

DEPARTMENT OF COMPUTER SCIENCE
M.Sc. Computer Science

Course Outcomes

On the successful completion of the course, students will be able to

COURSE CODE	COURSE NAME	COURSE OUTCOMES
20PCSC1	Core Paper-I : MOBILE COMPUTING	CO1 : Students will have the ability to understand the need for mobile computing.
		CO2 : Students will have the ability to analyze the extensive role and applications of GSM, UMTS and satellite system communications.
		CO3 : Students will be able to understand wireless LAN architecture and it's applications.
		CO4 : Students will be able analyze the IP packet delivery with respect to mobile Ad-hoc network.
		CO5 : Students will be able to evaluate the performance of wireless communication in the past as well as in the future.
20PCSC2	Core Paper-II : NET PROGRAMMING	CO1 : Students will be able to remember the basic concepts of VB and VB.NET Programming.
		CO2 : Students will have the ability to understand the various tools of VB.NET Programming.
		CO3 : Students will be able to apply different features of OOP Concepts in VB.NET Programming to real time applications.

		<p>CO4 : Students will have the ability to analyze diverse methods of form creation using web with HTML in VB.NET Programming.</p>
		<p>CO5 : Students will have the ability to evaluate different database connectivity methods.</p>
<p>20PCSC3</p>	<p>Core Paper-III : DESIGN AND ANALYSIS OF ALGORITHMS</p>	<p>CO1 : Students will be able to remember the fundamentals of algorithmic Problem solving and algorithm efficiency</p>
		<p>CO2 : Students will have the ability to understand the perception of divide and conquer methodology</p>
		<p>CO3 : Students will be able to apply the concepts of dynamic programming</p>
		<p>CO4 : Students will have the ability to analyze the notation on backtracking .</p>
		<p>CO5 : Students will have the ability to evaluate different types of algorithmic methodology</p>
<p>19PCSEC1</p>	<p>Elective-I : 1. INTERNET OF THINGS</p>	<p>CO1 : Students will be able to remember the basic concepts of IoT</p>
		<p>CO2 : Students will have the ability to understand the various types of protocols and smart object</p>
		<p>CO3 : Students will be able to apply different design methodologies in real time applications</p>
		<p>CO4 : Students will have the ability to analyze diverse methods of data analytics</p>
		<p>CO5 : Students will have the ability to evaluate different industrial applications of IoT.</p>

20PCSEC1S1	ELECTIVE-I: 2. SOFTWARE ENGINEERING	<i>CO1</i> : Students will able to remember the basic concept of software engineering.
		<i>CO2</i> : Students will able to remember and understand the different engineering task.
		<i>CO3</i> : Students will able to analyze the various methods for requirement analysis.
		<i>CO4</i> : Students will able to apply and analyze the context of
		<i>CO5</i> : Student will analyzes of Software metrics program.
20PCSEC1S2	3. BIO INFORMATICS	<i>CO1</i> : Students will able to remember the bio informatics and its opportunities
		<i>CO2</i> : Students will able to understand how access different molecular DNA and RNA
		<i>CO3</i> : Students will able to analyze access different molecular DNA and RNA
		<i>CO4</i> :The student apply and analyze the different database of bioinformatics molecular.
		<i>CO5</i> :Skill to apply and analyze various clustering algorithms on bio informatics data.
20PCSQC1	CORE PRACTICAL-I: VISUAL BASIC.NET	<i>CO1</i> : Students will be able to understand basic concepts of VB.NET Programming
		<i>CO2</i> : Students will be able to apply and implement different forms and controls
		<i>CO3</i> : Students will have the ability to analyze and implement OOP concepts
		<i>CO4</i> : Students will have the ability to analyze and implement diverse web forms and controls
		<i>CO5</i> : Students will be able to implement different database connectivity in forms and controls.

20PCSQC2	CORE PRACTICAL-II: ALGORITHMS LAB	<i>CO1</i> : Students will be able to remember basic concepts of algorithm concepts.
		<i>CO2</i> : Students will be able to understand different types of divide and conquer methodology .
		<i>CO3</i> : Students will have the ability to apply and implement problem solving methods .
		<i>CO4</i> : Students will have the ability to analyze and implement the dynamic programming concepts.
		<i>CO5</i> : Students will be able to implement different types of algorithmic methodology.
20PCSC4	Core Paper-IV : OPEN SOURCE TECHNOLOGY	<i>CO1</i> : Students will be able to remember the basic concepts of DataScience
		<i>CO2</i> : Students will have the ability to understand the basic concepts in python.
		<i>CO3</i> : Students will be able to apply different working environment for python applications
		<i>CO4</i> : Students will have the ability to analyze diverse methods of plotting and understand different tools
		<i>CO5</i> : Students will have the ability to evaluate usability of python tools in clustering and classification.
20PCSC5	Core Paper-V : PRINCIPLES OF COMPILER DESIGN	<i>CO1</i> : Students will be able to remember the fundamentals of algorithmic Problem solving and algorithm efficiency
		<i>CO2</i> : Students will have the ability to understand Data Structures Role of the parser in wring Grammars.
		<i>CO3</i> : Students will be able to apply the concepts of Advance data structures intermediate languages.

