AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

Department Of Information Technology

Course Outcomes

Third Year – 2012 Course			
Course Code	**Course Name**	**Course Outcomes**	
Semester – I			
314441	**Computer Network Technology**	CO-1:	Understand network layer protocols, IPV4 and IPV6 addressing.
		CO-2:	Demonstrate transport layer duties and functionalities and its related management issues at large.
		CO-3:	Discuss working principle of client/server application with respect to application layer protocols.
		CO-4:	Demonstrate various wireless technologies and their protocols in detail.
		CO-5:	Compare Ad-Hoc and sensor networks with respect to their protocols and architectures.
		CO-6:	Identify design issues of sensor networks and discuss recent trends in networking.
		CO-7:	Implement small size network, use various networking tools and demonstrate client-server environments.
314452	**Multimedia Technologies**	CO1	Demonstrate knowledge and understanding of the concepts, principles and theories of Multimedia Applications.
		CO2	Identify different file formats for image media and apply the different techniques.
		CO3	Identify different file formats for audio media Understand how to

			store and manage the data that can provide efficient access
		CO4	Identify different file formats for video media and apply the different techniques.
		CO5	Demonstrate their computing, technical and theoretical skills by developing a substantial Multimedia application.
		CO6	Analyse and solve problems related to their expertise in Multimedia Applications and Virtual Environments.
314456	**Seminar**	CO1	Gather, organize, summarize and interpret technical literature with the purpose of formulating a project proposal.
		CO2	Identify the applicability of modern software tools and technology. Demonstrate the study using graphics and multimedia presentations in a team following ethical standard.
314449	**DESIGN AND ANALYSIS OF ALGORITHMS**	CO1	Identify computational complexity using asymptotic notations for various algorithms.
		CO2	Apply Divide & Conquer as well as Greedy approach to design algorithms
		CO3	Relate principle of optimality
		CO4	Illustrate different problems using Backtracking
		CO5	Compare different methods of Branch and Bound strategy.
		CO6	Explore the concept of P, NP, NP-complete, NP-Hard and parallel algorithms.

		CO7	Compare ,Apply & Analyze various algorithmic strategies for solving problems & it's solutions
314451	**OPERATING SYSTEM & SOFTWARE LABORATORY – II**	CO1	Fundamental understanding of the role of Operating Systems.
		CO2	Understand the concept of a process and thread also Solve Process Scheduling
		CO3	To apply the concept of process synchronization, mutual exclusion and the deadlock.
		CO4	Evaluate various memory management techniques
		CO5	To distinguish the concept of I/O management and File system.
		CO6	Interpret the LINUX Operating System
		CO7	understand the basics of Linux commands and program the shell of Linux, Examine concept of process synchronization, mutual exclusion, deadlock, Understand The IPC though ethics and team work
314443/47	**Database Management Systems(DBMS) & Database Management Systems Laboratory**	CO1	Understand various data models, Entity- Relationship diagrams and normalization
		CO2	Execute queries on database using SQL DML/DDL commands.
		CO3	Demonstrate transaction management , concurrency control and recovery methods
		CO4	Understand Client server, parallel and distributed database architectures with database design
		CO5	Describe features of large scale databases and data management
		CO6	Analyze Data Warehousing, Data Mining and Big Data
		CO7	Develop database oriented applications using SQL, PL/SQL, NoSQL, Large Scale Databases and Mini Project with Database Project Life Cycle following teamwork and ethical standards

314444	**Software Engineering**	CO1	Identify unique features of various software application domains and apply appropriate lifecycle model of software development
		CO2	Describe principles of agile development, discuss the SCRUM process and distinguish agile process model from other process models.
		CO3	Identify user requirements and analyze software requirements by applying various modeling techniques.
		CO4	Show the Construction of requirements model into the design model.
		CO5	Describe and demonstrate use of software and user-interface design principles.
		CO6	List and classify CASE tools and discuss recent trends and research in software engineering with concept of cleanroom design method.
314450 /55	**Systems Programming and Software Laboratory-II**	CO1	learn and understand modern software development tools and language Processing applications and design of Macro processor.
		CO2	Design and Comparison of assemblers and macro processors with phases of Compiler.
		CO3	Analyze compiler and its tool LEX for generation of Lexical Analyzer
		CO4	Classification of parser and use YACC tool for generation of syntax analyzer.
		CO5	Analyze the output generation for all the phases of compiler and Code Formats.
		CO6	Produce code and apply code optimization and storage allocation in the compilation process.
		CO7	Design and implementation of assembler, compiler also use of compiler generation tool with various algorithm strategies.

314445/46	**Web engineering and technology and software laboratory I**	CO1	Apply the concepts, principles and methods of Web engineering and Meta search Engine.
		CO2	Understand sufficient theoretical knowledge and analytical skills to develop and publish Web application.
		CO3	Design of complex Web application, using HTML, CSS, and DHTML.
		CO4	Design and develop website using current Web technologies of programming JavaScript with PHP my admin.
		CO5	Describe and demonstrate application of Java Servlet and CGI also validation of XML documents.
		CO6	List and explain different CMS tool use in enterprise. Website Deployment and parking, hosting of website, FTP, Email.
		CO7	Design a website using Content management system of WordPress also Design web application using HTTP, CSS, PHP admin, MYSQL and Java script.
314453	**IT Project Management**	CO1	Describe IT project management through life cycle of the project and understand basic essential managerial qualities.
		CO2	Schedule project planning, execution, tracking, audit and closure of project.
		CO3	Discuss importance of engineer's role in management.
		CO4	Select different tools for project management and overall analysis
		CO5	Describe the processes in different departments of IT and non-IT industries regarding quality management.
		CO6	Discuss current technologies and future trends in IT Project Management.
314442	**Theory of Computation**	CO1	Construct finite state machines to solve problems in computing.

		CO2	Write mathematical expressions for the formal languages.
		CO3	Apply well defined rules for syntax verification.
		CO4	Construct and analyze Push Down, Post and Turing Machine for formal languages.
		CO5	Express the understanding of the decidability and decidability problems.
		CO6	Express the understanding of computational complexity.