

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E. Computer Engineering (IT Systems and Network Security)

Semester: I

Subject Name: **Network Programming**

Subject Code: **715101**

Course Content:

Overview of computer networks, inter process communication, TCP/IP introduction, Elementary TCP sockets, TCP/IP Client/Server Examples, Elementary sockets, network programming, socket interface, Elementary UDP sockets, Data link socket structures, client server computing model, design issues, concurrency in server and clients, external data representation, remote procedural calls, Multicasting, Broadcasting.

Text Book:

1. **UNIX Network Programming:** The sockets networking API W. Richard Stevens, Bill Fenner, Andrew M. Rudoff, Addison Wesley

Reference Books:

1. Data Communication & Networking Forouzan
2. Fundamentals of Principles, Technologies computers and And Protocols For Network networks , Natalia Olifer/Wiley
3. Linux socket programming by example Warren W. Gay, Warren Gay