

INT65D:OPEN SOURCE TECHNOLOGIES LABORATORY

L:0 T:0 P:2 Credits:1

Course Outcomes: Through this course students should be able to

- CO1 :: use Git and GitHub for version control.
- CO2 :: examine code repositories in Git.
- CO3 :: execute and test local web servers.
- CO4 :: practice CMS tools like WordPress, Drupal, Joomla.
- CO5 :: demonstrate basic shell scripts .
- CO6 :: use loops in shell scripting for automation tasks.

List of Practicals / Experiments:

Introduction to Git and GitHub

- Setting up an account on GitHub and configuring Git.

Remote Repositories and Git Workflow

- Creating and cloning repository.

Git Branching and Collaborative Development

- Creating branches and merging branches in Git.

Web Server Configuration & Setup

- Installation of WAMP/LAMP/XAMP server.

Exploring CMS

- Installation of WordPress and exploring its various features.
- Installation of Drupal and Identify key features.
- Installation of Joomla and Describe its functionalities

Shell Scripting

- Write a shell script that prints arguments with "Hello".
- Write a shell script to print a sequence using a while loop.

Text Books:

1. OPEN SOURCE TECHNOLOGIES by SUGANDHI MALHOTRA & NAVDEEP KAUR, EAGLE PRAKASHAN
2. OPEN SOURCE WEB DEVELOPMENT WITH LAMP by JAMES LEE AND BRENT WARE, ADDISON-WESLEY
3. PHP: A BEGINNER'S GUIDE by VIKRAM VASWANI, MCGRAW HILL EDUCATION
4. SAMS TEACH YOURSELF PHP,MYSQL AND APACHE by JULIE C MELONI, PEARSON

References:

1. MYSQL: THE COMPLETE REFERENCE by VIKRAM VASWANI, MCGRAW HILL EDUCATION
2. PHP:THE COMPLETE REFERENCE by HOLZNER, MCGRAW HILL EDUCATION
3. LINUX IN A NUT SHELL by ELLEN SIEVER, STEPHEN SPAINHOUR, STEPHEN FIGGINS AND JESSICA P. HEKMAN, O'REILLY
4. PERSPECTIVES ON FREE AND OPEN SOURCE SOFTWARE by BRIAN FITZGERALD, MIT Press

