Subject Name: **Operating System**

Subject Code: **22CS005**

Session: **2022-23**

Department: **DCSE**

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| **S. No.** | **Experiments** | **Page Number** | **Remarks** |
| 1 | **Installation**: Configuration & Customizations of Linux  **Introduction to GCC compiler:** Basics of GCC, Compilation of program, Execution of program, Time stamping, Automating the execution using Make file. |  |  |
| 2 | Implement Process concepts using C language by Printing process Id, Execute Linux command as sub process, Creating and executing process using fork and exec system calls. |  |  |
| 3 | Implement FCFS, SJF, priority scheduling, and RR scheduling algorithms in C language. |  |  |
| 4 | Implement the basic and user status commands like: su, sudo, man, help, history, who, whoami, id, uname, uptime, free, tty, cal, date, hostname, reboot, clear |  |  |
| 5 | Implement deadlock in C by using shared variable. |  |  |
| 6 | File system: Introduction to File system, File system Architecture and File Types. |  |  |
| 7 | Implement the commands that is used for Creating and Manipulating files: cat, cp, mv, rm, ls and its options, touch and their options, which is, where is, what is |  |  |
| 8 | Implement Directory oriented commands: cd, pwd, mkdir, rmdir |  |  |
| 9 | Implement File system commands: Comparing Files using diff, cmp, comm |  |  |