

GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Semester: 2

Computer Science & Engineering

Subject Name Major Elective III- Grid Computing

Sr.No	Course content
1.	Environment: Grid computing environments. Topics: Overview of GCE; Programming models; Middleware for building grid computing environments; Language support (MPI- G, MPI-G2, etc) for grid computing; Meta models for grid programming; Security.
2.	Applications. Deals with case studies, how the global computing infrastructure has become a reality for collaborative complex data intensive computing aid for federated database services, web services, bioinformatics
3.	It will also include among others some selection of topics from Seti project, Sun grid engine, Skyserver and some national grid projects
4.	Monitoring and evaluation: It will include following: Monitoring; Scheduling; Performance tuning; Debugging and performance diagnostic issues;

Reference Books:

1. Grid Computing by Joshy Joseph, Craig Fellenstein, Provided by Prentice Hall, IBM Press
2. Grid Computing by Springer LNCS 2970