

ROHINI COLLEGE OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Anna University Regulation 2013
M.E Computer Science and Engineering

List of Course Names

S.No.	Sem	Course code	Course	Course Title
1	I	13C101	MA7155	Applied Probability and Statistics
2	I	13C102	CP5151	CP7101-Design and Management of Computer Networks
3	I	13C103	CP7102-	Advanced Data Structures and Algorithm
4	I	13C104	CP7103	Multicore Architecture
5	I	13C105	NE7001(PE-I)	Sensing Techniques and Sensors
	I	13C106	CP7007(PE-II)	Software Requirements Engineering
7	I	13C107	CP7211	Advanced Data Structures and Lab
8	I	13C108	CP7112	Case Study – Network Design
9	II	13C109	CP7201	Theoretical Foundation of Computer Science
10	II	13C110	CP7202	Advance Databases
11	II	13C111	CP7203	Principles of Programming Languages
12	II	13C112	CP7204	Advanced Operating System
13	II	13C113	CP7014(PE-III)	Software Architectures
14	II	13C114	NE7005 (PE-IV)	Protocols and Architecture for Wireless Sensor Networks
15	II	13C115	CP7211	Advance Database lab
16	II	13C116	CP7212	Case Study – Operating System Design
17	III	13C201	CP7301	Software Process and Project Management
18	III	13C202	CP7029 (PE-V)	Information Storage Management
19	III	13C203	CP7022(PE-VI)	Software Design
20	III	13C204	CP7026(PE-VII)	Software Quality Assurances
21	III	13C205	CP7311	Project Work (Phase- I)
22	IV	13C206	CP7411	Project Work (Phase- II)

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Course Outcomes (CO)

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 computer network management processes.
C102.2	Analyze the Network requirement Analysis processes..
C102.3	Demonstrate the functions of flow analysis .
C102.4	Understand the routing strategies for managing the networks.
C102.5	To Apply the network design concepts and processes.

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	Illustrate the architecture and workloads for warehouse scale computers.
C104.5	Discuss the architecture of embedded processors and multiprocessors

NE7001-Sensing Techniques and Sensors

CO	Course Outcomes
C105.1	Understand the various sensor characteristics
C105.2	Analyze the optical components of sensors and interface electronics.
C105.3	Illustrate the use of appropriate motion-related sensors
C105.4	Choose and use appropriate light and radiation detectors
C105.5	Demonstrate and use the appropriate chemical and temperature sensors

CP7007-Software Requirements Engineering

CO	Course Outcomes
C106.1	Summarize the process for requirements engineering
C106.2	Execute a process for gathering requirements through elicitation techniques.
C106.3	Develop and document functional requirements for different types of systems
C106.4	Develop and document quality attributes of the system to be implemented
C106.5	Negotiate with stakeholders in order to agree on a set of requirements.

CP7211-Advanced Data Structures and Lab

CO	Course Outcomes
C107.1	Design and apply iterative and recursive algorithms
C107.2	Design and implement optimization 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
C107.6	Develop Applications using necessary algorithms.

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

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	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

CP7014 - Software Architectures

CO	Course Outcomes
C113.1	Explain key architectural drivers
C113.2	Explain the influence of architecture on business and technical activities
C113.3	Identify key architectural structures and styles
C113.4	Develop alternative architectures for a given problem
C113.5	Describe the recent trends in software architecture

NE7005 - Protocols and Architecture for Wireless Sensor Networks

CO	Course Outcomes
C114.1	Summarize the concept of wireless sensor network
C114.2	Architecture of wireless sensor network
C114.3	Illustrate the concept of deployment and configuration
C114.4	Explain about routing protocols and data manipulation.
C114.5	Describe various sensor network platforms and tools

CP7211-Advance Database lab

CO	Course Outcomes
C115.1	Apply distributed database, Parallel database technique to solve a scenario
C115.2	Apply OQL to retrieve results
C115.3	Experiment with weka tool
C115.4	Make use of active and deductive database to solve a scenario
C115.5	Construct XML schema for given database

CP7212-Case Study – Operating System Design

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

CP7301-Software Process and Project Management

CO	Course Outcomes
C201.1	Explain software development life cycle processes
C201.2	Prepare requirements using the requirement management techniques
C201.3	Generalize about planning and tracking activities
C201.4	Operate with various test cases and testing types to ensure quality
C201.5	Explain software process definition and management

CP7029 - Information Storage Management

CO	Course Outcomes
C202.1	Understand the challenges in data storage and storage management.
C202.2	Analyze various storage system architectures.
C202.3	Illustrate the Network storage architecture, components, topologies.
C202.4	Analyze the information availability and to Monitoring and managing data centres.
C202.5	Apply the storage security and virtualizations.

CP7022-Software Design

CO	Course Outcomes
C203.1	Describe various software design techniques
C203.2	Describe different approaches to designing a software application
C203.3	Develop an appropriate design for a given set of requirements
C203.4	Identify applicable design patterns for the different services.
C203.5	Apply the user centered design and review the design.

CP7026-Software Quality Assurances

CO	Course Outcomes
C204.1	Understand the basics of Quality models and assurance process
C204.2	Understand the various Verification techniques
C204.3	Explain the different approaches for testing
C204.4	Outline the various structural testing
C204.5	Summarize the various functional testing with the testing attributes.

CP7311-Project Work (Phase- I)

CO	Course Outcomes
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

CP7411-Project Work (Phase-II)

CO	Course Outcomes
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 acquired outcomes based on evaluation metrics
C206.5	Examine the completed task and compile the project report

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