*
	17111SEC03L	**Communicative English – VI**	To understand and analyses Information security threats & countermeasures	*	*	*		*	*
			To understand penetration and security testing issues	*	*	*	*	*	*
			To understand issues relating to ethical hacking	*		*	*	*	
	17120EXACT	**Extension Activities**	To understand and analyses Information security threats & countermeasures	*	*		*	*	*
			To understand penetration and security testing issues	*	*	*		*	*
			To understand issues relating to ethical hacking	*		*	*	*	
			Develop and maintain problem-solving skills. Use mathematical ideas to model real-world problems	*	*		*	*	*

	17111GEC	**Journalism**	know and demonstrate understanding of the concepts from the five branches of mathematics (Operations Research, Set Theory, statistics, Matrices and Business mathematics)	*	*	*		*	*
			use appropriate mathematical concepts and skills to solve problems in both familiar and unfamiliar situations including those in real-life contexts		*	*	*		*
	17112GEC	**Development of Mathematical Skills**	To use the techniques and skills for electrical projects.	*	*	*		*	*
			Design a system, component or process to meet desired needs in electrical engineering.		*	*	*		*
			Measurement of R,L,C ,Voltage, Current, Power factor , Power, Energy	*	*	*		*	*
	17113GEC	**Instrumentation**	Compare the strengths and limitations of cloud computing	*		*	*	*	
			Identify the architecture, infrastructure and delivery models of cloud computing	*	*	*		*	*
	17114GEC	**Food and Adulteration**	Apply suitable virtualization concept.	*	*	*		*	*

	17117GEC	**Mushroom Technology**	Get an insight into the processes of software development	*		*	*	*	
			Able to understand the problem domain for developing SRS and various models of software	*		*	*	*	
	17161GEC	**Indirect Tax**	Develop Tax multiplication skills To get a job	*	*	*		*	*
			Able to Model software projects into high level design using DFD,UML diagrams	*	*	*	*	*	*
	171SEC06	**Skill Based Elective –VI**	Able to Measure the product and process performance using various metrics	*		*	*	*	
			Able to Evaluate the system with various testing techniques and strategies	*	*		*	*	*
	17120PRW67	**Project Work**	lobal Registered Education Provider Certified and experienced Subject Matter Experts	*	*	*		*	*

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SCHOOL OF ARTS AND SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
BCA

PROGRAMME OUTCOMES	
PO1	Able to design and develop reliable software applications for social needs and Excel in IT enabled services.
PO2	Able to analyze and identify the customer requirements in multidisciplinary domains, create high level design and implement robust software applications using latest technological skills.
PO3	Proficient in successfully designing innovative solutions for solving real life business problems and addressing business development issues with a passion for quality, competency and holistic approach
PO4	Perform professionally with social, cultural and ethical responsibility as an individual as well as in multifaceted teams with positive attitude
PO5	Capable of adapting to new technologies and constantly upgrade their skills with An attitude towards independent and lifelong learning.
PO6	Develop various real time applications using latest technologies and programming languages
PROGRAM SPECIFIC OUTCOME	
PSO1	Professional Skills: Attain the ability to design and develop computer applications, evaluate and recognize potential risks and provide innovative solutions.
PSO2	Successful Career and Entrepreneurship: Explore technical knowledge in diverse areas of Computer Applications and experience an environment conducive in Cultivating skills for successful career, entrepreneurship and higher studies.
PSO3	To formulate and develop mathematical arguments in a logical manner.

PSO4	To acquire good knowledge and understanding in advanced areas of mathematics and statistics, chosen by the student from the given courses.
PSO5	To understand, formulate and use quantitative models arising in social science, Business and other contexts.
PROGRAM EDUCATIONAL OBJECTIVES	
PEO1	Evolve as globally competent computer professionals possessing leadership skills

Sem	Course code	Course title	CO's	PO1	PO2	PO3	PO4	PO5	PO6
I	**17110AEC11**	**Tamil- I**	Learn the changes occurred in literature since classical period.	*		*	*	*	
			Obtaining More information about one's culture and tradition	*	*		*	*	*
			Encourage creative writing and developing self-confidence.	*	*	*		*	*
	17132AEC11	**Hindi-I**	Enables other state students to continue their learning phase without any disruptions.		*	*	*		*

			Through this language they can learn spirituality.	*	*	*		*	*
			Students can learn social discrimination		*	*	*		*
			Students can learn grammar techniques	*	*	*		*	*
	17111AEC1	**Advanced English-I**	Academic skills in preparation for tertiary study.	*	*	*		*	*
			Presentation and participation skills.	*		*	*	*	
			Learning strategies and research skills	*	*	*	*	*	*
			Academic essay and report writing skills	*		*	*	*	

	17135AEC11	**French-I**	Focus on all four modalities of the language: speaking, listening, reading and writing	*		*	*	*	
			As well as knowledge of Francophone cultures and the skills of collaboration and critical thinking	*	*		*	*	*
			Students can compare and contrast cultural practices as they relate to French and American culture.	*	*	*		*	*
			Improves their proficiency in English language.		*	*	*		*
			Develops functional communicative aspect of language through a series of real life tasks	*	*	*		*	*
	17111AEC12	**English-I**	Read and comprehend literature	*	*		*	*	*
			Understand how to lead one's life realizing the modernity and its environment/atmosphere.	*	*		*	*	*

			Improves their proficiency in English language.	*	*		*	*	*
			Develops effective writing skills.	*		*	*	*	
			Develops functional communicative aspect of language through a series of real life tasks.	*	*	*		*	*
	17122SEC13	**Programming in C with C++**	Design C Programs for problems.	*	*	*		*	*
			Able to understand and design the solution to a problem using object-oriented programming concepts.	*	*	*	*	*	*

	17122SEC13L	**Programming in C with C++Lab**	Read understand and trace the execution of programs written in C language.	*		*	*	*	
			Implement programs with pointers and arrays, perform pointer arithmetic, and use the pre-processor.	*	*		*	*	*
	17112AEC15B	**Classical algebra**	Understand the theory of, and be able to solve problems in Caylee Hamilton Theorem, and finding the Eigen values & Eigen vectors	*	*	*		*	*
			Able to manipulate relation between root and coefficients, symmetric functions of the roots in terms of the coefficients and transformation of equation	*		*	*	*	
			be able to calculate summation related to Binomial,	*	*		*	*	*

			be able to calculate summation related to Binomial, Exponential and Logarithmic series	*	*	*		*	*
	17112AEC16B	**Numerical and statistical methods**	Apply numerical methods to find the solution of algebraic equations using diffe rent method and numerical		*	*	*		*
			Apply various interpolation methods and finite difference concepts.	*	*	*		*	*
			Work out numerical differentiati on and integration whenever and wherever routine methods are not applicable.		*	*	*		*

			Solve a differential equation using an appropriate numerical method	*	*	*		*	*
	171SEC01	**Skill Based Elective -I**	Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.	*	*	*		*	*
			Reflect critically about their roles and identities as citizens, consumers and environmental actors in a complex, interconnected world.	*		*	*	*	
			Apply systems concepts and methodologies to analyze and understand interactions between social and environmental processes.	*	*	*	*	*	*

