

Second Year B.C.A. (Science) Semester IV  
(To be implemented from Academic year 2017-18)

Course Code: BCA 402

Total Contact Hours: 48hrs.

Total Marks: 100

Course Title: Introduction to Web Technology

Total Credits: 04

Teaching Scheme: Theory- 05 Lect. /Week

<b>Unit No</b>	<b>Contents</b>	<b>No Of Lectures</b>
1	<b>Introduction to Web Technologies</b> 1.1 Introduction to Web Technologies 1.2 How the Website Works? 1.3 Clients- Servers and Communication 1.4 Client and Server Scripting Languages 1.5 Internet-Basic, Internet Protocols(HTTP,FTP,IP) 1.6 World Wide Web(WWW) 1.7 HTTP request message, HTTP response message 1.8 Types of Websites(Static and Dynamic Websites)	7
2	<b>Advance HTML tags</b> 2.1 HTML Tags 2.2 Embedding Audio and Video. 2.3 Introduction to elements of HTML 2.4 Working with Text 2.5 Working with Lists, Tables and Frames 2.6 Working with Hyperlinks, Images and Multimedia 2.7 Working with Forms and controls 2.8 Concept of CSS, Types of CSS 2.9 Creating Style Sheet	

3	<b>JAVA Script</b> <b>3.1</b> Introduction to client side scripting <b>3.2</b> Introduction to Java Script <b>3.3</b> Identifier & operator, control structure <b>3.4</b> Using Functions <b>3.5</b> Event Handling in Java Scripts <b>3.6</b> Document object model(DOM), <b>3.7</b> DOM Objects(window, navigator, history, location) <b>3.8</b> Predefined functions, math & string functions <b>3.9</b> Array in Java scripts <b>3.10</b> Event handling in Java script <b>3.11</b> Sufficient examples to be covered	12
5	<b>Arrays in PHP</b> <b>4.1</b> Indexed Vs Associative arrays <b>4.2</b> Identifying elements of an array <b>4.3</b> Storing data in arrays <b>4.4</b> Multidimensional arrays <b>4.5</b> Extracting multiple values <b>4.6</b> Converting between arrays and variables <b>4.7</b> Traversing arrays <b>4.8</b> Sorting <b>4.9</b> Action on entire arrays <b>4.10</b> Using Arrays	10
6	<b>Function in PHP</b> <b>5.1</b> Defining and calling a function <b>5.2</b> Default parameters, Variable parameters, Missing parameters Variable function, Anonymous function.	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