AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

Department Of Computer Engineering

Course Outcomes

Third Year – 2015 Course			
Course Code	**Course Name**	**Course Outcomes**	
Semester - I			
310241	Theory of Computation	CO1	Able to design DFA and NFA.
		CO2	Able to design and convert RE to DFA and DFA to RE.
		CO3	Able to understand the context free grammar.
		CO4	Able to design deterministic Turing machine for all inputs and all outputs
		CO5	Able to subdivide problem space based on input subdivision using constraints
		CO6	Able to apply linguistic theory
310242	Database Management Systems (DBMS)	CO1	Design E-R Model for given requirements and convert the same into database tables.
		CO2	Use database techniques such as SQL & PL/SQL
		CO3	Use modern database techniques such as NOSQL.
		CO4	Explain transaction Management in relational database System.
		CO5	Describe different database architecture and analyses the use of appropriate architecture in real time environment.
		CO6	Students will be able to use advanced database Programming concepts Big Data – HADOOP
310243	Software Engineering & Project Management	CO1	Decide on a process model for a developing a software project
		CO2	Classify software applications and Identify unique features of various domains
		CO3	Design test cases of a software system
		CO4	Understand basics of IT Project management
		CO5	Plan, schedule and execute a project considering the risk management
		CO6	Apply quality attributes in software development life cycle

310244	Information Systems and Engineering Economics	CO1	To Understand the need, usage, importance and activities of an information system to an Organization.
		CO2	To Understand the need, usage, importance and activities of a management information system (MIS) to an Organization.
		CO3	To Understand and Analyze various information system solutions like ERP, CRM, Data Warehouses and issues in successful implementation of these technology solutions for an organization.
		CO4	To Analyze Economic decisions done in multinational companies
		CO5	To Apply, Perform, evaluate and compare present worth, future worth and Annual worth for software enterprises of similar domains.
		CO6	To Perform Accounting and Evaluate Cash flows analysis done in Start -up Companies.
310245	Computer Networks	CO1	Understanding the requirements for a given organizational structure to select the most appropriate networking architecture, topologies, transmission mediums, and technologies
		CO2	Illustrate design issues, flow control and error control
		CO3	To learn and apply different IEEE standards/protocols as per need of application.
		CO4	Evaluate different routing and switching algorithms
		CO5	Analyze data flow between TCP/IP model using Application, Transport and Network Layer Protocols.
		CO6	Design applications for Computer Network capabilities selection and for real-time applications.
310246	Skills Development Lab	CO1	Evaluate problems and analyse data using current technologies in a wide variety of business and organizational contexts
		CO2	Design and develop application by applying data pre-processing, exploratory analysis and visualization techniques
		CO3	Apply norms of best practices for building applications
		CO4	Make use of Integrated Development Environment (IDE) for implementing and testing of software solution
		CO5	Make use of Machine Learning Techniques to analyze data
		CO6	Design and develop software solutions for real time problems by demonstrating projects.

310247	Database Management Systems Lab	CO1	Ability to handle databases of varying complexities.
		CO2	Ability to design and develop queries for different applications by using SQL.
		CO3	Ability to write procedures using PL/SQL for advanced database Programming concepts.
		CO4	Ability to design and develop queries for different applications by using open source database NOSQL.
		CO5	Ability to understand transaction processing.
		CO6	Ability to handle different databases using high level programming languages with connectivity concepts.
310248	Computer Networks Lab	CO1	Understand fundamental underlying principles of computer networking.
		CO2	Understand details and functionality of layered network architecture.
		CO3	Apply mathematical foundations to solve computational problems in computer networking
		CO4	Analyze performance of various communication protocols
		CO5	Compare routing algorithms
		CO6	Practice packet /file transmission between nodes.
Semester - II			
310250	Design & Analysis of Algorithms	CO1	To Understand evaluation of algorithms and iterative algorithms
		CO2	To understand and analyze imperative model and greedy strategy
		CO3	To differentiate between DAC ,branch n bound and evolutionary computing
		CO4	To understand deterministic and non-deterministic algorithms
		CO5	To perform amortized analysis and Randomized algorithms
		CO6	To Understand multithreaded and distributed algorithms
310251	Systems Programming & Operating System (SP & OS)	CO1	Understand basics of System Programming and Assembler design.
		CO2	Recognize and illustrate the design and working of Macro processor, linkers and loaders.
		CO3	Analyze role of lexical analyzer for construction of tokens and comparison between compilers and interpreters.
		CO4	Differentiate and List different types of Real time OS, Schedulers with deadlocks methods.
		CO5	Understand Intel 80386 and analyze basic concepts of memory management.
		CO6	Recognize and differentiate various I/O Management, Disk scheduling and file management concept in multi-core OS.

