

K.L.N. COLLEGE OF ENGINEERING POTTAPALAYAM
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Regulation 2013 Course Outcomes
Degree/Branch: M.E., COMPUTER SCIENCE AND ENGINEERING

Year/Semester: I/I

MA7155-Applied Probability and Statistics

CO	Course Outcomes
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

CP7101-Design and Management of Computer Networks

CO	Course Outcomes
C102.1	Understand the process of designing a computer network
C102.2	Understand the addressing strategies for managing the networks.
C102.3	Understand the functions of flow analysis .
C102.4	Understand the routing strategies for managing the networks.
C102.5	To learn the process of optimizing a network.

CP7102-Advanced Data Structures and Algorithm

CO	Course Outcomes
C103.1	Understand the principles of iterative and recursive algorithms.
C103.2	Design and implement optimization algorithms in specific applications
C103.3	Design implement dynamic programming algorithms.
C103.4	Understand the concept of shared and concurrent objects
C103.5	Implement and apply concurrent linked lists, stacks, and queues

CP7103-Multicore Architecture

CO	Course Outcomes
C104.1	Identify the limitations of ILP and the need for multicore architectures
C104.2	Discuss the issues related to Vector Processing, GPU and software pipelining
C104.3	Ability to discuss issues on multiprocessors, cache coherence and interconnection networks
C104.4	Ability to discuss the architecture and workloads for warehouse scale computers.
C104.5	Discuss the architecture of embedded processors and multiprocessors

CP7004-Image Processing and Analysis

CO	Course Outcomes
C105.1	Understand the basics of digital images and their spatial domain processing
C105.2	Understand the various frequency domain transformations and filters
C105.3	Apply different segmentation techniques to digital images
C105.4	Understand the various Corner and interest point detection methods and morphological operators
C105.5	Understand the components of color images and different image compression technique

NE7002-Mobile and Pervasive Computing

CO	Course Outcomes
C106.1	CO1: Interpret the fundamental of basics of Mobile Computing and Pervasive Computing
C106.2	CO2: Construct the role of Cellular Networks in Mobile and Pervasive Networks
C106.3	CO3: Apply the knowledge in concept of sensor and mesh networks
C106.4	CO4: Demonstrate the tools with context aware and wearable computing
C106.5	CO5: Demonstrate the Application and Manage the Memory

CP7211-Advanced Data Structures and Lab

CO	Course Outcomes
C107.1	Design and apply iterative and recursive algorithms
C107.2	Design and implement optimisation algorithms for specific applications.
C107.3	Design and implement randomized algorithms.
C107.4	Design appropriate shared objects and concurrent objects for applications.
C107.5	Implement and apply concurrent linked lists, stacks, and queues

CP7112-Case Study – Network Design

CO	Course Outcomes
C108.1	Analyzed the performance of various configurations and protocols in LAN.
C108.2	Understanding the concept of RIP and OSPF
C108.3	Demonstrated the concept of Network Security and Networks Traffic Flow.
C108.4	Understand the configuration of Firewall.
C108.5	Understand the integration of EIGRP (Enhanced Interior Gateway Routing Protocol) into Existing Networks

Year/Semester: I/II

CP7201-Theoretical Foundation of Computer Science

CO	Course Outcomes
C109.1	Interpret the fundamentals of set theory.
C109.2	Solve the different logic programming for the given statements.
C109.3	Compare the different reduction methods in lambda calculus.
C109.4	Illustrate the methods of tree and graph structures for problem solving.
C109.5	Construct a FA for the given language set.

CP7202-Advance Databases

CO	Course Outcomes
C110.1	Outline database system architectures and explain parallel and distributed databases
C110.2	Compare object and object relational databases and experiment with OQL
C110.3	Explain active, temporal and spatial databases
C110.4	Outline mobile, multimedia databases and explain mining techniques
C110.5	Experiment with XML and summarize web database and cloud storage basics

CP7203-Principles of Programming Language

CO	Course Outcomes
C111.1	Summarize syntax and semantics of a programming language
C111.2	Outline design issues of data types, statements and expressions
C111.3	Experiment with design issues for subprograms
C111.4	Identify design issues for various object oriented concepts
C111.5	Interpret different multi paradigm languages

