

Web Technologies

Semester V	Subject Code: BC51702	Lectures: 60
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Objectives:

The syllabus aims in equipping students with,

- Understanding the concepts of internet programming
- Understanding Client & Server Communication system
- Developing web based applications using PHP

Unit 1: Web Essentials & Mark up Languages	12
<ul style="list-style-type: none"> • Clients- Servers and Communication • Internet-Basic ,Internet ,Protocols(HTTP,FTP,IP) • World Wide Web(WWW) • HTTP request message, HTTP response message • Introduction to HTML 5 • Basic HTML Structure • Common HTML Tags • Physical and Logical HTML • Types of Images, client side and server-side Image mapping • List, Table, Frames • Embedding Audio, Video • HTML form and form elements • Introduction to HTML Front Page • Introduction to CSS • CSS with HTML 	

Unit 2: Introduction to PHP	10
<ul style="list-style-type: none"> • Introduction to PHP • What does PHP do? • Lexical structure • Language basics • Variable, constant, keywords, Data Types • Control Structures • Variables variable • Type casting, Type Juggling • \$_GET, \$_POST,\$_REQUEST Variables 	



Unit 3: Function and String in PHP	10
<ul style="list-style-type: none">• Defining and calling a function• Default parameters• Variable parameters, Missing Parameters• Variable function, Anonymous function• Types of strings in PHP• Printing functions• Encoding and escaping• Comparing strings• Manipulating and searching strings	

Unit 4: Arrays in PHP	08
<ul style="list-style-type: none">• Indexed Vs Associative arrays• Identifying elements of an array• Storing data in arrays• Multidimensional arrays• Extracting multiple values• Converting between arrays and variables• Traversing arrays• Sorting• Action on entire arrays	

Unit 5: Implementation of Object Oriented Programming in PHP	08
<ul style="list-style-type: none">• Classes• Objects• Introspection• Serialization• Inheritance• Interfaces• Encapsulation	

*Contact hours – 12 hours



Reference Books:

1. Rasmus Lerdorf and Kevin Tatroe, *Programming PHP*, O'Reilly publication
2. *Beginning PHP 5*, Wrox publication
3. *PHP web services*, Wrox publication
4. Holzner, Paraglyph Press, *HTML Black Book*