310252	Embedded Systems & Internet of Things (ES & IoT)	CO1	Acquire conceptual understanding in embedded systems.
		CO2	Analyze design methodology for embedded IoT platform.
		CO3	Solve the given societal challenge using available technologies IoT & devices for stated problem.
		CO4	Understand IoT protocols & implement secure infrastructure for IoT.
		CO5	Learn Web of Things
		CO6	Study IoT physical server & Cloud of Things.
310253	Software Modeling and Design	CO1	Analyse the problem statement (SRS) and choose proper design technique for designing web based/ desktop application.
		CO2	Design and analyse an application using UML Static modelling as fundamental tool.
		CO3	Design and analyse an application using UML Dynamic modelling as fundamental tool.
		CO4	Decide and apply appropriate modern tool for designing and modelling
		CO5	Apply design patterns to understand reusability in OO design
		CO6	Decide and apply appropriate modern testing tool for testing web-based/desktop application
310254	Web Technology	CO1	Discuss web development process and front end tools
		CO2	Apply JavaScript and jQuery to Validate the client side scripting
		CO3	Construct web based application using servlet and JSP for server side web technology
		CO4	Construct web based application using PHP for server side web technology
		CO5	Solve the complex problem using client and server side framework
		CO6	Identify web services and content management for solving problem
310255	Seminar & Technical Communication	CO1	Able to be familiar with basic technical writing concepts and terms, such as audience analysis, jargon, format, visuals, and presentation.
		CO2	Able to improve skills to read, understand, and interpret material on technology.
		CO3	Improve communication and writing skills
		CO4	Ability to evaluate information and use and apply relevant theories.
		CO5	Demonstrate problem-solving skills and apply theoretical knowledge.
		CO6	To identify promising new directions of various cutting edge technologies.

310256	Web Technology Lab	CO1	Understand installation & configuration of web servers.
		CO2	Design & Implement static web application using client side technologies.
		CO3	Develop dynamic web based application using suitable client side and server side web technologies
		CO4	Understand & Implement Web application using JavaScript & JQuery.
		CO5	Design web based application using PHP& JSP for server side web technology
		CO6	Develop solution to complex problems using appropriate method, technologies, frameworks, web services and content management
310257	SP & OS Lab	CO1	Understand and analyze design of two pass assembler.
		CO2	Understand and implement two pass macro preprocessor.
		CO3	Analyze and apply LEX tool to implement lexical analysis phase of compiler.
		CO4	Analyze and apply YACC tool to implement syntax analysis phase of compiler.
		CO5	Differentiate and evaluate various scheduling algorithms in operating system.
		CO6	Distinguish and evaluate different memory management algorithms in operating system.
310258	ES & IoT Lab	CO1	Understand basics of embedded system
		CO2	Design the minimum system for sensor based application
		CO3	Solve the problems related to primitive needs using IoT
		CO4	Develop full-fledged IoT application for distributed environment
		CO5	Understand working of IoT cloud
		CO6	Able to deploy applications on IoT Cloud