BCA 406: Web Based System Development	
Teaching Scheme Lectures: 3 hrs/Week Tutorials: 1 hr/Week Credits: 4	**Examination Scheme** Class Test - 12Marks Teachers Assessment - 6Marks Attendance – 12 Marks End Semester Exam – 70 marks

Prerequisite:-Java Programming (BCA502),Database management system (BCA302),Software Engineering (BCA401)

Course Objectives:

1. The main objective of this course to introduce the skills and project-based experience needed for entry into web application and development careers.
2. Objective of this course is to understand how to develop web pages and communicate with the server side.
3. To implement web-based information systems using various specialized web tools and technologies.
4. To understand concepts and specialist theories of web based system development.
5. To understand the development phases of web-based systems.

Detailed Syllabus

UNIT I **Introduction to Web Based System Development:** History of web, Growth of the Web, Protocols, governing the web, Introduction to Cyber Laws in India, Introduction to International Cyber Laws, Web project, Web Team, Team dynamics.
UNIT II **Communication Issues:** the Client, Multi-department & Large scales Websites, Quantity Assurance and testing, Technological advance and Impact on Web Teams.
UNIT III **HTML:** HTML Formatting Tags, Links, List, Tables, Frames, Forms, Comments in HTML.
UNIT IV **Web Scripting:** DHTML, JavaScript Introduction, documents, and documents, forms, Statements, Functions, Object in JavaScript, Events and Event Handling Arrays, FORMS, Buttons, Checkboxes, Text fields and Text areas.
UNIT V **XML:** Introduction, Displaying an XML document, Data Interchange with an XML document, document type definitions, Parsers using XML, Client side usage, Server Side usage.
UNIT VI **Introduction of Server Side Programming:** JSP, Tomcat Server, ASP, ASP.NET, PHP
Text and Reference Books 1. Collaborative Web Development, Burdman, Addison Wesley, 1st Edition, 1999. 2. Developing E-Commerce Sites, Sharma, Sharma, Addison Wesley, 1st Edition. 3. Web Technologies Part II, Ivan Bayross, BPB Publications, 2008.

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4. Essential COM, DON Box, Addison Wesley, 1997.
5. Bhave, "Programming with Java", Pearson Education
6. ASP Developer's Guide, Greg Buczek, TMH, October, 2002.
7. Ullman, "PHP for the Web: Visual QuickStart Guide", Pearson Education

Course Outcomes:

After completing the course, students will be able to:

1. Learn different types of roles in web team and duties in web project in development.
2. Learn programming builds and develop programs that use strings, dates, arrays, functions, classes and objects.
3. Implement different parameters to create secure web sites.
4. Design and develop web pages for any web application.
5. Gather the skills to implement software for a client-server environment by using different programming and scripting languages.
6. Learn markup language to build own tags to create web pages and server side scripting language to communicate between client and server.