GUJARAT TECHNOLOGICAL UNIVERSITY

M.E Semester: III

Computer Engineering

Subject Name **Real Time Systems**

Sr.No	Course content
1.	I**ntroduction:** Real-time systems, Properties, Misconceptions, Real-Time tasks, scheduling results.
2.	**Uniprocessor Real-Time System:** Task Scheduling, Resource access control Protocols, Overload handling, Feedback control scheduling.
3.	**Multiprocessor Real-Time System:** Task Scheduling, Fault-tolerance, and Resource Reclaiming.
4.	**Distributed Real-Time System:** Global scheduling-transfer, information, and Location policies.
5.	**Real-time Networks:** Real-time channel, Packet scheduling, Real-time MAC Protocols.
6.	**Real-time OS:** RT-Linux, Case studies of RTOS, Real-time CORBA.
7.	**Other Issues:** Architectural support, Language support, Real-time Database.

Reference Books:

1. Real Time Systems Jane Liu
2. Linux for Embedded and Real-Time applications Doug Abbott, Newnes