	171INDCONS	**Indian Constitution**	Understand how Constitutions embody certain ideals.	*		*	*	*	
			Learn why there is a need for limits on power in a democratic form of government.	*		*	*	*	
			Understand the difference between monarchy, dictatorship and democracy.	*	*		*	*	*
			Describe the importance of Preamble of the Indian Constitution and its significance.	*	*	*		*	*
	17111SEC01L	**Communicative English Lab-I**	Know about universal human values and understand the importance of		*	*	*		*

			values in individual, social circles, career path, and national life.						
			From case studies of lives of great and successful people who followed and practiced human values and achieved self-actualization.	*	*	*		*	*
			Realize their potential as human beings and conduct themselves properly in the ways of the world.	*	*		*	*	*
II	**117110AEC21**	**Tamil- II**	Know what devotion really is. Know the fruitfulness obtained through devotion	*	*		*	*	*
			Perceive the progress achieved in the society through devotion	*	*		*	*	*

			Obtaining More information about one's culture and tradition	*		*	*	*	
			Encourage creative writing and developing self-confidence.	*	*	*		*	*
			Aiming at enriching human excellence	*	*	*		*	*
	17132AEC21	**Hindi-II**	Enables other state students to continue their learning phase without any disruptions	*	*	*	*	*	*
			Through this language the can learn spirituality Students can learn grammar techniques. Enables them to enhance their language skills.	*		*	*	*	

			Enables them to develop creative writing.						
			Students can learn social discrimination.D18	*	*		*	*	*
	17111AEC21	**Advanced English-II**	Communicate effectively in most daily practical and social situations at both concrete and abstract levels	*	*	*		*	*
			Participate in formal and informal conversations involving problem solving and decision making	*		*	*	*	
			Speak on familiar concrete topics at a descriptive level and present a detailed analysis or comparison	*	*		*	*	*
			Demonstrate an increased ability to respond appropriately to the formality level of a social interaction	*	*	*		*	*

	17135AEC21	**French-II**	Focus on all four modalities of the language: speaking, listening, reading and writing.		*	*	*		*
			As well as knowledge of Francophone cultures and the skills of collaboration and critical thinking.	*	*	*		*	*
			Students can compare and contrast cultural practices as they relate to French and American culture		*	*	*		*
	17111AEC22	**English-II**	Read and appreciate literature	*	*	*		*	*
			Know more about Mahatma Gandhi, Mother Teresa, and Martin Luther King.	*	*	*		*	*

			Describe Daffodils, beauty of Byron‘s Maid, Painful account of apple- pickers	*		*	*	*	
			Understand the basic Grammar, and Spoken English. Ability to write composition, letter and vocabulary	*	*	*	*	*	*
			Gain vocabulary through reading. Acquire fluency in English language.	*		*	*	*	
	17122SEC23	**Data Structure and Algorithms**	Understand development of JAVA applets vs. JAVA applications.	*		*	*	*	
			Understand object inheritance and its use.	*	*		*	*	*
	17122SEC24L	**Data Structure and Algorithms Lab**	To develop software applications using Java programming language.	*	*	*		*	*

			Write modular, multithreading and event driven programming.		*	*	*		*
	17112AEC25B	**Discrete Mathematics**	Students completing this course will be able to express a logic sentence in terms of predicates, quantifiers, and logical connectives	*	*	*		*	*
	17112AEC26B	**Operations Research**	Identify and develop operational research models from the verbal description of the real system	*	*		*	*	*
			Use mathematical software to solve the proposed models.	*	*		*	*	*
			Develop a report that describes the model And the solving technique, analyses the results and propose recommendations in language	*	*		*	*	*

			Understand variety of problems such as assignment, transportation, travelling salesman etc.	*		*	*	*	
	17122RLC27	**Research Led Seminar**	This course provides an experience in leading and participating in a discussion about a scientific paper.	*	*	*		*	*
	171SEC02	**Skill Based Elective-II**	Develop speaking and writing skills .	*	*	*		*	*
			Identifying strengths and weaknesses of contributions and expanding a discussion beyond the paper content.	*	*	*	*	*	*
			Improves their ability to read and spell words through an analysis of structure of the English language.	*		*	*	*	

	17111SEC02L	**Communicative English Lab-II**	Business etiquette training, a key part of soft skills & communication, facilitated by Momentum enlightens participants on the accepted behaviour patterns and manners key to their profession.	* *	* *	*	*	* *	* *
			It emphasises on a set of practices used and accepted in a multi-national work environment. .	*		*	*	*	
	IIII **17110AEC31**	**Tamil-III**	Achieve one's goal by following the ancestral path.	*	*		*	*	*
			They will expose themselves into many question and answer session in research stations through which they	*	*	*		*	*

			can mould themselves for their better subject knowledge.						
	17132AEC31	**Hindi-III**	Enables other state students to continue their learning phase without any disruptions.		*	*	*		*
			Through this language they can learn spirituality.	*	*	*		*	*
			Students can learn social discrimination.D18.		*	*	*		*
	17111AEC31	**Advanced English-III**	Follow main ideas, key words, and important details in an authentic 2-3 page text on a familiar and partially predictable topic.	*	*	*		*	*

			Read in English for information, to learn the language and to develop reading skills.	*	*	*		*	*
			Write coherent paragraphs on familiar topics with clear main ideas and some supporting details. Develop a sense of audience.	*		*	*	*	
	17135AEC31	**French-III**	Focus on all four modalities of the language: speaking, listening, reading and writing.	*	*	*	*	*	*
			As well as knowledge of Francophone cultures and the skills of collaboration and critical thinking.	*		*	*	*	

			Students can compare and contrast cultural practices as they relate to French and American culture.	*		*	*	*	
			Students can demonstrate critical thinking and Collaborative problem-solving through advanced task-based language activities.	*	*		*	*	*
	17111AEC32	**English III**	Understand the basic Grammar, and Spoken English. Ability to write composition, letter and vocabulary.	*	*	*		*	*
			Know more about Mahatma Gandhi, Mother Teresa, Martin Luther King.		*	*	*		*

	17122SEC33	**Internet and Java Programming**	Design, create, build, and debug Visual Basic applications.	*	*	*		*	*
			Explore Visual Basic's Integrated Development Environment (IDE).	*	*		*	*	*
			Write Windows applications using forms, controls, and events	*	*		*	*	*
			Write and apply decision structures for determining different operations.	*	*		*	*	*
	117122SEC34L	**Internet and Java Programming Lab**	Apply arithmetic operations for displaying numeric output.	*		*	*	*	

			Apply decision structures for determining different operations.	*	*	*		*	*
	17161SEC35	**Financial Accounting**	Through this language they can learn spirituality of accounts.	*	*	*		*	*
			Students can learn Financial Statements	*	*	*	*	*	*
	17113AEC36C	**Allied Physics – I**	Demonstrate a working knowledge of the basic concepts and theories of physics.	*		*	*	*	
			Formulate hypotheses and devise and perform experiments to test a hypothesis as individuals and in a team.	*	*		*	*	*

