

IT8711 FOSS AND CLOUD COMPUTING LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To learn and develop applications using gcc and make
- To learn and use version control systems
- To develop web applications in cloud
- To learn the design and development process involved in creating a cloud based application
- To learn to implement and use parallel programming using Hadoop
- Use gcc to compile c-programs. Split the programs to different modules and create an application using make command.
- Use version control systems command to clone, commit, push, fetch, pull, checkout, reset, and delete repositories.
- Install Virtual box/VMware Workstation with different flavours of linux or windows OS on top of windows7 or 8.
- Install a C compiler in the virtual machine created using virtual box and execute Simple Programs
- Install Google App Engine. Create hello world app and other simple web applications using python/java.
- Use GAE launcher to launch the web applications.
- Simulate a cloud scenario using Cloud Sim and run a scheduling algorithm that is not present in Cloud Sim.
- Find a procedure to transfer the files from one virtual machine to another virtual machine.
- Find a procedure to launch virtual machine using try stack (Online Open stack Demo Version)
- Install Hadoop single node cluster and run simple applications like wordcount.