ER.PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE OUTCOMES (M.E - COMPUTER SCIENCE AND ENGINEERING)

REGULATION: 2013

S.NO	COURSE NAME	COURSE OUT COMES	
1	C101 - Applied Probability and Statistics (MA7155)	C101.1	Understand the basic concepts of one dimensional Random Variables
		C101.2	Understand the basic concepts of two dimensional Random Variables
		C101.3	Study the estimation theory, Correlation and Regression.
		C101.4	Apply techniques for Testing of hypothesis
		C101.5	Analyze the concepts of multivariate normal distribution and principle components.
2	C102 - Design and Management of Computer Networks (CP7101)	C102.1	Understand the basic network management concepts
		C102.2	Analyze the network requirements
		C102.3	Describe the flow analysis in network
		C102.4	Understand the various network architecture
		C102.5	Design the layout of the network
3	C103 - Advanced Data Structures And Algorithms (CP7102)	C103.1	Understand the principles of iterative and recursive algorithms.
		C103.2	Study the graph search algorithms, network flow and linear programming problems, hill climbing and dynamic programming design techniques.
		C103.3	Design dynamic programming algorithm, recursive backtracking algorithms and get an awareness of NP completeness and randomized algorithms
		C103.4	Apply the principles of shared and concurrent objects.
		C103.5	Analyze the concurrent data structures.
4	C104 - Multicore Architectures (CP7103)	C104.1	Understand the recent trends in the field of Computer Architecture and identify performance related parameters
		C104.2	Analyze the need for parallel processing
		C104.3	Expose the students to the problems related to multiprocessing
		C104.4	Understand the different types of multicore architectures
		C104.5	Expose the students to warehouse-scale and embedded architectures
5	sing Techniques ors (NE7001)	C105.1	Study the sensor characteristics and the fundamental principles of sensing
		C105.2	Understand the sensor interface electronics
		C105.3	Explain selected motion-related sensors

S.NO	COURSE NAME	COURSE OUT COMES	
	C105 - Sen and Sens	C105.4	study light and radiation detectors
		C105.5	study selected temperature sensors and chemical sensors
6	C106 - Mobile and Pervasive Computing (NE7002)	C106.1	Design a basic architecture for a pervasive computing environment
		C106.2	Design and allocate the resources on the 3G-4G wireless networks
		C106.3	Analyze the role of sensors in Wireless networks and Work out the routing in mesh network
		C106.4	Deploy the location and context information for application development
		C106.5	Develop mobile computing applications based on the paradigm of context awarecomputing and wearable computing
7	C107 - Advanced Data Structures Laboratory (CP7111)	C107.1	Design and apply iterative and recursive algorithms.
		C107.2	Design and implement algorithms using the hill climbing and dynamic programming and recursive backtracking techniques.
		C107.3	Design and implement optimisation algorithms for specific applications.
		C107.4	Design and implement randomized algorithms
		C107.5	Design appropriate shared objects and concurrent objects for applications and Implement and apply concurrent linked lists, stacks, and queues.
8	C108 - Case Study - Network Design (Team Work) (CP7112)	C108.1	Analyzing the performance of various configurations and protocols in LAN.
		C108.2	Connecting two LANs using multi-router topology with static routes
		C108.3	Analyzing the performance of various configurations and protocols
		C108.4	Redistribution of RIP and OSPF
		C108.5	Describe the Dial-on-Demand Routing
		C108.6	Analyze the Network Security in various routing protocol
		C108.7	Describe the flow control on network traffic
		C108.8	Defining the Access Lists in network
		C108.9	Configuring a fire wall in various network
		C108.10	Integrating EIGRP (Enhanced Interior Gateway Routing Protocol) into Existing Networks
9	ical Foundations of cience (CP7201)	C109.1	Explain sets, relations, functions
		C109.2	Conduct proofs using induction, pigeonhole principle, and logic
		C109.3	Apply counting, permutations, combinations, and recurrence relations

