

VEER NARMAD SOUTH GUJARAT UNIVERSITY, SURAT
M.Sc. (I.T.) [Five Years Integrated Course]
M.Sc. (Information Technology)
2nd Semester Syllabus

Effective From July-2003

Paper No : 804

Paper Title : Elective – II – Distributed Computing.

[L : 4, P : 0 Hrs]

Introduction to Distributed Computing. Distribution of Data and Control: Clock Synchronization, distributed termination problem, load distribution, distributed elections, agreement problem, Deadlock in distributed systems, Introduction to Fault-tolerant computing.

High level language support for distributed computing: message passing primitives, atomic action, RPC mechanisms, Implementation of these features, Case study of some distributed languages as well as distributed programming architectures like LINDA and CORBA.COM etc.

Main Readings :

1. G F Colouris and J Dollimore: Distributed Systems : Concepts & Design Addison Wesley,1988.
2. S Mullender (ED): Distributed Systems, Addison Wesley,1988.