

Course Name:-Computer Network Technology	
Course Code	Course Outcomes
314441.1	Students will be able to understand the OSI model and its layer responsibilities in detail
314441.2	Students will be able to explain various routing protocols and techniques and its related management issues at large
314441.3	Students will be able to understand working principle of client/server application with respect to application layer protocols
314441.4	Students will obtain thorough knowledge of various Wireless technologies
314441.5	Student can learn various n/w services and they can eligible to use it
314441.6	Student can learn to Secure network

Course Name:- Software Testing and Quality Assurance	
Course Code	Course Outcomes
C414442.1	Students can understand the software testing lifecycle and its importance.
C414442.2	Students can understand various types of software tests and quality control standards.
C414442.3	Students can learn strategies for generating test cases and test management.
C414442.4	Students can understand importance of software measurement and process maturity.
C414442.5	Students can learn the essential characteristics of tools used for test automation.
C414442.6	Students can understand the importance of testing phases in development life cycle.

Course Name:-Data Structures & Files	
Course Code	Course Outcomes
214451.1	Basic ability to analyze algorithms and to determine algorithm correctness and time efficiency class.
214451.2	Understand different advanced abstract data type (ADT) and data structures and their implementations.
214451.3	Understand different algorithm design techniques (brute -force, divide and conquer, greedy, etc.) and their implementation
214451.4	Ability to apply and implement learned algorithm design techniques and data structures to solve problems

214451.5	Students are able to understand and apply hashing techniques.
214451.6	Students can understand and implement different file systems according to requirement

Course Name:- Multimedia Technology	
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Course Code	Course Outcomes
314452.1	To create their own file formats for specific application
314452.2	To do some projects based on current trends in multimedia
314452.3	To use of open sources for authoring tool for animation and presentations
314452.4	To develop simple games and animation
314452.5	Students are able differentiate between 2D & 3D systems
314452.6	Students are able to do 2D animation using open source animation tools

Course Name:-Computer Network Technology	
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Course Code	Course Outcomes
314441.1	Students will be able to understand the OSI model and its layer responsibilities in detail
314441.2	Students will be able to explain various routing protocols and techniques and its related management issues at large
314441.3	Students will be able to understand working principle of client/server application with respect to application layer protocols
314441.4	Students will obtain thorough knowledge of various Wireless technologies
314441.5	Student can learn various n/w services and they can eligible to use it
314441.6	Student can learn to Secure network

Course Name:-Communication &Language Laboratory	
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Course Code	Course Outcomes
214448.1	Provides an ability to understand, analyze and interpret the essentiality of grammar and its proper usage
214448.2	Build the students' vocabulary by means of communication via web, direct communication and indirect communication
214448.3	Improves Students' Pronunciation skills and understanding between various phonetic sounds during communication
214448.4	Understanding the various rules and means of written communication
214448.5	Effective communication with active listening, facing problems while communication and how to overcome it.

214448.6 | Effective Presentations with interactive communication

Course Name:-Data Structures & Files	
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214451.1	Basic ability to analyze algorithms and to determine algorithm correctness and time efficiency class.
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214451.3	Understand different algorithm design techniques (brute -force, divide and conquer, greedy, etc.) and their implementation
214451.4	Ability to apply and implement learned algorithm design techniques and data structures to solve problems
214451.5	Students are able to understand and apply hashing techniques.
214451.6	Students can understand and implement different file systems according to requirement

Course Number: 214444	
Course Name: FUNDAMENTALS OF DATA STRUCTURES	
Sr. No	Course Outcome
C214444.1	Students will be able to apply appropriate constructs of C language, coding standards for application development
C214444.2	Students will be able to select and use appropriate data structures for problem solving and programming
C214444.3	Students will be able to use algorithmic foundation for solving problems and programming
C214444.4	Students will be able to select appropriate searching and/ or sorting techniques for application development

Course Number: 414454	
Course Name: Software Modeling and Design	
Sr. No	Course Outcome
C414454.1	Understand the usage of various UML diagrams to build a model
C414454.2	Prepare an object oriented model in business domain of an application.
C414454.3	Prepare an object oriented model in solution domain.
C414454.4	Apply object oriented principles in the design of software system.
C414454.5	Get started on study of GOF design patterns.
C414454.6	Understand different types of software testing.

Course Number: 314450	
Course Name: Course Name: Systems Programming	
Sr. No	Course Outcome
314450.1	Design & implement System Programs as Assembler, Microprocessor.
314450.2	Use tool Lex for generation of Lexical Analyzer.
314450.3	Use tool YACC for generation of Syntax Analyzer.

