AMRUTVAHINI COLLEGE OF ENGINEERING, SANGAMNER

Department Of Computer Engineering

Course Outcomes

Second Year – 2012 Course			
Course Code	**Course Name**	**Course Outcomes**	
Semester - I			
210241	Discrete Structures	CO1	Demonstrate use of logical arguments, proof techniques and set theory principles
		CO2	Determine type, properties and solution of relations and functions.
		CO3	Analyse and synthesize the real world problems using discrete mathematics.
		CO4	Solve the problems using graph methods and algorithms.
		CO5	Apply tree models and methods to obtain solutions in various applications.
		CO6	Apply probability theory, principles and distributions in problem
210242	Data Structures and Problem Solving	CO1	Effective selection and use of data structures while problem solving and programming
		CO2	Effective use of algorithmic foundations while problem solving and programming
		CO3	Effective use of OOP in data structures and files in programming
		CO4	Effective use of multi-core programming architecture in programming
		CO5	Effective using of latest programming tools
		CO6	Study Parallel Programming Implementation
210243	Digital Electronics and Logic Design	CO1	Able to understand logic expressions and circuits using Boolean laws and K-map
		CO2	Ability to design and analyse combinational circuits and sequential logic circuits as per specifications.
		CO3	Able to understand logic families IC packages as per design specifications
		CO4	Design the minimum system using VHDL
		CO5	Learn minimum embedded system for simple real world application.
		CO6	To analyse skill to build, and troubleshoot digital circuits.

210244	Operating System and Administration	CO1	Basic knowledge of Unix/Linux operating system
		CO2	Conceptual understanding of Kernel in unix operating system.
		CO3	Ability to apply different operations on file system.
		CO4	Writing Basic shell script commands and Admin commands
		CO5	Ability to apply different operations on processes
		CO6	Knowledge of files and storage systems
210245	Microprocessor Architecture	CO1	Understand the architecture of 8086, 80386DX microprocessor.
		CO2	Illustrate and distinguish memory management in 8086 and 80386Dx microprocessors.
		CO3	Differentiate between the pipeline and non-pipeline machine cycle.
		CO4	Write assembly language program using 64-bit registers.
		CO5	Understand the multicore architecture of the processor.
		CO6	Understand the design of Intel 64 bit processor architecture.
210246	Soft Skills	CO1	Become more effective individual through goal/target setting, self-motivation and by practicing creative thinking.
		CO2	Effectively communicate through verbal/oral, listening skills, writing skills and presentation skills.
		CO3	Understand importance of professional etiquettes
		CO4	Function effectively in teams by applying skills like team work, inter-personal relationships, and conflict management.
		CO5	Know about role, responsibilities and skills required for leadership.
		CO6	Develop time and stress management skills required in problem solving with confidence building.

Semester – II			
207003	Engineering Mathematics III	CO1	Solve Linear differential equations, essential in modeling and design of computer-based systems.
		CO2	Apply concept of Fourier transform and Z-transform and its applications to continuous and discrete systems and image processing.
		CO3	Apply Statistical methods like correlation and regression analysis and probability theory for data analysis and predictions in machine learning.
		CO4	Solve problems related vector differential calculus.
		CO5	Solve problems related to vector integral calculus & apply the same on related applications.
		CO6	Understand complex variable & solve problems using related theorems.
210247	Object oriented and Multicore Programming	CO1	Ability to understand basics of object oriented programming.
		CO2	Ability to use overloading and Inheritances.
		CO3	Learn the concept of generic programming and implement the concept of exception handling in programming
		CO4	Ability to understand basic of Multi-core Programming
		CO5	Understand the concept of Multi-threading
		CO6	Ability to understand concurrency programming models.
210248	Microprocessor and Interfacing Techniques	CO1	Design an algorithm for the given problem solution , discriminate the various data structures and also analyze time and space complexity in order to get efficient solution
		CO2	Apply knowledge of sequential data structure i.e. array for solving computational problems
		CO3	Understand, implement and apply concept of linked list in solving various computational problems
		CO4	Understand, implement and apply concept of stack to solve specific problem
		CO5	Understand concept of Queue, its types and use it in as per requirement
		CO6	Understand and evaluate computational efficiency of different searching and sorting algorithms and use it while solving problems

210249	Computer Graphics and Gaming	CO1	Acquire understanding about computer graphics hardware and peripherals.
		CO2	Ability to understand line drawing, circle drawing Algorithm.
		CO3	Ability to distinguish various Computer Graphics Algorithm.
		CO4	Understanding of 2D line drawing algorithm and polygonal diagram and implement transformations.
		CO5	Learn curve generation techniques.
		CO6	Ability to understand about multimedia / Computer Vision.
210250	Computer Organization	CO1	Able to understand Von Neumann and dataflow Architecture block diagrams
		CO2	Able to understand Internal block diagram and functioning of CPU
		CO3	Able to understand Internal block diagram and functioning of ALU and memory organization
		CO4	The concepts of computer organization for several engineering applications.
		CO5	Effective use of memory utilization
		CO6	Study Advanced computer organization
210251	Programming Laboratory	CO1	Students are able to write the structure, function and characteristics of computer systems
		CO2	Students are able to explain the design of the various functional units of digital computers
		CO3	Students are able to describe basics of Parallel Computer Architecture.
		CO4	Students are Able to explain CPU Architecture
		CO5	Students are able to describe Line Drawing Algorithm
		CO6	Students are Able to Explain CUDA Architecture