

Third Year B.C.A. (Under Science) Semester V

Course Code: BCA 502

Total Contact Hours: 48hrs.(60 lectures)

Total Marks: 100

Course Title: Advanced Web Technology

Total Credits: 04

Teaching Scheme: Theory- 05 Lect. /Week

Objectives -:

1. To know & understand concepts of internet programming.

Unit No	Contents	No Of Lectures
1	Introduction to Object Oriented Programming in PHP 1.1 Classes 1.2 Objects 1.3 Encapsulation 1.4 Constructor and Destructor 1.5 Inheritance 1.6 Interfaces 1.7 Introspection	9
2	Web Techniques 2.1 Superglobal Variables 2.2 Server information 2.3 Processing forms 2.4 File Uploads 2.5 Setting response headers 2.6 Maintaining state	10
3	Files and Directories 3.1 Working with files and directories 3.2 Opening and Closing 3.3 Getting information about file 3.4 Reading and writing characters in file 3.5 Rename and delete files 3.6 Random access to file data 3.7 Getting information on file 3.8 Ownership and permissions	9
4	Databases(Postgresql) 4.1 Using PHP to access/insert/update/delete a database tables 4.2 Relational databases and SQL 4.3 PEAR DB basics 4.4 Advanced database techniques 4.5 Sample application	6
5	XML 5.1 What is XML? 5.2 XML document Structure 5.3 PHP and XML 5.4 XML parser 5.5 The document object model	7

	5.6 The simple XML extension 5.7 Changing a value with simple XML	
6	Ajax 6.1 Understanding java scripts for AJAX 6.2 AJAX web application model 6.3 AJAX –PHP framework 6.4 Performing AJAX validation 6.5 Handling XML data using php and AJAX 6.6 Connecting database using php and AJAX	7

Reference Books :-

1. Complete HTML- Thomas Powell
2. HTML and JavaScript–Ivan Bayross
3. Programming PHP By Rasmus Lerdorfand Kevin Tatroe, O'Reilly publication
4. Beginning PHP5, Wrox publication
5. PHP for Beginners, SPD publication