Course Number: 414442	
Course Name: SOFTWARE TESTING AND QUALITY ASSURANCE	
Sr. No	Course Outcome
414442.1	Students can understand the software testing lifecycle and its importance.
414442.2	Students can understand various types of software tests and quality control standards.
414442.3	Students can learn strategies for generating test cases and test management.
414442.4	Students can understand importance of software measurement and process maturity.
414442.5	Students can learn the essential characteristics of tools used for test automation.
414442.6	Students can understand the importance of testing phases in development life cycle.

Course Name:-Discrete Structure	
Course Code	Course Outcomes
21 4 4 4 1.1	Students have studied theory of sets and mathematical solutions to the problems of sets
2 1 4 4 4 1.2	Formulate problems precisely and solve the problems
2 1 4 4 4 1.3	Apply formal proof techniques, and explain their reasoning clearly
2 1 4 4 4 1.4	Illustrate by example, basic terminology and model problems in computer engineering using graphs and trees
2 1 4 4 4 1.5	Use graph algorithms for suitable applications
2 1 4 4 4 1.6	Students have learned logical possibilities and probability of events

Course Number: 414449
Course Name: INFORMATION RETRIEVAL

Sr. No	Course Outcome
414449.1	Students can understand basic information retrieval concepts.
414449.2	Students can understand representation, storage, organization and access to information items
414449.3	Students can present the scientific understandings of the field of information search and retrieval.
414449.4	Students can understand the concept of distributed and parallel information retrieval.
414449.5	Students can identify the role and understand the importance of multimedia information retrieval system
414449.6	Students can understand the role and working of search engines.

Course Number: 214451	
Course Name: DATA STRUCTURES	
Sr. No	Course Outcome
214451.1	Students will be able to analyze algorithms and to determine algorithm correctness and time efficiency class.
214451.2	Students will be able to understand different advanced abstract data type (ADT) and data structures and their Implementations.
214451.3	Students will be able to understand different algorithm design techniques (brute -force, divide and conquer, greedy, etc.) and their implementation
214451.4	Students will use ability to apply and implement learned algorithm design techniques and data structures to solve problems.

Course Number: 314449	
Course Name: DESIGN AND ANALYSIS OF ALGORITHMS	
Sr. No	Course Outcome
314449.1	Apply Knowledge of Mathematics to perform asymptotic analysis of algorithms.
314449.2	Demonstrate a familiarity with major algorithms and data structures.
314449.3	Apply important algorithmic design paradigms and methods of analysis.
314449.4	Synthesize efficient algorithms in common engineering design situations.

Course Number: 414442	
Course Name: SOFTWARE TESTING AND QUALITY ASSURANCE	
Sr. No	Course Outcome

414442.1	Students can understand the software testing lifecycle and its importance.
414442.2	Students can understand various types of software tests and quality control standards.
414442.3	Students can learn strategies for generating test cases and test management.
414442.4	Students can understand importance of software measurement and process maturity.
414442.5	Students can learn the essential characteristics of tools used for test automation.
414442.6	Students can understand the importance of testing phases in development life cycle.

Course Number: 414449	
Course Name: INFORMATION RETRIEVAL	
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414449.1	Students can understand basic information retrieval concepts.
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Course Name:-Discrete Structure	
Course	Course Outcomes
2 1 4 4 4 1.1	Students have studied theory of sets and mathematical solutions to the problems of sets
2 1 4 4 4 1.2	Formulate problems precisely and solve the problems
2 1 4 4 4 1.3	Apply formal proof techniques, and explain their reasoning clearly
2 1 4 4 4 1.4	Illustrate by example, basic terminology and model problems in computer engineering using graphs and trees
2 1 4 4 4 1.5	Use graph algorithms for suitable applications
2 1 4 4 4 1.6	Students have learned logical possibilities and probability of events

Course Name:-Mobile Computing B.E	
Course	Course Outcomes
414463.1	Students will gain knowledge of GSM architecture.
414463.2	Students will be able to understand mobility management.
414463.3	Students will be able to understand working of wireless architectures and their applications.

414463.4	Students will be able to understand WAP & GPRS.
414463.5	Students will be able to understand mobile application Architecture.
414463.6	Students will be able to understand recent trends and emerging technologies

Subject	Discrete Structures
Subject Code	214441
Course Outcome (COs)	
214441.1	Use set, relation and function to formulate a problem and solve it
214441.2	Use graph theory and trees to formulate the problems and solve them
214441.3	Use mathematical propositions and proof techniques to check the truthfulness of a real life situation.