			Cognitive abilities and skills relating to solution of problems in Physics and Physics Related Disciplines						
III	**17122RMC37**	**Research Methodology**	Students who complete this course will be able to understand and comprehend the basics in research methodology and applying them in research/ project work.	*	*	*		*	*
			This course will help them to select an appropriate research design.	*		*	*	*	
			The course will also enable them to collect the data, edit it properly and analyses it accordingly. Thus, it will facilitate students' prosperity in higher education.	*	*		*	*	*

			With the help of this course, students will be able to take up and implement a research project/ study.	*	*	*		*	*
	1171SEC03	**Skill Based Elective –III**	Follow oral instructions, identify details, and evaluate the speakers' viewpoints and attitudes		*	*	*		*
			Focus on all four modalities of the language: speaking, listening, reading and writing. As well as knowledge of Francophone cultures and the skills of collaboration and critical	*	*	*		*	*
	17111SEC03L	**Communicative English Lab-III**	Recognize when to use each of the Microsoft Office programs to create professional and academic documents.		*	*	*		*

			Use Microsoft Office programs to create personal, academic and business documents following current professional and/or industry standards.	*	*	*		*	*
IV	**17110AEC41**	**Tamil-IV**	Realize how the ancient people changed their life style according to the ages	*	*	*		*	*
			Learn how to change one's lifestyle according to the needs of the future	*		*	*	*	
			Obtaining More information about one's culture and tradition;	*	*	*	*	*	*

			Encourage creative writing and developing self-confidence.						
	17132AEC41	**Hindi-IV**	Enables other state students to continue their learning phase without any disruptions.	*		*	*	*	
			Through this language they can learn spirituality.	*		*	*	*	
			Students can learn social discrimination.D18.	*	*		*	*	*
	117111AEC41	**Advanced English-IV**	Make oral presentations effectively for academic purposes by using appropriate discourse markers, transitions and conjunctions.	*	*	*		*	*

			Respond to spoken discourse in their content courses and academic presentations.		*	*	*		*
			Follow oral instructions, identify details, and evaluate the speakers' viewpoints and attitudes	*	*	*		*	*
	17135AEC41	**French-IV**	Focus on all four modalities of the language: speaking, listening, reading and writing. As well as knowledge of Francophone cultures and the skills of collaboration and critical	*	*		*	*	*
			Students can compare and contrast cultural practices as they relate to French and American culture.	*	*		*	*	*

	17111AEC42	**English-IV**	Know about genius of Shakespeare, Martin Luther King, Mahatma Gandhi, and Mother Teresa.	*	*		*	*	*
			Describe Daffodils, beauty of Byron‘s Maid, Painful account of apple- pickers.	*		*	*	*	
			Understand the basic Grammar, and Spoken English. Ability to write composition, letter and vocabulary	*	*	*		*	*
	17122SEC43	**Visual Programming**	Learners will be able to design web applications using ASP.NET	*	*	*		*	*
			Learners will be able to use ASP.NET controls in web applications	*	*	*	*	*	*

	17122SEC44L	**Visual Programming Lab**	Analyze the basic structure of a C# application and be able to document, debug, compile, and run a simple application.	*		*	*	*	
			Integrate and relate scientific knowledge learned from classroom with real life situations.	*	*		*	*	*
			Use common statements to implement flow control, looping, and exception handling.	*	*	*		*	*
			They get knowledge about the integrated management of plant diseases and pest.	*		*	*	*	
	17113AEC45C	**Allied Physics -II**	Demonstrate a working knowledge of the basic concepts and theories of physics.	*	*		*	*	*

			The Applied Physics program will produce intellectually engaged graduates accomplished in application of fundamental physics principles, and prepared for direct entry into the workplace or continuing professional development.	*	*	*		*	*
			Demonstrate a working knowledge of the basic concepts and theories of physics.		*	*	*		*
	17113AEC46CL	**Allied Physics Lab - I**	Integrate and relate scientific knowledge learned from classroom with real life situations.	*	*	*		*	*

			Effectively use and critically evaluate current technical/scientific research literature, online information, as well as information related to scientific issues in the mass media.		*	*	*		*
	17111SEC04L	**Skill Based Elective-IV**		*	*	*		*	*
			Maintain life-long learning in the sciences and incorporate new information into the existing body of knowledge.	*	*	*		*	*
	17111SEC04L	**Communicative English Lab-IV**	Help students to develop essential skills to influence and motivate others	*		*	*	*	

			Nurture a creative and entrepreneurial mindset	*	*	*	*	*	*
			Make students understand the personal values and apply ethical principles in professional	*		*	*	*	
	171ENVTSTU	**Environmental Studies**	The student will be able to • Use their logical thinking and analytical abilities to solve Quantitative aptitude questions from company specific and other competitive tests.	*		*	*	*	
			Effort has been made to accommodate fundamental, mathematical aspects to instill confidence among students.	*	*		*	*	*
			This course consists of practice exercises for Quantitative or Numerical and Verbal Ability.	*	*	*		*	*

			Prepare for Aptitude Tests for Entrance Exams like GATE, CAT, Bank PO, SAT, GMAT, GRE, UPSC and RRB.						
	v 17122SEC51	**Relational Database Management Systems**	Choose the required functionality at each layer for given application		*	*	*		*
			Trace the flow of information from one node to another node in the network	*	*	*		*	*
			Use data communication vocabulary appropriately when discussing issues with other networking professionals.	*	*		*	*	*
	17122SEC52	**.NET Programming**	Compare and contrast various memory management schemes.	*	*		*	*	*

			Design and Implement a prototype file systems.	*	*		*	*	*
	17122SEC53	**Designing and supporting Computer Networks**	Design Memory Interfacing circuits.	*		*	*	*	
			Understand the implementation of Buses	*	*	*		*	*
			Design and implement programs on 8086 microprocessor.	*	*	*		*	*
			Design and implement 8051 microcontroller based systems	*	*	*	*	*	*
	17122SEC54L	**Oracle Lab**	Develop testing and experimental procedures on Microprocessor and	*		*	*	*	

			Microcontroller analyze their operation under different cases.						
			Prepare professional quality textual and computational results, incorporating accepted data analysis and synthesis methods, simulation software, and word-processing tools.	*	*		*	*	*
	17122SEC55L	**.NET Programming Lab**	Use UNIX/Linux command line (shell) commands to navigate and manage the UNIX/Linux file system, customize the user shell environment,	*	*	*		*	*
			Install a Linux operating system with a custom partitioning scheme and log into and out of a UNIX/Linux	*		*	*	*	

			computer system using graphical and command line environments.						
			Use file name globing and regular expressions to find files and text in the system.	*	*		*	*	*
			To Manage user and group accounts and permissions.	*	*	*		*	*
	17122DSC56A	**Computer Organization and Architecture**	Actively participate in group discussions towards gainful employment		*	*	*		*
			Enlist the common errors generally made by candidates in an interview	*	*	*		*	*

