

MCA 507 F

OPEN SOURCE TECHNOLOGIES

UNIT I:

Open Source Definition, The distribution terms of open source software, open source technology importance, Free and Open Source Software (FOSS), LAMP (Linux, Apache, MySQL, PHP, Python, and Perl.). Benefits, Perspectives of Open Source software Linux and Open Source, Linux Usage Basics: Logging into the system, changing users and editing text files. Running Commands and Getting Help, Browsing the File system, Users, Groups and permissions

UNIT II:

Installation of Linux interactively, Perform user and group administration, Administer the Linux printing subsystem, Automate tasks with at, cron, Install, update, query and remove software packages with RPM. Accessing and Running Applications: cc compiler,gcc Compiler, Mozilla Firefox. Multimedia in Linux: Listening to Audio, Playing video, Using Digital Camera, Recording music / video CDs. Publishing: Open office, Working with Graphics, Printing Documents, Displaying documents with Ghostscript and Acrobat, Using Scanners driven by SANE.

UNIT III:

Introduction to Web server.Installing Apache on Linux: httpd service. PHP: Testing Installation. Basics of PHP scripts, Variables, Data types, Operators and Expressions, Constants, Flow control functions, If statement, Loops, Arrays, Strings, Dates and Times,Forms

UNIT IV:

MySQL : Configuring MySQL Server, working with MySQL Databases, MySQL Tables, SQL Commands – INSERT, SELECT, UPDATE, REPLACE, DELETE. Date and Time functions in MySQL. PHP – MySQL Application Development : Connecting to MySQL with PHP, Inserting data with PHP, Retrieving data with PHP. Developing PHP scripts for dynamic web page like feed backform,online admission form,online test.

TOTAL: 40 HOURS

TEXT BOOKS:

1. Open Source Web Development with LAMP: Using Linux, Apache, MySQL, Perl, and PHP James Lee, Brent Ware. Pub: Addison Wesley
2. Professional LAMP: Linux, Apache, MySQL and PHP5 Web Development, Jason Gerner, Morgan Owens, Elizabeth Naramore, Matt Warden, Wrox Publication

REFERENCES:

1. Red Hat Linux Bible Christopher Negus Wiley Publishing ISBN : 0-7645-4333-4
 2. PHP, MySQL and Apache Julie C Meloni Pearson Education ISBN : 81-297-0443-9
 3. The Complete Reference Linux Peterson Tata McGRAW HILL ISBN : 0-07-044489-7
- UNIX using Linux Jack Dent, Tony Gaddis, Pub: Course Technolog (Thomson Learning), ISBN : 981-240-218-7