**Lesson Plan (Session- 2025-26)**  
**B. C. A. – II, Sem. – 3rd**

**Linux and Shell Programming**

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| **S. No.** | **Month** | **Contents** |
| 1 | July-August | Introduction to Linux: Linux distributions, Overview of Linux operating system, Linux architecture, Features of Linux, Accessing Linux system, Starting and shutting down system, Logging in and Logging out, Comparison of Linux with other operating systems. |
| 2 | September | Commands in Linux: General-Purpose commands, File oriented commands, directory oriented commands, Communication-oriented commands, process oriented commands, etc. Regular expressions & Filters in Linux: Simple filters viz. more, wc, diff, sort, uniq, grep; Introducing regular expressions.  **REVISION OF SYLLABUS COVERED YET AND ASSIGNMENT 1** |
| 3 | October | Linux file system: Linux files, inodes and structure and file system, file system components, standard file system, file system types. Processes in Linux: Starting and Stopping Processes, Initialization Processes, Mechanism of process creation, Job control in linux using at, batch, cron & time.  **REVISION OF SYLLABUS COVERED YET AND ASSIGNMENT 2 AND SESSIONAL** |
| 4 | November | Shell Programming: vi editor, shell variables, I/O in shell, control structures, loops, subprograms, creating & executing shell scripts in linux.  **Discussion on short questions based on covered chapter Revision of Syllabus** |