	117122BRC57	**Participation in Bounded Research**	To study how it helps to incorporate application portability, distributed application component interoperability and integration.	*		*	*	*	
			Understand Distributed systems design and implementation	*	*	*	*	*	*
			Understand existing Distributed Technologies	*		*	*	*	
			Understand Web services architectures	*		*	*	*	
	171SEC0	**Skill Based Elective-V**	To aim at preparing the students technological competitive and make them ready to	*	*		*	*	*

			self-upgrade with the higher technical skills.						
			Actively participate in group discussions towards gainful employment	*	*	*		*	*
			Enlist the common errors generally made by candidates in an interview		*	*	*		*
	17111SEC05L	**Communicative English Lab-V**	Familiar with how to write a good introduction to an educationa; research study and the components that comprise such an introduction.	*	*	*		*	*
			To understood a general definition of research design	*	*		*	*	*

			.						
			Improves their ability to read and spell words through an analysis of structure of the English language	*	*		*	*	*
			summarizationforms and determine data mining functionalities	*	*		*	*	*
			· Students learn to use the natural farm resources produced within the farm	*		*	*	*	
	vi 17122SEC61	**Advanced Web Technology**	Utilize the .NET environment to create Web Service-based applications and components.	*	*	*		*	*
			Demonstrate advanced knowledge of programming for network communications.	*	*	*		*	*

			Utilize DirectX libraries in the .NET environment to implement 2D and 3D animations and game-related graphic displays and audio.	*	*	*	*	*	*
	17122SEC62	**Operating System**	Apply security concepts to databases.	*		*	*	*	
			Apply concurrency control and recovery mechanisms for practical problems.	*	*		*	*	*
			Use the Relational model, ER diagrams.	*	*	*		*	*
			Design Databases for applications.	*		*	*	*	

	17122SEC63L	**Advanced Web Technology Lab**	Use common statements to implement flow control, looping, and exception handling.	*	*		*	*	*
			Contrast and compare major elements of the .NET Framework and explain how C# fits into the .NET platform.	*	*	*		*	*
			Analyze the basic structure of a C# application and be able to document, debug, compile, and run a simple application.		*	*	*		*
	17122SEC64L	**Operating System Lab**	Unary and Binary table Operations.	*	*	*		*	*
			Handling online Transactions.		*	*	*		*

			Database Connectivity with front-end.	*	*	*		*	*
	17122DSC56B	**Data Mining**	Assess raw input data, and process it to provide suitable input for a range of data mining algorithms.	*	*	*		*	*
			Characterize and discriminate data summarization forms and determine data mining functionalities.	*		*	*	*	
			Evaluate and select appropriate data-mining algorithms and apply, and interpret and report the output appropriately.	*	*	*	*	*	*

	17111SEC05L	**Communicative English Lab-V**	Demonstrate fundamental understanding of the history of artificial intelligence(AI) and its foundation.	*		*	*	*	
			Apply basic principles of aim solutions that require problem solving, inference, perception, knowledge representation, and learning.	*		*	*	*	
			Demonstrate knowledge of the building blocks of AI as presented in terms of intelligent agents.	*	*		*	*	*
			Formalize a given problem in the language/framework of different AI methods.	*	*	*		*	*

VI	**17122SEC61**	**Advanced Web Technology**	Identify the components required to build different types of networks	*	*	*	*	*	
			Choose the required functionality at each layer for given application	*	*	*	*	*	
	17122SEC62	**Operating System**	Identify solution for each functionality at each layer	*	*	*		*	
			Trace the flow of information from one node to another node in the network	*	*	*		*	
			Design arithmetic and logic unit.	*	*		*	*	
	17122SEC63L	**Advanced Web Technology Lab**	Design and anlayse pipelined control units	*		*	*	*	
			Evaluate performance of memory systems.	*	*	*		*	
	17122SEC64L	**Operating System Lab**	Design arithmetic and logic unit.	*	*		*	*	
			Design various Scheduling algorithms.	*	*	*		*	
			Apply the principles of concurrency.	*		*	*	*	
	17122DSC65A	**Software Engineering**	Design deadlock, prevention and avoidance algorithms.	*	*		*	*	

			Compare and contrast various memory management schemes.	*	*		*	*	
	17122DSC65B	**Object Oriented Analysis and Design**	Plan a vulnerability assessment and penetration test for a network.	*	*	*		*	*
			Execute a penetration test using standard hacking tools in an ethical manner.		*	*	*		*
			Report on the strengths and vulnerabilities of the tested network.	*		*	*	*	*
			Identify legal and ethical issues related to vulnerability and penetration testing.	*		*	*	*	*
	17111GEC	**Journalism**	Shall empower themselves by communication, professional and life skills.	*	*	*	*	*	*

			shall have an understanding of acquiring knowledge throughout life.	*	*	*		*	
	17112GEC	**Development of Mathematical Skills**	To impart Information Communication Technologies (ICTs) skills, including digital and media literacy and competencies.	*	*	*		*	*
			To impart the basic knowledge of Mass communication & Journalism and related areas of studies.	*		*	*	*	*
	17113GEC	**Instrumentation**	The students ableto Design and develop GUI applications using Abstract Windowing Toolkit (AWT)	*	*	*		*	*
			Programmer training by creating standardized, reusable modular components and by enabling the tier to handle many aspects of programming automatically.		*	*	*		

	17114GEC	**Food and Adulteration**	Swing and Event Handling	*	*	*	*	*	*
			The students ableto Design and develop GUI applications using Abstract Windowing Toolkit (AWT)	*	*	*	*	*	*
			To prepare socially responsible media academicians, researchers, professionals with global vision	*		*	*	*	
	17117GEC	**Mushroom Technology**	To inculcate professional ethics, values of Indian and global culture.	*	*		*	*	*
			Shall acquire the understanding of importance of cooperation and teamwor	*	*	*		*	*
			To demonstrate an understanding of the history of media and role of professionals in Journalism		*	*	*		*
			The knowledge gained from the course should act as a gateway and	*	*	*		*	*

			navigator to the various branches of mass						
	17161GEC	**Indirect Tax**	Produce students with the thorough knowledge in the need for editing		*	*	*		*
			To attain a theoretical framework of media and also to contextualize the media theories.	*	*	*		*	*
	191SEC06	**Skill Based Elective –VI**	Realize how the ancient people changed their life style according to the ages	*	*	*		*	*
			Obtaining More information about one's culture and tradition;	*		*	*	*	
	19111SEC06L	**Communicative English Lab-VI**	Aiming at enriching human excellence;	*	*	*	*	*	*

			. Select and apply general rules correctly to solve problems including those in real-life contexts. Write and understand basic proofs.	*		*	*	*	
			Develop and maintain problem-solving skills.	*		*	*	*	
			Use mathematical ideas to model real-world problems.	*	*		*	*	*
	19122EXACT	**Extension Activities**	Measurement of R,L,C ,Voltage, Current, Power factor , Power, Energy	*	*	*		*	*
			Ability to balance Bridges to find unknown values.		*	*	*		*

			Ability to use Digital voltmeters	*	*	*		*	*
			Ability to measure strain, displacement, Velocity, Angular Velocity, temperature, Pressure, Vacuum, and Flow.	*	*		*	*	*
	19122PRW67	**Project Work**	Understand, identify and analyze a problem related to food industry and ability to find an appropriate solution for the same.	*	*		*	*	*
			Design, implement and evaluate a research based project to meet demands of the society.	*	*		*	*	*

