AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

Department Of Information Technology

Course Outcomes

Third Year – 2015 Course			
Course Code	**Course Name**	**Course Outcomes**	
Semester – I			
314450	**Computer Network Technology & Software Laboratory - IV**	CO1	Identify Responsibilities, services offered and protocol used at each layer of network.
		CO2	Understand different addressing techniques used in network.
		CO3	Distinguish between different types of network.
		CO4	Describe the different wireless technologies and IEEE standards.
		CO5	Use and apply the standards and protocols learned, for application development.
		CO6	Understand and explore recent trends in network domain.
		CO7	Understand and use various networking and simulations tools to implement small size network.
314454	**Data Science and Big Data Analytics (DSDBA) & SLVI**	CO1	Understand the concepts of Big data and challenges in processing Big Data
		CO2	Apply different mathematical models for Big Data.
		CO3	Understand Hadoop architecture,

			HDFS and Map Reduce concepts
		CO4	Learn different programming platforms for big data analytics
		CO5	Identify needs, challenges and techniques for big data visualization.
		CO6	Analyze big data technologies and impact.
		CO7	Understand and apply the Analytical concept of Big Data using Hadoop, Hive, Hbase, R,Python,Tableau individual and team following ethical standards.
314458	**Project Based Seminar**	CO1	Understand domain, problem identification, formulation and demonstrate a sound technical knowledge of their selected project topic in a team followiing ethical standard.
		CO2	Understand scientific approach for literature survey, identify the applicability of modern software tools and technology. Demonstrate the study using graphics and multimedia presentations in a team followiing ethical standard.
314452	**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
314445	**HUMAN COMPUTER INTERACTION**	CO1	Explain importance of HCI study and principles of user-centered design (UCD) approach.
		CO2	Develop understanding of human factors in HCI design.
		CO3	Develop understanding of models, paradigms and context of interactions.
		CO4	Design effective user-interfaces following a structured and organized UCD process.
		CO5	Evaluate usability of a user-interface design.
		CO6	Apply cognitive models for predicting human-computer-interactions.
314444	**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
314442	**Database**	CO1	Analyze database models and

	Management Systems(DBMS)& SL-I Lab		entity relationship models.
		CO2	Execute queries on database using SQL DML/DDL commands.
		CO3	Develop PL/SQL programs including stored procedures, stored functions and cursors.
		CO4	Discuss recovery methods and database architectures
		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 SOL, MYSQL, PL-SQL and Mongo DB following Teamwork and ethical standards
314443	**Software Engineering & Project Management (SEPM)**	CO1	Identify unique features of various software application domains and quality of software.
		CO2	Analyze software requirements by applying various modeling techniques.
		CO3	Choose and apply appropriate project planning activity and its tracking with project cost.
		CO4	Describe principles of agile development, discuss the SCRUM process and distinguish agile process model from other process model.
		CO5	List and classify CASE tools and discuss recent trends and research in software engineering.
		CO6	Understand IT project management through life cycle of the project and future trends in IT Project Management.
314448	**Software Laboratory-III**	CO1	Understand and implement web-design using various web technologies with detail study of HTML, CSS, and Web designing tools
		CO2	Apply concepts of Software Engineering process models and concepts of HCI for user-friendly

			project development with effective team building for efficient project development
314451	**Systems Programming and Software Laboratory-V**	CO1	Learn and understand modern software development tools and language Processing applications.
		CO2	Design and Comparison of assemblers and macro processors.
		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 storage allocation
		CO6	Produce code and apply code optimization in the compilation process.
		CO7	Design and implementation of assembler, compiler also use of compiler generation tool with various algorithm strategies.
314453	**CLOUD COMPUTING**	CO1	Discuss the basic concepts of cloud and need of Cloud based solutions
		CO2	Identify challenges in cloud computing and delve into it to effective solutions.
		CO3	Describe effective techniques, environment and application to program Cloud Systems
		CO4	Explain Security Mechanisms and issues in various Cloud Applications
		CO5	Analyze current challenges and trade-offs in Cloud Computing.
		CO6	Describe emerging trends in cloud computing
314441	**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.