

35282 – OPEN SOURCE SOFTWARE

DETAILED SYLLABUS

Unit – I

1.1 Introduction : Need of Open Sources – Advantages of Open Sources – Applications – FOSS – FOSS usage – Free Software Movement, Commercial aspects of Open Source movement - Certification courses issues - global and Indian. Application of Open Sources

1.2 Open source software operating systems – LINUX – features of linux – linux architecture - Linux advanced concepts

1.3 Open SPARC Project – Open source compilers – Model driven architecture – Eclipse IDE Platform

Unit – II

2.1 Introduction: What is PHP? - Basic Syntax of PHP - programming in web environment - Common PHP Script Elements - Using Variables - Constants – Data types - Operators ; Statements - Working With Arrays –Using Functions – OOP - String Manipulation and Regular Expression

2.2 File and Directory Handling - Including Files - File Access

2.3 Working With Forms -Processing Forms -Form Validation – Introduction to advanced PHP concept Simple programs Using PHP

Unit –III

3.1 MySQL: Introduction - Setting up an account - Starting, Terminating and writing your own MySQL Programs – Record Selection Technology - Working with Strings – Date and Time - Sorting Query Results module – Generating Summary – Working with Metadata – Using Sequences – MySQL and Web

3.2 PHP and SQL database: PHP and LDAP ; PHP Connectivity ; Sending and receiving emails

3.3 PHP Database Connectivity: Retrieving data from MySQL - Manipulating data in MySQL using PHP

Unit – IV

4.1 Basic features of Python: Overview – Installing – Running in windows/Linux

4.2 Variables and Strings: Data types - Operators – Decision Control – Conditional Statements - Loops – Example Programs

4.3 Sequences: Lists: Introduction –Fixed size lists and arrays – Lists and Loops – Assignment and references –Identity and equality – Sorted lists – Tuples: Tuples and string formatting – String functions - Sets: Unordered Collections – Simple programs Dictionaries, Sets)Using modules – File Handling -Exception – Handling exception

4.4 Dictionaries : Introduction – Combining two dictionaries with UPDATE – Making copies – Persistent variables – Internal Dictionaries

4.5 Functions and Files : Functions - File Handling – Exception – Handling Exceptions

Unit – V

5.1 WEB SERVER : Apache Web server – Working with web server – Configuring and using apache web server

5.2. Open Source Software tools and Processors : Introduction – Eclipse IDE Platform - Compilers – Model driven architecture tools

5.3CASE STUDY: Government Policy toward OpenSource (E- Governance) – Wikipedia as an open Source Project

REFERENCE BOOKS:

1. The Complete Reference Linux Richard Peterson TataMcGraw Hill, New Delhi Third Edition
- 2.Web Programming Chris Bates Wiley India, New Delhi Third Edition, Reprint 2011
3. MySQL Bible Steve Suchring John Wiley sons 2002
- 4.Programming PHP Rasmus Lerdorf and Levin Tatroe O'Reilly Publications 2002