			Use appropriate techniques, skills, and modern tools in the food industry and in academic profession.						
			Understanding of professional, ethical, legal, security and social issues and responsibilities for entrepreneurship skills.	*		*	*	*	
			Use appropriate techniques, skills, and modern tools in the food industry and in academic profession.	*	*	*		*	*
	19122PEE	**Program Exit Examination**	Understand the factors affecting the need to find sustainable practices for production of food, feed and fiber crops and how to implement them.	*	*	*		*	*

			Competent in basic forest management principles and evaluation of forest stands for health, wildlife habitat and lumber use.	*	*	*	*	*	*

PRIST
DEEMED TO BE
UNIVERSITY
NAAC ACCREDITED
THANJAVUR – 613 403 - TAMILNADU

SCHOOL OF ARTS AND SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
MSC CS

PROGRAMME OUTCOMES	
PO1	To communicate computer science concepts, designs, and solutions effectively and professionally;
PO2	To apply knowledge of computing to produce effective designs and solutions for specific problems;
PO3	To identify, analyses, and synthesize scholarly literature relating to the field of computer science;
PO4	To use software development tools, software systems, and modern computing platforms.
PO5	To an understanding of professional, ethical, legal, security and social issues and responsibilities
PO6	To do capable of evaluating personal and professional choices in terms of codes of ethics and ethical theories and understanding the impact of their decisions on themselves, their professions, and on society
PO7	To apply design and development principles in the construction of software systems of varying complexity.
PROGRAM SPECIFIC OUTCOME	
PSO1	➢ Demonstrate understanding of the principles and working of the hardware and software aspects of computer systems.

PSO2	➢ Understanding the structure and development methodologies of software systems. Possess professional skills and knowledge of software design process. Familiarity and practical competence with a broad range of Programming language and open source platforms.

Sem	Course code	Course title	CO's	PO1	PO2	PO3	PO4	PO5	PO6
I	**17220SEC11**	**J2EE Programming**	Understand the format and use of objects.	*		*	*	*	
			Understand basic input/output methods and their use.	*	*		*	*	*
			Understand development of JAVA applets vs. JAVA applications.	*	*	*		*	*
	17220SEC12	**RDBMS**	Design a database using ER diagrams and map ER into Relations and normalize the reltions.		*	*	*		*
			Acquire the knowledge of query evaluation to monitor the performance of the DBMS.	*	*	*		*	*

			Identify what students will know and be able to do if they master the material.		*	*	*		*
			Identify what students will know and be able to do if they master the material.	*	*	*		*	*
	17220SEC13	**WAP & XML**	Students develop PERT and CPM networks and finding the shortest path	*	*	*		*	*
			Understand the concept of sequencing problems and game theory	*		*	*	*	
			Students gets the knowledge about inventory theory	*	*	*	*	*	*
			Extend knowledge to Non Linear Programming Problems	*		*	*	*	
	17212SEC14	**Discrete Mathematics**	The common 2-year sequence works well for many disciplines.	*		*	*	*	

			Topics can be introduced ""just-in-time"" for many disciplines.	*	*		*	*	*
			Ability study of mathematical structures that are countable or otherwise distinct and separable.	*	*	*		*	*
			Examples of structures that are discrete are combinations, graphs, and logical statements. Discrete structures can be finite or infinite.		*	*	*		*
	17220SEC15L	**J2EE programming Lab**	Thestudents ableto Design and develop GUI applications using Abstract Windowing Toolkit (AWT)	*	*	*		*	*
			Programmer training by creating standardized, reusable modular components and by enabling	*	*		*	*	*

			the tier to handle many aspects of programming automatically.						
			Swing and Event Handling	*	*		*	*	*
			Web applications and Designing	*	*		*	*	*
			Enterprise based applications for business logic	*		*	*	*	
	17220SEC16L	**RDBMS Lab**	Can Declare and enforce integrity constraints on a database using a state-of-the-art.	*	*	*		*	*
			Programming PL/SQL including stored Procedures.	*	*	*		*	*

	17220RLC17	**Research Led Seminar**	The exam is supposed to measure the learning outputs of the program as a whole not a individual course.	*	*	*		*	*
			The primary purpose of the exit exams is to assess students' educational achievement in the courses in their major area of program study.	*		*	*	*	
	II **17220SEC21**	**Python Programming**	To implement the python programming features in practical applications	*	*		*	*	*
			To implement Python programs with conditionals and loops	*	*	*		*	*
			Represent compound data using Python lists, tuples, dictionaries, turtles, Files and modules		*	*	*		*
			Use functions for structuring Python programs.	*	*	*		*	*

	17220SEC22	**Cryptography & Network Security**	Develop basic skills of secure network architecture and explain the theory behind the security of different cryptographic algorithms.		*	*	*		*
			Describe common network vulnerabilities and attacks, defense mechanisms against network attacks, and cryptographic protection mechanisms.	*	*	*		*	*
	17220SEC23	**Software Engineering**	Graduates of the program are expected to demonstrate the problem	*	*	*		*	*
			An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	*		*	*	*	

			To Explain methods of capturing, specifying, visualizing and analyzing software requirements.	*	*	*	*	*	*
II	**17220SEC24L**	**Python Programming Lab**	Able to determine the methods to create and manipulate Python programs.	*		*	*	*	
			By utilizing the data structures like lists, dictionaries, tupelos and sets.	*		*	*	*	
			Identify the commonly used operations involving file systems and regular expressions	*	*		*	*	*
			Duck typing and huge standard library	*	*	*		*	*
			Presence of third-party modules.		*	*	*		*

	17220SEC25L	**Core Practical IV : UNIX Lab**	To introduce Basic Unix general purpose Commands	*	*	*		*	*
			To learn C programming in Unix editor environment.	*	*		*	*	*
			To learn shell script and sed concepts.	*	*		*	*	*
	17220DSC26A	**Artificial Intelligence and Expert System**	To understand the main components of an OS & their functions.	*	*	*	*	*	*
			To study the process management and scheduling.	*	*	*	*	*	*
			To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC.	*	*	*	*	*	*
	17220DSC26C	**Embedded Systems and Real time operating System**	Develop open source programming products which are normally free to download, although it does incur running costs such as storage and computing power.	*	*	*		*	*

			Even those rare paid-for open source products still tend to be far cheaper than closed source alternatives	*	*	*		*	*
			Understand process of executing a PHP-based script on a webserver.	*	*		*	*	*
			Be able to develop a form containing several fields and be able to process the data provided on the form by a user in a PHP-based script.	*		*	*	*	
			Understand basic PHP syntax for variable use, and standard language constructs, such as conditionals and loops	*	*	*		*	*
	17220RMC27	**Research Methodology**	These students able to develop efficient open source programmers for rapidly developing network world	*	*		*	*	*
	17220BRC28		The students are able to develop programs using C# based on object oriented concepts	*	*	*		*	*

