

CS 503: ADVANCED OPERATING SYSTEM (3-0-0: 3)

Introduction, Functions, Design approaches: layered, kernel based, VM approach

Memory and Process Management : Different memory management schemes ,Best method for a particular situation.

Process synchronization: Various mechanisms to ensure the orderly execution of cooperating processes , logical address space, different file systems

Mobile operating system: features, concepts and challenges. Case study :Android OS

Real time Operating system, embedded operating system Distributed operating system: Basic concepts and design issues

Text Books and References

1. Mukesh Singhal, "Advanced Concept in Operating Systems", Tata McGraw Hill.
2. W. Stalling, "Operating Systems: Internals and Design Principles", Pearson.
3. Tanenbaum, "Operating Systems: Design and Implementaion", Eastern Economy Edition.
4. P.K. Sinha, "Distributed Operating system: Concepts and Design", PHI.