CP7204-Advanced Operating System

CO	Course Outcomes
C112.1	C112.1 Discuss the various synchronization, scheduling and memory management issues
C112.2	C112.2 Demonstrate the Mutual exclusion, Deadlock detection and agreement protocols of Distributed operating system
C112.3	C112.3 Discuss the various resource management techniques for distributed systems
C112.4	C112.4 Identify the different features of real time and mobile operating systems
C112.5	C112.5 Install and use available open source kernel
C112.6	Modify existing open source kernels in terms of functionality or features used

NE7202-Network and Information Security

CO	Course Outcomes
C113.1	Understand the fundamentals of Cryptography
C113.2	Apply the knowledge of various algorithms to provide confidentiality, integrity and authenticity.
C113.3	Implementation of various key distribution and management schemes.
C113.4	Examine encryption techniques to secure data in transit across data networks
C113.5	Design security applications in the field of Information technology

IF7202-Cloud Computing

CO	Course Outcomes
C114.1	To introduce the broad perceptive of cloud architecture and model
C114.2	To understand the concept of Virtualization
C114.3	To apply different cloud programming model as per need.
C114.4	To understand the design of cloud Services.
C114.5	To learn to design the trusted cloud Computing system

CP7211-Advance Database lab

CO	Course Outcomes
C201.1	Apply distributed database, Parallel database technique to solve a scenario
C201.2	Apply OQL to retrieve results
C201.3	Experiment with weka tool
C201.4	Make use of active and deductive database to solve a scenario
C201.5	Construct XML schema for given database

CP7212-Case Study – Operating System Design

CO	Course Outcomes
C202.1	C116.1 Understand the issues in designing and implementing modern operating systems
C202.2	C116.2 Understand team formation, team issues, and allocating roles and responsibilities
C202.3	C116.3 Demonstrate individual competence in building medium size operating system components
C202.4	C116.4 Demonstrate ethical and professional attributes of a computer engineer.
C202.5	C116.5 Prepare suitable plan with clear statements of deliverables, and track the same.

Year/Semester: II/III

CP7301-Software Process and Project Management

CO	Course Outcomes
C203.1	Explain software development life cycle processes
C203.2	Prepare requirements using the requirement management techniques
C203.3	Generalize about planning and tracking activities
C203.4	Operate with various test cases and testing types to ensure quality
C203.5	Explain software process definition and management

NE0111-Mobile Application Development

CO	Course Outcomes
C204.1	Understand system requirements for mobile applications
C204.2	Generate suitable design using specific mobile development frameworks
C204.3	Generate mobile application design
C204.4	Implement the design using specific mobile development frameworks
C204.5	Deploy the mobile applications in marketplace for distribution

CP7022-Software Design

CO	Course Outcomes
C205.1	Analyze specifications
C205.2	Describe approaches to design
C205.3	Develop design documentation
C205.4	Evaluate the design
C205.5	Analyze specifications

CP7026-Software Quality Assurances

CO	Course Outcomes
C206.1	Understand the basics of Quality models and assurance process
C206.2	Understand the various Verification techniques
C206.3	Explain the different approaches for testing
C206.4	Outline the various structural testing
C206.5	Summarize the various functional testing with the testing attributes.

CP7028-Enterprise Application Integration

CO	Course Outcomes
C207.1	Identify the requirements and approaches to enterprise application integration
C207.2	Construct the integration pattern for application and middleware
C207.3	Choose efficient model for implementation of Service Oriented Integration
C207.4	Analyze infrastructure for implementation Messaging Based Integration
C207.5	Examine the integration approaches suitable for a given problem

CP7311-Project Work (Phase- I)

CO	Course Outcomes
C208.1	Identify the problem by applying acquired knowledge
C208.2	Construct and organize executable project modules through proper designing
C208.3	Choose efficient tools for implementation of the designed modules
C208.4	Analyze and categorize the outcomes of the implementation and derive inferences.
C208.5	Examine the completed task and compile the project report

Year/Semester: II/IV

CP7411-Project Work (Phase- II)

CO	Course Outcomes
C209.1	Plan and construct improved methods for an identified problem by applying acquired knowledge
C209.2	Experiment and Develop effective solutions through proper designing
C209.3	Analyze and categorize the outcomes of the implementation and derive inferences.
C209.4	Assess the acquired outcomes based on evaluation metrics
C209.5	Examine the completed task and compile the project report