Subject	Computer Organization & Architecture
Subject Code	214442
Course Outcome (COs)	
214442.1	Solve problems based on computer arithmetic.
214442.2	Explain processor structure & its functions.
214442.3	Obtain knowledge about micro-programming of a processor.
214442.4	Understand concepts related to memory & IO organization.
214442.5	Acquire knowledge about instruction level parallelism & parallel organization of multi-processors & multi core systems

Subject	Engineering Mathematics -III
Subject Code	207003
Course Outcome (COs)	
207003.1	Solve higher order linear differential equation using appropriate techniques for modeling and analyzing electrical circuits.
207003.2	Solve problems related to Fourier transform, Z-Transform and applications to Signal and Image processing.
207003.3	Apply statistical methods like correlation, regression analysis and probability theory for analysis and prediction of a given data as applied to machine intelligence.

207003.4	Perform vector differentiation and integration to analyze the vector fields and apply to compute line, surface and volume integrals.
207003.5	Analyze conformal mappings, transformations and perform contour integration of complex functions required in Image processing, Digital filters and Computer graphics.

Course Name:-PROBLEM SOLVING AND OBJECT ORIENTED PROGRAMMING	
Course Code	Course Outcomes
214445.1	Develop algorithms for solving problems by using modular programming concepts
214445.2	Abstract data and entities from the problem domain, build object models and design software solutions using object-oriented principles and strategies
214445.3	Discover, explore and apply tools and best practices in object-oriented programming.
214445.4	Develop programs that appropriately utilize key object-oriented concepts

Course Name:-214450 : COMPUTER GRAPHICS	
Course Code	Course Outcomes
214450.1	Apply mathematics and logic to develop Computer programs for elementary graphic operations
214450.2	Develop scientific and strategic approach to solve complex problems in the domain of Computer Graphics
214450.3	Develop the competency to understand the concepts related to Computer Vision and Virtual reality
214450.4	Apply the logic to develop animation and gaming programs

Course Name:-214451 : PROCESSOR ARCHITECTURE AND INTERFACING	
Course Code	Course Outcomes
214451.1	Learn architectural details of 80386 microprocessor
214451.2	Understand memory management and multitasking of 80386 microprocessor
214451.3	Understand architecture and memory organization of 8051 microcontroller
214451.4	Explain timers and interrupts of 8051 microcontroller and its interfacing with I/O devices

Course Name:-314442 : DATABASE MANAGEMENT SYSTEMS	
Course Code	Course Outcomes
314442.1	To understand the fundamental concepts of database management. These concepts include aspects
314442.2	of database design, database languages, and database-system implementation.
314442.3	To provide a strong formal foundation in database concepts, technology and practice.
314442.4	To give systematic database design approaches covering conceptual design, logical design and an
314442.5	overview of physical design.
314442.6	To be familiar with the basic issues of transaction processing and concurrency control.

Course Name:-314443 : SOFTWARE ENGINEERING AND PROJECT MANAGEMENT	
Course Code	Course Outcomes
314443.1	To understand the nature of software complexity in various application domains, disciplined way of
314443.2	Software development and software lifecycle process models.
314443.3	To introduce principles of agile software development, the SCRUM process and agile practices.
314443.4	To know methods of capturing, specifying, visualizing and analyzing software requirements.
314443.5	To understand project management through life cycle of the project.
314443.6	To understand current and future trends and practices in the IT industry.

Course Name:-314444 : OPERATING SYSTEM	
Course Code	Course Outcomes
314444.1	Fundamental understanding of the role of Operating Systems.
314444.2	To understand the concept of a process and thread.
314444.3	To apply the cons of process/thread scheduling.
314444.4	To apply the concept of process synchronization, mutual exclusion and the deadlock.
314444.5	To realize the concept of I/O management and File system.
314444.6	To understand the various memory management techniques.

Course Name:-314445 : HUMAN-COMPUTER INTERACTION	
Course Code	Course Outcomes
314445.1	To explain importance of HCI study and principles of user-centred design (UCD) approach.
314445.2	To develop understanding of human factors in HCI design.
314445.3	To develop understanding of models, paradigms and context of interactions.
314445.4	To design effective user-interfaces following a structured and organized UCD process.
314445.5	To evaluate usability of a user-interface design.
314445.6	To apply cognitive models for predicting human-computer-interactions.

Course Name:-314454 : DATA SCIENCE AND BIG DATA ANALYTICS	
Course Code	Course Outcomes
314454.1	To understand Big Data primitives.
314454.2	To learn and apply different mathematical models for Big Data.
314454.3	To demonstrate their Big Data learning skills by developing industry or research applications.
314454.4	To analyze each learning model come from a different algorithmic approach and it will perform
314454.5	To understand needs, challenges and techniques for big data visualization.
314454.6	To learn different programming platforms for big data analytics.