COURSE OUTCOMES

Course Code and Course Name	Course Outcomes
34AC1 ANALYSIS & DESIGN OF ALGORITHMS	CO1:Understand about the Data Analysis of algorithms Structures and algorithms, CO2:Understand about Basic Traversal And Search Techniques CO3:Understand about Binary Trees, Graphs CO4:Understand about The Greedy Method, Knapsack Problem, Minimum Cost Spanning Tree CO5:Understand about Backtracking, 8-Queens Problem, Hamiltonian Cycles, Branch And Bound and Travelling Salesperson.
34AC2 OBJECT ORIENTED ANALYSIS AND DESIGN & C++	CO1:This course presents the object model, classes, objects and their relationship, nature of the classes and introduction to C++ CO2:Understood the concepts in object models and the basically the C++ language CO3:To understand the Object-based view of Systems CO4:To develop robust object-based Programmes CO5:To inculcate necessary skills to handle complexity in Object Oriented software design
34ACL1 CORE LABORATORY 1: ALGORITHMS AND OBJECT ORIENTED PROGRAMMING	CO1:To provide the students for fundamental knowledge and exposure to the concept, theories and practices in the Object Oriented Programming. CO2:To train the students write programs for various Data structure algorithms. CO3:To enable the students gain knowledge about various search Techniques. CO4:Make the students to follow different types of Sorting Techniques. CO5:To help the students to learn about Virtual functions and Friend functions
34ACL2 CORE LABORATORY 2: SOFTWARE TESTING	CO1:To enable the students to learn about the usage of tools of Software testing CO2:It provides hand on experience of Software Testing tools CO3:Understood the concepts of Software testing CO4:Got the skill of software testing tools CO5:Expertise in using software testing tools
34AC3 ADVANCED NETWORKS	CO1:This course presents the Introduction to Digital networks, Internet Address, Internet protocol, CO2:To enable to learn the digital networks, Internet protocol and UDP diagrams.

Course Code and Course Name	Course Outcomes
	CO3:Gained in-depth knowledge of Internet protocols and their functionalities. CO4:Get well versed with the TCP and UDP. CO5:To get knowledge about Application layer and protocols
34AEL1A ELECTIVE-I : A.ADVANCED SOFTWARE ENGINEERING	CO1:To enable the students to learn the concepts of Software Engineering CO2:The Introduction to Software Engineering, Design, Testing and Maintenance CO3:Understood the concepts of software engineering. CO4:Understood the concepts of SPM contents CO5:To get versed with Software Testing methods
34AEL1B ELECTIVE-I : B SOFTWARE PROJECT MANAGEMENT	CO1:Understand Software Development Life Cycle models. CO2:Understand the basic concepts of Software Effort Estimation and software quality. CO3:Understand the concepts of Resource Allocation and Managing Contracts CO4:Knowledge about Managing Contracts and ISO 12207 CO5:Well versed about the Software Quality and its importance
34AEL1C ELECTIVE -I : C.ADVANCED SOFTWARE TESTING	CO1:Investigate the reason for bugs and analyse the principles in software testing to prevent and remove bugs CO2;Implement various test processes for quality improvement. CO3:Design test Planning, Understand the basic concepts of black box testing and challenges in it. CO4:Apply the software testing techniques in commercial environment CO5:Use practical knowledge of a variety of ways to test software and an understanding of some of the trade-offs between testing techniques
ABILITY ENHANCEMENT-I	CO1:Develop and effectively communicate through verbal/oral communication and improve the listening skills. CO2:Develop and actively participate in group discussion / meetings / interviews and prepare & deliver presentations. CO3:Understand and develop effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality. CO4:Understand the individual through goal/target setting, self motivation and practicing creative thinking. CO5:Acquire the knowledge about the reasoning ability and mental attitude.

