

BCSC0803: OPERATING SYSTEMS LAB

Objective: *The lab aims to develop understanding the operation of UNIX operating system.*

Credits:1

L-T-P-J:0-0-2-0

Module No.	Content	Teaching Hours
I, II and III	<ul style="list-style-type: none">Implement the following basic commands (with options) used in UNIX/LINUX OS.Write and implement the basic vi editor commands.Shell scripts that use simple commands.Decision based Shell scripts.Shell scripts related to strings.Shell scripts using pipes.Shell scripts with loop statements.Demonstration and solution for race condition.Demonstration and use of System Calls.Implement the basics of IPC in UNIX.	24

Reference Books:

- Sibsankar Halder and Alex A Aravind (2009), "Operating Systems", 6th Edition, Pearson Education.
- Harvey M Dietel (2002), "An Introduction to Operating System", 2nd Edition, Pearson Education.
- D M Dhamdhare (2006), "Operating Systems: A Concept Based Approach", 2nd Edition.
- M. J. Bach. (1986), "Design of the Unix Operating System", PHI.

Outcome: After completion of course, the student will be able to:

- Various operations on UNIX operating systems.
- Understand the working of systems calls.
- Understand and solve message passing in Unix operating system.