		<p>CO4 : Students will have the ability to analyze the sorting and searching techniques.</p>
		<p>CO5 : Students will have the ability to evaluate Principal Sources of Optimization</p>
20PCSC6	Core Paper– VI : J2EE PROGRAMMING	<p>CO1 : Students will be able to remember the ABC of Programming Languages</p>
		<p>CO2 : Students will have the ability to understand J2EE multitier and JDBC process in detail</p>
		<p>CO3 : Students will be able to apply programming to develop JSP and Java Servlet programs</p>
		<p>CO4 : Students will have the ability to analyze RMI concepts and its Application</p>
20PCSEC2	ELECTIVE –II : 1. CLOUD COMPUTING	<p>CO1 : Students will be able to remember the basic concepts cloud computing</p>
		<p>CO2 : Students will have the ability to understand the various types and tools of cloud computing</p>
		<p>CO3 : Students will be able to apply different working features cloud computing</p>
		<p>CO4 : Students will have the ability to analyze and evaluate web features of cloud computing</p>
20PCSEC2S1	ELECTIVE –II : 2. DATA MINING	<p>CO1 : Students will able to remember and understand the importance of data mining concept and how techniques and automated tools are helps to discover knowledge from massive information repositories or raw data.</p>
		<p>CO2 : Students will able to apply pre-processing statistical methods for any given raw data</p>
		<p>CO3 : Students will have the ability to understand and apply various data mining Methods .</p>

		<p>CO4 : Students will have the ability to understand and analyze the different Classifications and Prediction techniques.</p>
		<p>CO5 : Students will have the ability to understand and analyze the different Classifications and Prediction techniques.</p>
20PCSEC2S2	ELECTIVE –II : 3. DIGITAL IMAGE PROCESSING	<p>CO1 : Students will have the ability to understand the basic concepts of digital image processing.</p>
		<p>CO2 : Students will be able to apply different features of digital image processing</p>
		<p>CO3 : Students will have the ability to analyze diverse methods of digital image processing</p>
		<p>CO4 : Students will have the ability to evaluate compression techniques</p>
20PCSQC3	CORE PRACTICAL- III : J2EE	<p>CO1 : Students will have the ability to understand about java database connectivity.</p>
		<p>CO2 : Students will be able to implement and apply java database connectivity for creating tables and performing operations in them</p>
		<p>CO3 : Students will have the ability to analyze the concepts of JSP and Java servlets.</p>
		<p>CO4 : Students will be able to evaluate the performance of JSP, Java Servlet and RMI.</p>
20PCSQC4	CORE PRACTICAL- IV: PYTHON PROGRAMMING	<p>CO1 : Students will be able to understand basic concepts Python programming</p>
		<p>CO2 : Students will be able to apply and implement functions and controls</p>
		<p>CO3 : Students will have the ability to analyse and implement visualization concepts</p>

		<p>CO4 : Students will have the ability to analyze and implement diverse tools for data transformation</p>
		<p>CO5 : Students will be able to apply, analyze and implement clustering and classification</p>
19PCSC7	Core Paper– VII System Software	<p>CO1 : Students will be able to remember the basic concepts of System Software</p>
		<p>CO2 : Students will have the ability to understand the basic concepts in Assemblers.</p>
		<p>CO3 : Students will be able to understand and analyze different working environment of Assemblers and Loaders</p>
		<p>CO4 :Students will have the ability to analyze Macro Processors</p>
		<p>CO5 :Students will have the ability to evaluate usability System Software Tools.</p>
19PCSC8	NETWORK SECURITY	<p>CO1 : Students will be able to remember the fundamentals of cryptography</p>
		<p>CO2 : Students will have the ability to understand public key cryptography</p>
		<p>CO3 : Students will be able to apply the concepts of system security</p>
		<p>CO4 : Students will have the ability to analyze the models of security</p>
		<p>CO5 :Students will have the ability to evaluate the ethical and legal issues in security</p>

