YEAR/SEMESTER III –II

**Distributed Systems**

CO1- Describe the Distributed Systems and System models

CO2- Define and understand the need of clocks & global states in a distributed system

CO3- Evaluate Algorithms to set the criteria for the process to access the common resource in a distributed system under mutual exclusion

CO4- Implement Inter Process Communication using

CO5- Use Consistency models in Distributed Systems

**Information Security**

CO1- Understand security concepts, Ethics in Information Security

CO2- Understand security threats, and the security services and mechanisms to counter them

CO3- Comprehend and apply relevant cryptographic techniques

CO4- Comprehend security services and mechanisms in the network protocol stack

CO5- Comprehend and apply relevant protocol like SSL, SSH etc L2-Understanding-(Explain, Describe, Interpret, Distinguish),

CO6- Comprehend and apply email security services and mechanisms

**Object Oriented Analysis and Design**

CO1- Understand the importance of modeling and describe the activities in the different phases of Software development life cycle

CO2- Apply basic and advanced structural modeling including classes, relationships, common mechanisms, interfaces and packages to Real World Problems

CO3- Model the detailed state of a system using class and object diagram

CO4- Define events, signals, state machines, processes and threads, time and space

CO5- Model real world application that captures all the requirements of the system by using UML diagrams including interaction diagrams, Use case and Activity diagrams

CO6- Model real world application that captures all the requirements of the system by using UML diagrams including state chart, component and deployment diagrams
Software Testing Methodologies

CO1- Understand the concepts of software testing and path testing
CO2- Analyse various strategies of data flow testing and transaction flow testing.
CO3- Analyse various strategies of domain testing and logic based testing.
CO4- Compute the path product and construct regular expression which is used to identify the alternate paths from source node to destination node for any application
CO5- Execute how to do performance testing using testing tools including winrunner and jmeter respectively
CO6- Able to define and identify good and bad state graphs

Managerial Economics and Financial Analysis

CO1- Students will be able to understand economics and business economic concepts
CO2- Students will be able to differentiate different business organisations and nurture the idea of start-ups
CO3- Students will be able to build up decision making skill under uncertain business climate
CO4- To interpret the basics of financial accounting and relevance of accounting principles
CO5- Students will be able to evaluate long term investment proposals
CO6- Apply accounting concepts and methods to interpret financial statements for evaluating the financial position and performance of organizations

Web Technologies

CO1- Identify the methods to read data from web pages using php.
CO2- Identify the engineering structural design of xml and parse tree.
CO3- Able to develop java scripts.
CO4- Create applications by using the concepts like jsp and servlets
CO5- Apply jdbc and odbc technologies to create database.