ER.PERUMAL MANIMEKALAI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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

REGULATION: 2017

S.NO	COURSE NAME	COURSE OUT COMES	
1	C101 - MA5160 - Applied Probability and Statistics	C101.1	Apply the concept of random variable to find moments& moment generating functions of distributions
		C101.2	Find marginal, conditional distribution, statistical average for the standard probability function.
		C101.3	Find the M.L.E and use the principle of least squares for curve fitting and regression lines.
		C101.4	Identify small, large samples and apply testing of hypothesis.
		C101.5	Analyze the multivariate methods for normal density and principal components from standardized variables
2	C102 - CP5151 - Advanced Data Structures and Algorithms	C102.1	Describe the usage of algorithms in computing.
		C102.2	Use hierarchical data structures.
		C102.3	Explain non-linear data structures with its application
		C102.4	Summarize the Dynamic Programming concepts
		C102.5	Outline the NP Completeness of problem
3	C103 - CP5152 - Advanced Computer Architecture	C103.1	Identify the limitations of ILP and the need for multicore architectures
		C103.2	Discuss the various techniques used for optimizing cache performance and design of hierarchical memory system
		C103.3	Ability to discuss issues on multiprocessors, cache coherence and interconnection networks
		C103.4	Ability to discuss the architecture and workloads for warehouse scale computers.
		C103.5	Discuss the issues related to Vector Processing and how data level parallelism is exploited in architectures. GPU and software pipelining
	Operating nals	C104.1	Understand how the processes are implemented in Linux.
		C104.2	Discuss the implementation of the Linux file system.

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4	C104 - CP5153 - C System Inter	C104.3	Explain the Linux memory management data structures and algorithms.
		C104.4	Outline the knowledge in the implementation of inter process communication.
		C104.5	Summarize how program execution happens in Linux.
5	C105 - CP5154 - Advanced Software Engineering	C105.1	Outline software life cycle models and project management
		C105.2	Explain the system analysis concepts
		C105.3	Explain the system design concepts
		C105.4	Outline the software testing approaches
		C105.5	Outline the DevOps practices
6	C106 - CP5191 - Machine Learning Techniques	C106.1	Distinguish between, supervised, unsupervised and semi-supervised learning
		C106.2	Apply the appropriate machine learning strategy for any given problem
		C106.3	Suggest supervised, unsupervised or semi-supervised learning algorithms for any given problem
		C106.4	Design systems that uses the appropriate graph models of machine learning
		C106.5	Modify existing machine learning algorithms to improve classification efficiency
7	C107 - CP5161 - Data Structures Laboratory	C107.1	Design and implement basic data structures.
		C107.2	Design and implement advanced data structures.
		C107.3	Design and implement data structures using graphs.
		C107.4	Design and develop Optimization Algorithms
		C107.5	Design and develop Dynamic programming algorithms.
	rk Design And ies	C108.1	Summarize Multiplexing Techniques and Wired & Wireless scenarios.
		C108.2	Classify the types and functionality of Wireless Technologies

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8	C108 - CP5201 - Netwo Technologi	C108.3	Classify Mobility Management and Call Control of different Cellular Technologies.
		C108.4	Explain the layers of 4G Network
		C108.5	Infer functionalities of Software Defined Network
9	C109 - CP5291 - Security Practices	C109.1	Understand the core fundamentals of system security
		C109.2	Apply the security concepts related to networks in wired and wireless scenario
		C109.3	Implement and Manage the security essentials in IT Sector
		C109.4	Explain the concepts of Cyber Security and encryption Concepts
		C109.5	Attain a thorough knowledge in the area of Privacy and Storage security and related Issues
10	C110 - CP5292 & Internet of Things	C110.1	Analyze various protocols for IoT
		C110.2	Develop web services to access/control IoT devices.
		C110.3	Design a portable IoT using Raspberry Pi
		C110.4	Deploy an IoT application and connect to the cloud.
		C110.5	Analyze applications of IoT in real time scenario
11	C111 - CP5293 - Big Data Analytics	C111.1	To understand the competitive advantages of big data analytics
		C111.2	To understand the big data frameworks
		C111.3	To learn data analysis methods
		C111.4	To learn stream computing
		C111.5	To gain knowledge on Hadoop related tools such as HBase, Cassandra, Pig, and Hive
12	001 - Principles of ming Languages	C112.1	Summarize syntax and semantics of programming languages.
		C112.2	Explain the attributes of data types, abstraction and encapsulation.
		C112.3	Examine functional programming features and design subprogram constructs