19PCSEC3	ELECTIVE: III 1. SOFT COMPUTING	CO1 : Students will be able to remember the basic concepts of soft computing .
		CO2 : Students will have the ability to understand the genetic algorithms and fuzzy sets.
		CO3 : Students will be able to apply fuzzy set operations and neural network concepts.
		CO4 : Students will have the ability to analyze diverse methods of fuzzy logics.
		CO5 :Students will have the ability to analyze and evaluate genetic algorithms and neuro fuzzy system..
19PCSEC3S1	ELECTIVE: III 2. E-COMMERCE	CO1 : Students will be able to understand the basic concepts of E-commerce
		CO2 : Students will be able to apply different models
		CO3 : Students will be able to apply and analyze diverse payment methods.
		CO4 : Students will have the ability to analyze and evaluate different security methods and internet marketing.
19PCSEC3S2	ELECTIVE: III 3. SOFTWARE PROJECT MANAGEMENT	CO1 : Students will able to remember the fundamental software project management.
		CO2 : Students will able to remember , understand various task involve in software project management.
		CO3 : Students will have ability to analyzing the task for the team and organizing team.
		CO4 : Students will have the ability to understand and apply various aspect of software quality
		CO5 :Student will able to analyze and apply right things doing for success of software project

19PCSEC4	ELECTIVE: IV DATA ANALYTICS WITH R	CO1 : Students will be able to understand the ABC of Data Analytics
		CO2 : Understand the basics in R programming in terms of constructs, control statements, string functions
		CO3 : Understand the use of R for Big Data analytics
		CO4 : Learn to apply R programming for Data analytical Theory and Methods.
		CO5 : Able to appreciate and apply the R programming from a statistical perspective
19PCSEC4S1	ELECTIVE –IV : 2. SOFTWARE TESTING	CO1 : Students will able to remember and understand the concept of software testing and its essentials.
		CO2 : Ability to understand various bugs and correcting them after knowing the consequence of the bugs.
		CO3 : Student will ability to understand and apply the testing techniques such as data flow testing and data transaction flow testing.
		CO4 : Student will able to apply and analyze various familiar testing techniques such as domain testing, path testing and logic based techniques.
19PCSEC4S1	ELECTIVE –IV : 3. AI AND EXPERT SYSTEM	CO1 : Students will have the ability to understand the method of problem solving using artificial intelligence
		CO2 : Students will have the ability to apply various state space search techniques.
		CO3 : Students will be able to analyze various problem reduction methods

		<i>CO4</i> : Students will be able to evaluate the performance of artificial and expert systems
19PCSCQC3	Core Practical -V: R Programming Lab	<i>CO1</i> : Students will be able to understand the R Studio Environment.
		<i>CO2</i> : Students will understand the basics in R programming in terms of constructs, control statements, string functions
		<i>CO3</i> : Understand and Apply Pre-processing operations on various Data.
		<i>CO4</i> : Learn to apply R programming for Data analytical Theory and Methods.
		<i>CO5</i> : Student will Able to apply the R programming for a statistical perspective
19PCSEPC	ELECTIVE –V : 1. PROJECT USING OPEN SOURCE	<i>CO1</i> : Students will be able to remember the computing concepts.
		<i>CO2</i> : Students will be able to remember the computing concepts.
		<i>CO3</i> : Students will have the ability to understand the various domains in open source software.
		<i>CO4</i> : Students will be able to apply design phase of project.
		<i>CO5</i> :Students will have the ability to evaluate their project during software testing.
19PCSEPCS1	ELECTIVE –V : 2. UNIFIED MODELLING LANGUAGE	<i>CO1</i> : Students will have the ability to understand the basic concepts of UML
		<i>CO2</i> : Students will be able to apply usecase diagram and activity diagram.
		<i>CO3</i> : Students will have the ability to analyze and evaluate case study and designing patterns in UML.

19PCSEPCS2	ELECTIVE –V : 3. GENETIC ALGORITHMS	CO1 : Students will have the ability to understand the need for evolutionary computing
		CO2 : Students will have the ability to analyze the vital role and applications of genetic algorithms.
		CO3 : Students will be able to evaluate the performance of genetic algorithms
19PCSQEDC	EDC : 1. IMAGE EDITING AND ANIMATION	CO1 : Students will have the ability to understand about photoshop tools
		CO2 : Students will be able to implement and apply photo editing, layer masking in text and shape.
		CO3 : Students will have the ability to analyze the concepts and steps for doing poster and banner creation
		CO4 : Students will be able to evaluate performance in the applicabilty of various features of photoshop and flash
19PCSQEDCS1	EDC : 2. GRAPHICS DESIGNING USING FLASH	CO1 : Student will able to remember and understand several flash tools and tactics.
		CO2 : Demonstrate the ability to effectively utilize the timeline and motion tween affects to produce animation.
		CO3 : Student will able to apply layer masking features and ripple effects.
		CO4 : Student will able to analyze import and export of audio and video files.
		CO5 :Students will have the ability to analyze creativity in animation by apply various animation effect.

19PCSQEDCS2	EDC : 3PHOTO EDITING AND ANIMATION	CO1 : Students will be able to remember the basic concepts of editing & animation
		CO2 : Students will have the ability to understand powerful tools and its usage.
		CO3 : Students will be able to apply creativity in designing applications
		CO4 : Students will have the ability to analyze the importance of the tools.