		Participation in Bounded Research	Write the ROBUST, EXTENSIBLE and EFFICIENT programs by using c# code and ASP.Net	*		*	*	*	
			Create dynamic web pages for further development.	*	*		*	*	*
			It provides re-usability.	*	*		*	*	*
	III 17220SEC31	**Data Mining and Warehousing**	Identify, formulate, review research literature, and analyze complex engineering problems related to Computer Science and Engineering and reaching substantiated conclusions using first principles of mathematics,	*	*	*		*	*
			Design/development of solutions: Design solutions for complex engineering problems related to Computer Science and Engineering and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety,		*	*	*		*

			and the cultural, societal, and environmental considerations						
	17220SEC32	**Open Source programming**	Ability to estimate if a system takes distributed system characteristic into account in a reasonable way.	*	*	*	*	*	*
			Knowing the basic structures (e.g. client-server) and knowing the existing middleware frameworks.	*		*	*	*	
			Ability to estimate framework suitability for different applications.	*		*	*	*	
			Ability to implement a simple distributed software laboratory work with socket and RMI interfaces.	*	*		*	*	*
	17220SEC33	**.Net Programming**	It provides re-usability.	*	*	*		*	*
			Create web-based distributed applications using ASP.NET, SQL Server and ADO.NET		*	*	*		*

	17220SEC34L	**.Net Programming Lab**	Develop menu based program for text manipulation.	*	*	*		*	*
			Utilize the .NET environment to create Web Service-based applications and components.	*	*		*	*	*
			Less Coding and Increased Reuse of Code: This framework works on object-oriented programming which eliminates unnecessary codes and involves less coding for the developers.	*	*		*	*	*
	17220SEC35L	**Open Source programming Lab**	Securing confidential information.	*	*		*	*	*
			Protection from malicious attacks on your network.	*		*	*	*	
			Develop an understanding of security policies.	*	*	*		*	*
	17220DSC36A	**Multimedia and it's applications**	Deletion and/or guaranteeing malicious elements within a preexisting network.	*	*	*		*	*
			Prevents users from unauthorized access to the network.	*	*	*	*	*	*

			Upon completion of the course, the student should be able to	*		*	*	*	
			Analyze various protocols for It	*	*		*	*	*
	19220DSC35B	**Wireless Communication Network**	Develop web services to access/control It devices.	*	*	*		*	*
			Design a portable It using Raspberry Pi	*		*	*	*	
			Deploy an It application and connect to the cloud.	*	*		*	*	*
			Analyze applications of It in real time scenario	*	*	*		*	*
	17220DSC36B	**Compiler Design**	Upon Completion of the course, the students should be able to Business techniques		*	*	*		*

			Analyze various mobile marketing strategies.	*	*	*		*	*
	17220SRC37	**Societal project (Mini Project)**	Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.		*	*	*		*
			Analyze various mobile marketing strategies	*	*	*		*	*
			To exhibit skills in inventions, innovations and entrepreneurship to meet societal needs with the current trends in technology.	*	*	*		*	*
	17220INT38	**Internship**	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	*		*	*	*	
	IV **17220SEC41**	**Software Testing**		*		*	*	*	
			To have a lifelong learning attitude for a successful professional career in	*	*		*	*	*

			multidisciplinary fields of Engineering and Medicine.						
			To exhibit skills in inventions, innovations and entrepreneurship to meet societal needs with the current trends in technology. PEO III To have a lifelong learning attitude	*	*	*		*	*
	17220PRW42	**Project work**	Can be able to develop plans with relevant people to achieve the project's goals.	*	*	*	*	*	*
			Break work down into tasks and determine handover procedures.	*		*	*	*	

PROGRAMME OUTCOMES	
PO1	Apply the different data structures for implementing solutions to practical problems
PO2	Trace the flow of information from one node to another node in the network
PO3	Understand the format and use of objects
PO4	Able to Measure the product and process performance using various metrics
PO5	Design Secure applications
PO6	Apply the various optimization techniques
PROGRAM SPECIFIC OUTCOME	
PSO1	Ability to pursue careers in IT industry/ consultancy/ research and development, teaching and allied areas related to computer science.
PSO2	Comprehend, explore and build up computer programs in the areas allied to Algorithms, System Software, Multimedia, Web Design and Big Data Analytics for efficient design of computer-based systems of varying complexity.
PSO3	Understand, analyze and develop computer programs in the areas related to algorithms, Process and solutions for specific application development using appropriate data modeling concepts.
PSO4	Apply standard Software Engineering practices and strategies in software project development using open-source programming environment to deliver a quality product for business success.
PSO5	Be acquainted with the contemporary issues, latest trends in technological development and thereby innovate new ideas and solutions to existing problems.
PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	
PEO1	To understand the different methods of organizing large amounts of data.
PEO2	To introduce GUI programming using Microsoft Foundation Classes
PEO3	To learn the fundamental concept of Web Design.
PEO4	To develop network programs in java.

PEO5	Provides idea on VLAN, VTP, STP and Inter-VLAN Routing.	
PEO6	To know the network security tools and system level security used	

SCHOOL OF SCIENCE

ARTS AND

DEPARTMENT

OF COMPUTER SCIENCE
Master of Computer Application (MCA)

em	Course code	Course title	CO's	PO1	PO2	PO3	PO4	PO5	PO6
I	**17222SEC11**	**C Programming and Data structure**	Understand the format and use of objects.	*		*	*	*	

			Understand basic input/output methods and their use.	*		*	*	*	
			Understand development of JAVA applets vs. JAVA applications.	*	*	*		*	*
	17222SEC12	**Data communication network**	Design a database using ER diagrams and map ER into Relations and normalize the relations.	*	*	*	*	*	*
			Acquire the knowledge of query evaluation to monitor the performance of the DBMS.		*	*	*		*
			Identify what students will know and be able to do if they master the material.	*	*	*		*	*
			Identify what students will know and be able to do if they master the material.		*	*	*		*

	17222SEC13	**Computer Architecture**	The common 2-year sequence works well for many disciplines.	*		*	*	*	
			Topics can be introduced ""just-in-time"" for many disciplines.		*	*	*		*
			Ability study of mathematical structures that are countable or otherwise distinct and separable.	*		*	*	*	
			Examples of structures that are discrete are combinations, graphs, and logical statements. Discrete structures can be finite or infinite.	*	*	*		*	*

	17222SEC13	**Programming in VB**	The students ableto Design and develop GUI applications using Abstract Windowing Toolkit (AWT)	*	*		*	*	*
			Programmer training by creating standardized, reusable modular components and by enabling the tier to handle many aspects of programming automatically.	*	*	*		*	*
			Swing and Event Handling	*	*		*	*	*
			Web applications and Designing	*	*	*	*	*	*
			Enterprise based applications for business logic	*	*	*	*	*	*

	17212AEC15	**Numerical and Statistical Methods**	Can Declare and enforce integrity constraints on a database using a state-of-the-art.	*	*	*		*	*
			Programming PL/SQL including stored Procedures.	*	*	*		*	*
	17222SEC16L	**C programming and Data structure Lab**	Analyze processor Performance improvement using instruction level parallelism.	*	*		*	*	*
			Learn the function of each element of a memory hierarchy.	*		*	*	*	
			Articulate design issues in the development of processor or other components that satisfy design requirements and objectives.	*	*	*		*	*
			Analyze processor Performance improvement using instruction level parallelism	*	*		*	*	*