S.NO	COURSE NAME	COURSE OUT COMES	
	C112 - CP5 Programm	C112.4	Design and develop logic programming using various constructs
		C112.5	Demonstrate concurrency through shared data and semantics
13	C113 - CP5093 - Mobile and Pervasive Computing	C113.1	Summarize the architecture and concepts on generations of communication systems.
		C113.2	Explain the latest 4G Telecommunication System Principles.
		C113.3	Interpolate the pervasive concepts.
		C113.4	Examine HCI in Pervasive environment.
		C113.5	Design pervasive concepts in mobile environment.
14	C114 - CP5094/ Information Retrieval Techniques	C114.1	Explain about the IR basic concepts and its components.
		C114.2	Interpret various information retrieval models.
		C114.3	Explain the indexing and query operations.
		C114.4	Demonstrate document text mining techniques and clustering Algorithms.
		C114.5	Explain the Web Search Engine Framework.
15	C115 - CP5261 - Data Analytics Laboratory	C114.1	To implement map Reduce programs for processing big data
		C114.2	To realize storage of big data using H base, Mongo DB
		C114.3	To analyze big data using linear models
		C114.4	To analyze big data using machine learning techniques such as SVM / Decision tree
		C114.5	To analyze big data using machine learning techniques such as classification and
16	6 - CP5281 - Term Paper Writing and Seminar	C115.1	Identify the Domain Specific Objective
		C115.2	Summarize the Literature Survey
		C115.3	Analyzing different Methodologies
		C115.4	Produce final draft of the Research Paper

S.NO	COURSE NAME	COURSE OUT COMES	
	C11	C115.5	Prepare presentation for the research undergone
17	C201 - CP5005 - Software Quality Assurance and Testing	C201.1	Understand the basics of testing, test planning & design
		C201.2	Discuss the various types of tests
		C201.3	Explain the different categories of system test
		C201.4	Outline the software quality metrics and standards
		C201.5	Summarize the quality assurance techniques and activities
18	C202 - CP5074 - Social Network Analysis	C202.1	Understand the components of the social network
		C202.2	model and visualize the social network
		C202.3	Understand mine the users in the social network
		C202.4	understand the evolution of the social network
		C202.5	know the applications in real time systems
19	C203 - CP5076 - Information Storage Management	C203.1	To understand the storage architecture and available technologies.
		C203.2	To learn to establish & manage data centre.
		C203.3	To understand Networked Storage
		C203.4	To learn information availability, monitoring & managing Data centres
		C203.5	To learn security aspects of storage & data centre.
19	C204 - CP5311-Project Work (Phase- I)	C204.1	Identify the problem by applying acquired knowledge
		C204.2	Construct and organize executable project modules through proper designing
		C204.3	Choose efficient tools for implementation of the designed modules
		C204.4	Analyze and categorize the outcomes of the implementation and derive inferences.
		C204.5	Examine the completed task and compile the project report

S.NO	COURSE NAME	COURSE OUT COMES	
19	C205 - CP5411 - Project Work (Phase- II)	C205.1	Plan and construct improved methods for an identified problem by applying acquired knowledge
		C205.2	Experiment and Develop effective solutions through proper designing
		C205.3	Analyze and categorize the outcomes of the implementation and derive inferences
		C205.4	Assess the acquired outcomes based on evaluation metrics
		C205.5	Examine the completed task and compile the project report