



**CHRIST**  
(DEEMED TO BE UNIVERSITY)  
BANGALORE • INDIA

## DEPARTMENT - COMPUTER SCIENCE

### Course Pack FOR WEB TECHNOLOGY LAB-BCA453

#### BCA453 - WEB TECHNOLOGY LAB

Total Teaching Hours For Semester : 60

Total Teaching Hours For Semester : 4

Max Marks : 100

Credits : 2

#### Course Objectives/Course Description:

This course introduces World Wide Web Consortium W3C standard markup language and services of the Internet. Topics include creating and designing web pages using HTML, CSS and data base connectivity to the web page using PHP & MySQL. Objective of the course is • To help the students getting started with web programming using HTML, PHP and MySQL. .

#### Learning Outcome

Upon successful completion of the course, the students would be able to • Create static HTML pages. • Create dynamic webpages using PHP and MySQL.

#### Unit-1

Teaching Hours:20

#### HTML

Introduction to Hyper Text Markup Language, Key components of HTML document, HTML elements, Headers, Linking, Images, Unordered Lists, Nested and ordered Lists, HTML Tables and Formatting, HTML Forms, Internal Linking, Creating and Using Image Maps, frames. Programs: 1. Create a HTML page that will have the following: Headers, Linking and Images. 2. Create a HTML page that will have the following: Frames, Unordered Lists, Nested and ordered Lists. 3. Create a HTML page that will have the following: Tables and Formatting. 4. Create a HTML page that will have the following: Forms, Creating and Using Image Maps, Tags

#### Unit-2

Teaching Hours:20

#### PHP

Essential PHP, Creating a simple PHP program, operators and Flow Control, strings and arrays, creating functions. Programs: 5. Displaying HTML content using PHP. 6. FORM processing using PHP. 7. FORM validation using PHP

#### Unit-3

Teaching Hours:20

#### PHP and MySQL

Connecting to MySQL from PHP, PHP MySQL Connectivity, Creating Databases and Tables with PHP. Programs: 8. Storing data in MYSQL using PHP. 9. Retrieving data from MYSQL using PHP. 10. Drill down reports using PHP

#### Text Books And Reference Books:

[1] Steven M. Schafer, HTML, XHTML and CSS Bible, 5th Edition, Wiley-Eastern Publishing Inc., 2011.

#### Essential Reading / Recommended Reading:

[1] Mercer W. Dave, Allan Kent, Steven D Nowichi, David Mercer, Dan Squier, Wanky Choi Beginning PHP5, Wiley-Dreamtech India Pvt. Ltd., 2012.

#### Additional Information

Guidelines: • The output of the programs should be neatly formatted. • The source code should be indented. • The programs need to be interactive. • Data validations can be done wherever applicable. • Include comments to improve the readability of the program. • Use meaningful variable names

Evaluation Pattern

CIA-50%ESE-50%