

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Semester: I

Subject Name: **Cloud Computing (Elective I & II- Group 1)**

Subject Code: **715108**

Course Content

Review for networking basics and TCP/IP, Introduction to cloud computing, Introduction to data centers: servers, data storage, networking and virtualization, Data center networking: Ethernet, network topologies, routing, addressing, transport layer protocols, Introduction to server virtualization software: VMware VSphere Virtual machine management: configuration, placement and resource allocation, Power efficiency in virtual data centers, Fault tolerance in virtual data centers, scheduling, performance, Case studies

Text Book:

Cloud Computing Bible, Barrie Sosinsky, Wiley India Pvt Ltd

Reference Book:

Cloud Computing and SOA Convergence in Your Enterprise: A Step-by-Step Guide, David S. Linthicum, and Pearson