

# **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **M.E. Computer Engineering**

### **(Wireless Mobile Computing)**

#### **Semester: I**

Subject Name: **OS Programming**  
Subject Code: **715302**

#### **Course Content:**

Operating System Concepts, What is an OS? Processes, Scheduling & Synchronization Memory management, Virtual Memory and Paging, Linux Architecture, Programming in Linux Linux Shell Programming, Writing Device Drivers, Configuring and Building GNU Cross-tool chain Configuring and Compiling Linux, Virtual File System, Porting Linux on Target Hardware

#### **Text Books:**

1. Silberschatz A. and Galvin: "Operating System Concepts", Wiley.
2. Beginning Linux Programming by Richard Stone/Wrox

#### **Reference Books:**

1. Milankovic M., "Operating System: Concept & Design", McGraw Hill.
2. Tanenbaum A.S., "Operating System Design & Implementation"/Practice Hall
3. Dhamdhare: Operating System TMH
4. Linux Device Drivers by Corbet and Rubini/ O'Reilly
5. Understanding the Linux Kernel by Bovet and Cesati /O'Reilly
6. Linux Kernel Development by Robert Love/Que
7. Building Embedded Linux Systems by Karim Yaghmour /O'Reilly
8. Optimizing Linux Performance by Phillip G. Ezolt /Prentice Hall
9. Distributed Operating Systems concepts and design - P.K.Sinha(PHI).
10. Advanced Operating System - Singhal
11. Distributed Systems concepts and design-G.Coulouris,J.Dollimore & T.Kindberg