	17222SEC17L	**Programming in VB Lab**	Analyze processor Performance improvement using instruction level parallelism.	*	*	*		*	*
			Study various data transfer techniques in digital computer.	*		*	*	*	
			Develop basic skills of secure network architecture and explain the theory behind the security of different cryptographic algorithms.	*	*		*	*	*
			Describe common network vulnerabilities and attacks, defense mechanisms against network attacks, and cryptographic protection mechanisms.	*	*		*	*	*
	II 17222SEC21	**OOPs with C++**	To implement the python programming features in practical applications	*	*	*		*	*

			To implement Python programs with conditionals and loops		*	*	*		*
			Represent compound data using Python lists, tuples, dictionaries, turtles, Files and modules	*		*	*	*	
			Use functions for structuring Python programs.	*		*	*	*	
	17222SEC22	**Operating system**	Develop basic skills of secure network architecture and explain the theory behind the security of different cryptographic algorithms.	*	*	*	*	*	*
			Describe common network vulnerabilities and attacks, defense mechanisms against network attacks, and cryptographic protection mechanisms.	*		*	*	*	
	17222SEC23	**Web Designing**	Graduates of the program are expected to demonstrate the problem	*		*	*	*	

			An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.	*	*	*		*	*
			To Explain methods of capturing, specifying, visualizing and analyzing software requirements.	*	*	*	*	*	*
	17222SEC24	**Database Management system**	Able to determine the methods to create and manipulate Python programs.		*	*	*		*
			By utilizing the data structures like lists, dictionaries, tupelos and sets.	*	*	*		*	*

			Identify the commonly used operations involving file systems and regular expressions		*	*	*		*
			Duck typing and huge standard library	*		*	*	*	
			Presence of third-party modules.		*	*	*		*
	17212AEC25	**Optimization Technique.**	To introduce Basic Unix general purpose Commands	*		*	*	*	
			To learn C programming in Unix editor environment.	*	*	*		*	*
			To learn shell script and sed concepts.	*	*		*	*	*
	17222SEC26L	**OOPs with C++ Lab**	To impart basic proficiency in representing difficult real life problems in a state space representation so as to solve them using AI techniques like searching and game playing	*	*	*		*	*

			To introduce advanced topics of AI such as planning, Bayes networks,	*	*		*	*	*
			Analyze and formalize the problem as a state space, graph, design heuristics and select amongst different search or game based techniques to solve them.	*	*	*	*	*	*
			Develop intelligent algorithms for constraint satisfaction problems and also design intelligent systems for Game Playing	*	*	*	*	*	*
	17222SEC27L	**Web Designing Lab**	To understand the main components of an OS & their functions.	*	*	*		*	*
			To study the process management and scheduling.	*	*	*		*	*
			To understand various issues in Inter Process Communication (IPC) and the role of OS in IPC.	*	*		*	*	*
	III 17222SEC31	**J2EE Programming**	Develop open source programming products which are normally free to download,	*		*	*	*	

			although it does incur running costs such as storage and computing power.						
			Even those rare paid-for open source products still tend to be far cheaper than closed source alternatives	*	*	*		*	*
			Understand process of executing a PHP-based script on a webserver.	*	*		*	*	*
			Be able to develop a form containing several fields and be able to process the data provided on the form by a user in a PHP-based script.	*	*	*		*	*
			Understand basic PHP syntax for variable use, and standard language constructs, such as conditionals and loops	*		*	*	*	
	17222SEC32	**Core XII: Software Engineering**	Ability to estimate if a system takes distributed system characteristic into account in a reasonable way.	*	*		*	*	*
			Knowing the basic structures (e.g. client-server) and knowing the existing middleware frameworks.	*	*		*	*	*

	17222SEC33	**Relational Data Base Management System.**	To Demonstrate advanced knowledge of networking understands the key protocols which support the Internet.	*	*	*		*	*
			Be familiar with several common programming interfaces for network communication.		*	*	*		*
	17222SEC34	**Routing and Switching in LAN**	These students able to develop efficient open source programmers for rapidly developing network world	*		*	*	*	
	17212AEC35	**Discrete Mathematics**	The students are able to develop programs using C# based on object oriented concepts	*		*	*	*	
			Write the ROBUST, EXTENSIBLE and EFFICIENT programs by using c# code and ASP.Net	*	*	*	*	*	*
			Create dynamic web pages for further development.	*		*	*	*	
			It provides re-usability.	*		*	*	*	

	17222SEC36L	**J2EE Programming Lab**	Ability to estimate if a system takes distributed system characteristic into account in a reasonable way.	*	*	*		*	*
			Knowing the basic structures (e.g. client-server) and knowing the existing middleware frameworks.	*	*	*	*	*	*
			Ability to estimate framework suitability for different applications.		*	*	*		*
			Ability to implement a simple distributed software laboratory work with socket and RMI interfaces.	*	*	*		*	*
17222CRS	**17222CRS**	**RDBMS Lab**	These students able to understand and develop wireless communication and its infrastructure.						
			Understand design considerations for wireless communication networks	*	*	* *	* *	*	*
			Understand the fundamentals of wireless networks.		*	*	*		*
			Learn and analyze the different wireless technologies.	*		*	*	*	

			These students able to understand and develop wireless communication and its infrastructure.	*	*	*		*	*
	17222CRS	**Research Led Seminar**	Explain the HCI implications for designing multimedia/ ecommerce/ e-learning Websites.	*	*		*	*	*
			Analyze processor Performance improvement using instruction level parallelism.	*	*	*		*	*
			Learn the function of each element of a memory hierarchy.	*	*		*	*	*
	172SFSK01L		Apply data mining techniques and methods to large data sets.	*	*	*	*	*	*
			Use data mining tools	*	*	*	*	*	*
		Soft Skill I	Compare and contrast the various classifiers.	*	*	*		*	*

	IV 17222SEC41	**Core XVI :Python Programming**	Study various data transfer techniques in digital computer.	*	*	*		*	*
			Articulate design issues in the development of processor or other components that satisfy design requirements and objectives.	*	*		*	*	*
			Develop basic skills of secure network architecture and explain the theory behind the security of different cryptographic algorithms.	*		*	*	*	
			Describe common network vulnerabilities and attacks, defense mechanisms against network attacks, and cryptographic protection mechanisms.	*	*	*		*	*
	17222SEC42	**Core XVII :Cryptography Network security**	Compare various Cryptographic Techniques	*	*		*	*	*
			Design Secure applications	*	*	*		*	*

			Attain the capability to represent various real life problem domains using logic based techniques and use this to perform inference or planning.	*		*	*	*	
			Formulate and solve problems with uncertain information using Bayesian approaches.	*	*		*	*	*
	17222SEC43	**Core XVIII :Open Source programming**	To understand the main components of an OS & their functions.	*	*		*	*	*
			To study the process management and scheduling.	*	*	*		*	*
	17222SEC44	**Core XIX : Web Service**	To understand and implement Automated software testing techniques for Web testing, Performance testing, and GUI testing.		*	*	*		*
			To develop, implement, and demonstrate the learning through a project that meet stated specifications.	*		*	*	*	
	17222SEC45L	**Core Practical VII: Python Programming Lab**	Design effective dialog for HCI.	*		*	*	*	
			Design effective HCI for individuals and persons with disabilities.	*	*	*	*	*	*

