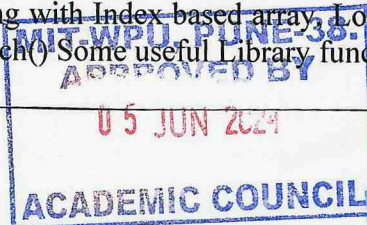


Course Structure

Course Code	BCA30020				
Course Category	Program Major				
Course Title	Advanced Web Technologies				
Teaching Scheme	Lectur es	Tutoria ls	Laborator y / Practical	Proje ct	Tot al
Weekly load hours	3	-	2	-	5
Credits	3	-	1	-	4
Assessment Scheme Code	TL3				
<u>Pre-requisites:</u> Need basics of web technologies and basics of Programming concepts.					
<u>Course Objectives:</u> 1. To understand Web programming concepts with respect to web browser and web server. 2. To understand basics and lexical structure of PHP. 3. Design skills of Web Applications Development using HTML, CSS, Javascript with PHP 4. To develop object-oriented concepts of PHP.					
<u>Course Outcomes:</u> Student will able to 1. To create dynamic web pages using PHP 2. Students will able to use built in array and string functions 3. Students will able to use object oriented concepts to design web pages 4. Students will able to handle files and directories					
<u>Course Contents:</u> Unit 1 : Introduction to PHP :10 Evaluation of PHP, Language Basics, Defining variable and constant, Data type Operator and Expression, Decisions & Loops, Capturing Form Data, Dealing with Multi-value filed, Generating File uploaded form, Redirecting a form after submission Unit 2 : Function & String: 10 What is a function, Define a function, Call by value and Call by reference, Variable function, Anonymous function, Recursive function, Creating and accessing String, Searching & Replacing String, Formatting String, Regular, expression & Pattern matching in Php, Splitting a string with a Regular, Expression, String Related Library function Unit 3 : Working with Array: 10 Anatomy of an Array, Creating index based and Associative array, Accessing array Element, Looping with Index-based array, Looping with associative array using each() and foreach() Some useful Library function.					



Unit 4 : Introduction to Object Oriented Programming: 10

Introduction, The new keyword and constructor, Destructor, Access method and, properties using \$this, variable, Public, private, protected properties and methods, Static properties and method, Instance of operator, Abstract method and class Interface Final

Unit 5: Working with file and Directories: 5

Understanding file & directory, Opening and closing a file, Copying, renaming and deleting a file, Working with directories, File Uploading & Downloading.

Learning Resources:

Text Books/Reference Books:

7. Advanced Web Technologies, Rajinder J. Arora
8. ADVANCED WEB TECHNOLOGIES, SHALAKA SAKHREKAR, A
B NIMBALKAR, Fifth Edition

Supplementary Reading:

6. Programming PHP by Rasmus Lerdorf and Kevin Tatroe, O'Reilly publication
7. Beginning PHP 5, Wrox publication
8. AJAX Black Book, Kogent solution
9. Mastering PHP, BPB Publication

Web Resources :

Weblinks:

3. <http://www.w3schools.com>
4. <https://www.javatpoint.com/php-tutorial>
5. <https://www.php.net/>

MOOCs: Online courses for self-learning

Courses by NPTEL and MIT Open Courseware

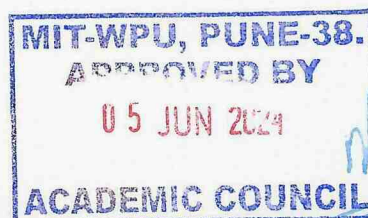
etc Pedagogy:

Participative Learning, discussions,

problem solving,

assignments,

Lab Assignment



2000