#### UNIT-8

A GENERIC DIGITAL SWITCHING SYSTEM MODEL: Introduction, Scope, Hardware architecture, Software architecture, Recovery strategy, Simple call through a digital system, Common characteristics of digital switching systems. Analysis report. Reliability analysis.

# **TEXT BOOKS:**

- 1. Telecommunication and Switching, Traffic and Networks J E Flood: Pearson Education, 2002.
- 2. Digital Switching Systems, Syed R. Ali, TMH Ed 2002.

## REFERENCE BOOK:

 Digital Telephony - John C Bellamy: Wiley India India Pvt. Ltd, 3<sup>rd</sup> Ed, 2008.

# ELECTIVE -4 (GROUP D)

## DISTRIBUTED SYSTEM

Subject Code	: 10EC831	IA Marks	: 25
No. of Lecture Hrs/Week	: 04	Exam Hours	: 03
Total no. of Lecture Hrs.	: 52	Exam Marks	: 100

## UNIT - 1

CHARACTERIZATION OF DISTRIBUTED SYSTEMS: Introduction, Examples of distributed systems, Resource sharing and the web, Challenges.

#### UNIT-2

**SYSTEM MODELS:** Introduction, Architectural models, Fundamental mode.

#### UNIT - 3

**INTERPROCESS COMMUNICATION:** Introduction, The API for the internet protocols, External data representation and marshalling, Clint-server communication, Group communication.

# UNIT-4

**DISTRIBUTED OBJECTS AND REMOTE INVOCATION:** Introduction, Communication between distributed objects, Remote procedure call, Events and notifications.

D N. T.

Dept. Of Electronics & Communication Alvatoristitute of Form & Technology Mijar, MODDUL St. 574,220

#### UNIT - 5

SECURITY: Introduction, Overview of security technique cryptographic algorithms, Digital signature, Cryptography progrmatics.

#### UNIT - 6

TIME & GLOBAL STATES: Introduction, Clocks, Events, Process states, Synchronizing physical clocks, Global states, Distributed debugging.

#### UNIT-7

COORDINATION AND AGREEMENT: Distributed mutual exclusion, Elections, Multicast communication.

#### UNIT - 8

CORBA CASE STUDY: Introduction, CORBA RMI, CORBA Services.

#### **TEXT BOOK:**

"Distributed Systems, Concepts & Design", George Coulouris, Jeam Dollimore, Tim Kindberg, fourth edition, 2006. Pearson education.

#### **REFERENCE BOOK:**

"Distributed System Architecture, a Middleware Approach" Arno puder, Kay Romer, Frank Pilhofer, Morgan Kaufmann publishers.

#### **NETWORK SECURITY**

Subject Code	: 10EC832	IA Marks	: 25
No. of Lecture Hrs/Week	: 04	Exam Hours	: 03
Total no. of Lecture Hrs.	: 52	Exam Marks	: 100

### UNIT-1

Services, mechanisms and attacks, The OSI security architecture, A model for network security.

D.V.C H.O.D. Dept. Of Electronics & Communication Alvate Institute of Earny & Technology

MIRE MODERNING STATES

69