

## 5CS9A OPERATING SYSTEMS SIMULATION LAB

**Class: V Sem. B.Tech.**

**Evaluation Branch: Computer Engg.**

**Schedule per Week Practical Hrs : 3**

**Examination Time = Four (4) Hours**

**Maximum Marks = 100 [Sessional/Mid-term (60) & End-term (40)]**

**All topics are covered.**

Objectives: Understand the basic functions of operating systems. In depth knowledge of the algorithms used for implementing the tasks performed by the operating systems. Understand & simulate strategies used in Linux & Windows operating systems. Develop aptitude for carrying out research in the area of operating system. Suggested Tools: Operating system simulator- MOSS preferably on Linux platform (Available for free download from <http://www.ontko.com/moss/>).

Recommended Exercises: A. Exercises shall be given on simulation of algorithms used for the tasks performed by the operating systems.

Following modules of the simulator may be used: Scheduling Deadlock Memory Management Systems File system simulator Algorithms described in the text may be assigned. The simulation results such as average latency, hit & Miss Ratios or other performance parameters may be computed.

B. One exercise shall be on simulation of algorithms reported in the recent conferences/ journals and reproducing the results reported therein.