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34AC4 DATA MINING AND WAREHOUSING	CO1:Identify data mining tools and techniques in building intelligent machines. CO2:Analyze various data mining algorithms in applying in real time applications. CO3:Analyze unsupervised and supervised naive algorithms in real world applications CO4:Demonstrate the data mining algorithms to combinatorial optimization problems CO5Illustrate the mining techniques like association, classification and clustering on transactional databases.
34AC5 ADVANCED JAVA PROGRAMMING	CO1; It presents the concepts of RMI, JDBC , Servlets, JQuery and JSP. CO2 :To enable the students to learn the basic functions, principles and concepts of java Networking Concepts CO3: Use the concepts of JDBC, Java Servlets and Java Server pages. CO4 :Use exceptions, threads, collections, logs of Java for the given problem. CO5 :Get knowledge in Jquery and its usage
34ACL3 CORE LABORATORY 3: ADVANCED JAVA PROGRAMMING	CO1:This course presents the object model, classes, objects and their relationship, nature of the classes and introduction to Java CO2:To enable the students to learn JDBC and Its Various Techniques CO3:Understood the concepts in object models and database connective and to create web applications. CO4:Programming in the area of Applet and Servlet CO5:Get familiar with JSP programming
34ACL4 CORE LABORATORY 4 : DATA MINING USING R	CO1:Gain the knowledge about algorithms. CO2:Discuss various clustering methods and applications in Data mining CO3:Apply same algorithms and implements it CO4 :classification and prediction methods in various data sets and trees CO5:Data visualization
34AEL2A ELECTIVE II : A.MULTIMEDIA AND ITS APPLICATIONS	CO1:It presents the Introduction to Multimedia, Images & Animation. CO2:Describe about multimedia and how to deliver it. CO3;Demonstrate the images to create and making still images and use formats. CO4:Apply the Concept Animation and principles of Animations. CO5;Develop the power of motion and video.

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34AEL2B **ELECTIVE II : B.BLOCKCHAIN TECHNOLOGY**	CO1:Understand block chain technology and the role of decentralization in block chain CO2:Discuss the key concepts of symmetric cryptography and public key cryptography CO3:Analyze consensus algorithms and understand the concept of bit coin CO4:Explore bit coin network payments, bit coin clients and APIs CO5:Demonstrate smart contract templates, alternative coins, and build smart contracts
34AEL2C **ELECTIVE II : C.PHP PROGRAMMING**	CO1:To enable the students to learn the fundamentals of Open Source software and get experience in PHP and AJAX CO2:This course presents the Introduction to PHP, PHP functions ,database handling and AJAX . CO3:Understood the features like functions, forms in PHP. CO4:Understood Files handling, OOPs concepts , Cookies, Sessions and Data base, draw images on the server with AJAX. CO5:Acquired skills to write PHP programs
ABILITY ENHANCEMENT-I	CO1:Develop and effectively communicate through verbal/oral communication and improve the listening skills. CO2;Develop and actively participate in group discussion / meetings / interviews and prepare & deliver presentations. CO3:Understand and develop effectively in multi-disciplinary and heterogeneous teams through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality. CO4:Understand the individual through goal/target setting, self motivation and practicing creative thinking. CO5:Acquire the knowledge about the reasoning ability and mental attitude.