			Assess the importance of user feedback.	*		*	*	*	
			Explain the HCI implications for designing multimedia/ ecommerce/ e-learning Websites.	*		*	*	*	
	17222SEC46L	**Core Practical VIII: Open Source programming Lab**	An understanding of multimedia development in the business world, and how successful development is contingent on detailed client specifications, user and audience research, and design decisions taken during the planning phase.						
			An understanding of the content of learning materials available from e-skills UK and how these can be used with learners to develop multimedia products	* *	* *	* *	*	* *	* *
			To work with learners to plan and create a multimedia product that includes animation, audio and video		*	*	*		*
			An understanding of multimedia development in the business world, and how successful development is contingent on detailed client specifications, user and audience research, and design decisions taken during the planning phase.	*	*	*		*	*

	17222DSC47A	**Mobile Computing**	In Business it helps streamline processes and improve efficiency in terms of organization.		*	*	*		*
			It facilitates communication between the system.	*		*	*	*	
	17222DSC47B	**Knowledge based decision support system**	Can be able to develop plans with relevant people to achieve the project's goals.		*	*	*		*
			Break work down into tasks and determine handover procedures.	*		*	*	*	
			Identify links and dependencies, and schedule to achieve deliverablehandoverE	*	*	*		*	*
	17222CSRM	**Research Methodology**	The exam is supposed to measure the learning outputs of the program as a whole not a individual course.	*	*		*	*	*
			The primary purpose of the exit exams is to assess students' educational achievement in the courses in their major area of program study.	*	*	*		*	*

			The exam is supposed to measures the learning outputs of the program as a whole not the individual courses.	*	*		*	*	*
	17222BRC49	**Participation in Bounded Research**	An understanding of the content of learning materials available from e-skills UK and how these can be used with learners to develop multimedia products	*	*	*	*	*	*
			To work with learners to plan and create a multimedia product that includes animation, audio and video	*	*	*	*	*	*
			An understanding of multimedia development in the business world, and how successful development is contingent on detailed client specifications, user and audience research, and design decisions taken during the planning phase.	*	*	*		*	*
	172SFSK02L	**Soft Skill II**	Leadership skills are essential for anyone who wishes to take on more responsibility and influence in their organization.	*	*	*		*	*
			To work with learners to plan and create a multimedia product that includes animation, audio and video	*	*		*	*	*

V	**17222SEC51**	**Core XX: Data mining and warehousing**	Students who complete this course will be able to understand and comprehend the basics in research methodology and applying them in research/ project work.	*		*	*	*	
			This course will help them to select an appropriate research design.	*	*	*		*	*
	17222SEC52	**Core XXI: Grid and Cloud Computing.**	The course will also enable them to collect the data, edit it properly and analyses it accordingly. Thus, it will facilitate students' prosperity in higher education.	*	*		*	*	*
			Students who complete this course will be able to understand and comprehend the basics in research methodology and applying them in research/ project work.	*	*	*		*	*
	17222SEC53	**Core XXII: .NET Programming**	Design C Programs for problems.	*		*	*	*	

			Write and execute C programs for simple applications	*	*		*	*	*
	17222SEC54	**Core XXIII: Object Oriented System Design**	Apply the different data structures for implementing solutions to practical problems.	*	*		*	*	*
	17222SEC55L	**Core Practical IX: .NET Programming Lab.**	Design C Programs for problems.	*	*	*		*	*
			Write and execute C programs for simple applications		*	*	*		*
	17222DSC56B	**WAP and XML**	Identify the components required to build different types of networks	*		*	*	*	
			Choose the required functionality at each layer for given application	*		*	*	*	
	17222DSC56C	**Wireless communication Network**	Identify solution for each functionality at each layer	*	*	*	*	*	*

			Design arithmetic and logic unit.	*		*	*	*	
	17222SRC57	**Societal project**	Design and analyze pipelined control units	*		*	*	*	
	17222INT58	**Internship**	Evaluate performance of memory systems.	*	*	*		*	*
	172SFSK03L	**Soft Skill III**	Understand parallel processing architectures.	*	*	*	*	*	*
			Design, create, build, and debug Visual Basic applications.		*	*	*		*
VI	**17222SEC61**	**Core XXIV: Human Computer Interaction.**	Explore Visual Basic's Integrated Development Environment (IDE).	*	*	*		*	*
			Create one and two dimensional arrays for sorting, calculating, and displaying of data.		*	*	*		*
	17222PRW62	**Project work**	Able to understand and design the solution to a problem using object-oriented programming concepts.	*		*	*	*	

			Able to use proper class protection mechanism to provide security.		*	*	*		*

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SCHOOL OF ARTS AND SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

M.Phil

Sem	Course code	Course title	CO's	PO1	PO2	PO3	PO4	PO5	PO6
I	173RMGC11	Research Methodology	Systematic approach to hierarchical network that support voice, video, and data.	*		*	*	*	
			Idea on VLAN, VTP, STP and Inter-VLAN Routing.	*		*	*	*	
			Components of a wireless LAN and its operations.	*	*	*		*	*
	173CSC12	Advanced Technologies in Computer Science	You will also learn how to configure the router and the switch for remote access.	*	*	*	*	*	*

			small business router in order to provide network connectivity in a small LAN environment.		*	*	*		*
			Students completing this course will be able to express a logic sentence in terms of predicates, quantifiers, and logical connectives.	*	*	*		*	*
			Students completing this course will be able to apply the rules of inference and methods of proof including direct and indirect proof forms, proof by contradiction, and mathematical induction.		*	*	*		*
	173CSC13_	**Advanced Networking Big Data**	Systematic approach to hierarchical network that support voice, video, and data.	*		*	*	*	
			Idea on VLAN, VTP, STP and Inter-VLAN Routing.		*	*	*		*
			Components of a wireless LAN and its operations.	*		*	*	*	
			You will also learn how to configure the router and the switch for remote access.	*	*	*		*	*
	173RPE14	**Research and Publication Ethic**	Small business router in order to provide network connectivity in a small LAN environment.	*	*		*	*	*

			Students completing this course will be able to express a logic sentence in terms of predicates, quantifiers, and logical connectives.	*	*	*		*	*
			Students completing this course will be able to apply the rules of inference and methods of proof including direct and indirect proof forms, proof by contradiction, and mathematical induction.	*	*		*	*	*
			Systematic approach to hierarchical network that support voice, video, and data.	*	*	*	*	*	*
			Idea on VLAN, VTP, STP and Inter-VLAN Routing.	*	*	*	*	*	*
	173CSD21	**Dissertation - (Topic selected should be relevant to the topic of the In-depth paper**	Students completing this course will be able to apply the rules of inference and methods of proof including direct and indirect proof forms, proof by contradiction, and mathematical induction.	*	*	*		*	*
			Systematic approach to hierarchical network that support voice, video, and data.	*	*	*		*	*