S.NO	COURSE NAME	COURSE OUT COMES	
	C109 - Theoret Computer S	C109.4	Apply recursive functions and lambda calculus and Explain logic programming and functional programming principles
		C109.5	Apply sequential structures, tree structures, and graph structures and Explain computational models, computability, and complexity
10	C110 - Advanced Databases (CP7202)	C110.1	understand the components of the social network
		C110.2	Model and visualize the social network
		C110.3	Describe the users in the social network
		C110.4	Predict the evolution of the social network
		C110.5	Expalin the interest of the user
11	C111 - Principles of Programming Languages (CP7203)	C111.1	Describe syntax and semantics of programming languages
		C111.2	Explain data, data types, and basic statements of programming languages
		C111.3	Design and implement subprogram constructs
		C111.4	Apply object-oriented, concurrency, and event handling programming constructs
		C111.5	Develop programs in Scheme, ML, and Prolog, Understand and adopt new programming languages
12	C112 - Advanced Operating Systems (CP7204)	C112.1	Discuss the various synchronization, scheduling and memory management issues
		C112.2	Demonstrate the Mutual exclusion, Deadlock detection and agreement protocols of Distributed operating system
		C112.3	Discuss the various resource management techniques for distributed systems
		C112.4	Identify the different features of real time and mobile operating systems
		C112.5	Install and use available open source kernel
13	C113 - Cryptography (NE7202)	C113.1	understand the fundamentals of Cryptography
		C113.2	acquire knowledge on standard algorithms used to provide confidentiality, integrity and authenticity.
		C113.3	understand the various key distribution and management schemes.
		C113.4	Explain how to deploy encryption techniques to secure data in transit across data networks
		C113.5	design security applications in the field of Information technology
14	loud Computing IF7202)	C114.1	Compare the strengths and limitations of cloud computing and Identify the architecture, infrastructure and delivery models of cloud computing.
		C114.2	Apply suitable virtualization concept and Choose the appropriate cloud player.
		C114.3	Choose the appropriate Programming Models and approach.

S.NO	COURSE NAME	COURSE OUT COMES	
	C114 - C (	C114.4	Address the core issues of cloud computing such as security, privacy and interoperability.
		C114.5	Design Cloud Services and Set a private cloud.
15	C115 - Advanced Databases Laboratory (CP7211)	C115.1	Work on distributed databases
		C115.2	Create and work on object oriented databases
		C115.3	Create and work with parallel database
		C115.4	Experiment on active database
		C115.5	Explore the features of deductive database
		C115.6	work on weka tool for clustering and classification
		C115.7	Represent the database using XML and work on it
16	C116 - Case Study - Operating System Design (Team Work) (CP7212)	C116.1	Develop assigned modules of operating systems design carrying out coding, testing, and documentation work involved.
		C116.2	Describe team issuses and apply suitable methods to resolve the same.
		C116.3	Demonstrate individual competence in building medium size operating system components.
		C116.4	Prepare suitable plan with clear statements of deliverables, and track the same.
		C116.5	Make individual presentation of the work carried out and Prepare well-organized written documents to communicate individual work accomplished.
17	C201 - Software Process and Project Management (CP7301)	C201.1	Understand overall SDLC and adopt suitable processes
		C201.2	Elicite, analyze, prioritize, and manage both functional and quality requirements
		C201.3	Estimate efforts required, plan, and track the plans
		C201.4	Understand and apply configuration and quality management techniques
		C201.5	Evaluate, manage, and design processes
18	C202 - Social Network Analysis (NE7012)	C202.1	Analyze and implement C programs using pointers, control structures and data structures
		C202.2	Design and implement C programs for implementing stacks, queues, linked lists.
		C202.3	Apply good programming design methods for program development.
		C202.4	Execute the different data structures for implementing solutions to practical problems.
		C202.5	Develop searching and sorting programs and checking their complexities.
	val	C203.1	Build an Information Retrieval system using the available tools

S.NO	COURSE NAME	COURSE OUT COMES	
19	C203 - Information Retrieval Techniques (CP7024)	C203.2	Identify and design the various components of an Information Retrieval system
		C203.3	Apply machine learning techniques to text classification and clustering which is used for efficient Information Retrieval
		C203.4	Analyze the Web content structure
		C203.5	Design an efficient search engine
20	C204 - Information Storage Management (CP7029)	C204.1	Understand the basics of storage technology
		C204.2	Explain the storage system architecture
		C204.3	Describe the networked storage
		C204.4	Understand the information availability, monitoring & managing datacenter
		C204.5	Apply the securing storage and storage virtualization concept
21	C205 - Project Work (Phase I) (CP7311)	C205.1	Identify the problem by applying acquired knowledge
		C205.2	Construct and organize executable project modules through proper designing
		C205.3	Choose efficient tools for implementation of the designed modules
		C205.4	Analyze and categorize the outcomes of the implementation and derive inferences
		C205.5	Examine the completed task and compile the project report
22	C206 - Project Work (Phase II) (CP7411)	C206.1	Plan and construct improved methods for an identified problem by applying acquired knowledge
		C206.2	Experiment and Develop effective solutions through proper designing
		C206.3	Analyze and categorize the outcomes of the implementation and derive inferences.
		C206.4	Assess the acquiredoutcomes based on evaluation metrics
		C206.5	Examine the completed task and compile the project report