Course Code and Course Name	Course Outcomes
34AC7 **PYTHON PROGRAMMING**	CO1:To enable the students to gain knowledge in Python. CO2:This course presents an Introduction to Python ,creation of web applications, Network applications and basic concepts of Python Programming CO3:To understand File operations, Classes and Objects CO4:To create Client server networking applications To develop web applications using Python CO5:To enable the students to gain knowledge in Python.
34ACL5 **CORE LABORATORY 5 : PYTHON PROGRAMMING**	CO1:To enable the students to gain knowledge in Python programming. CO2:This course Python Programming develops practical knowledge on loops and functions CO3:To understand File operations, Classes and Objects CO4:To develops programs using Modules in Python. CO5:To create web page applications using Python
34AC8 **DIGITAL IMAGE PROCESSING**	CO1:It presents the Introduction to Digital image Processing, fundamentals, image enhancement and image restoration techniques CO2:To enable the students to learn the fundamentals of Digital Image Processing, image compression and segmentation CO3:Understood the fundamentals of Digital Image Enhancement techniques CO4:Implement the image Restoration, Noise models and Geometric Transformations CO5:Demonstrate the image compression and segmentation techniques
34AC9 **BUSINESS INTELLIGENCE**	CO1;It presents the Introduction to Business intelligence, Big data, Hadoop and Applications of Big Data CO2:Be exposed with the basic rudiments of business intelligence system CO3:Understand the modeling aspects behind Business Intelligence CO4:Understand of the business intelligence life cycle and the techniques used in it CO5:Be exposed with different data analysis tools and techniques
34AEL3A **ELECTIVE III : A. MOBILE COMPUTING**	CO1:It presents the overview of Mobile computing, Applications and Architectures. Also describes the futuristic computing challenges. CO2:The basics of Wireless voice and data communications technologies. CO3:Build working knowledge on various telephone and satellite networks. CO4:The working principles of wireless LAN and its standards and Mobile Computing algorithms. CO5:Build skills in working with Wireless application Protocols to develop mobile content applications

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34AEL3B ELECTIVE III: B.CLOUD COMPUTING	CO1:It presents the introduction to Cloud computing, cloud services, architectures and applications. CO2:To enable the students to learn the basics of cloud computing and its applications, architecture CO3:Understood the Cloud computing architectures, applications and challenges CO4 :Illustrate the fundamental concepts of cloud storage and demonstrate their use in storage systems CO5:Get familiarize with characteristics, advantages and challenges brought about by the various models and services in cloud computing
34AEL3C ELECTIVE III: C.FUNDAMENTALS OF ROBOTICS	CO1:Demonstrate knowledge of industrial robots, characteristics, end affecters an actuators. CO2:Apply spatial transformation to obtain forward and inverse kinematics CO3:Solve robot dynamics problems, generate joint trajectory for path planning. CO4:Describe working principle of various sensors and program different operations. CO5:Appreciate applications of robots in industry
ABILITY ENHANCEMENT-II	CO1:Develop and effectively communicate through verbal/oral communication and improve the listening skills. CO2:Develop and actively participate in group discussion / meetings interviews and prepare &deliver presentations. CO3:Understand and develop effectively in multi-disciplinary and heterogeneous to through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality. CO4:Understand the individual through goal/target setting, self motivation and practicing creative thinking.
34AELPV PROJECT WORK AND VIVA-VOCE	CO1:Ability to identify research problems and selection of research areas. CO2:Acquire knowledge to design application software. CO3:Ability to choose and apply appropriate tools for programming. CO4:Develop the skills to arrive a technical solution to the research problem. CO5:Obtain practical knowledge in preparing the research report.
34AC10 ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS	CO1:Understand the fundamental concepts of AI and its applications and to familiarize the knowledge representation for solving agent based critical problems. CO2:Understand the concepts of rule based expert systems, learning, commonsense etc. CO3:It presents the Introduction to AI Problems, Heuristic techniques, and Represents Simple facts and learning. CO4:To enable the students to learn the concepts of AI and Expert Systems

Course Code and Course Name	Course Outcomes
	CO5:Understood the AI & Expert Systems and Learnt the Heuristic techniques and reasoning
ABILITY ENHANCEMENT-II	CO1:Develop and effectively communicate through verbal/oral communication and improve the listening skills. CO2:Develop and actively participate in group discussion / meetings /interviews and prepare &deliver presentations. CO3:Understand and develop effectively in multi-disciplinary and heterogeneous to through the knowledge of team work, Inter-personal relationships, conflict management and leadership quality. CO4:Understand the individual through goal/target setting, self motivation and practicing creative thinking.