

Course Code	Course Name	Course Type	Cd	L	T	P	Marks		
							Internal	Final Exam	Total
MCA-302	Web Technologies	PCC	4	4	0	0	40	60	100

**Course Outcomes**

At the end of the course the student will be able to	
CO1	Develop a dynamic webpage by the use of java script and DHTML.
CO2	Write a well-formed web document.
CO3	Write server application in java and JSP and to catch form data sent from client, process it and store it on database.
CO4	Implement client and server programming in .NET Technologies.
CO5	Connect web applications to a DBMS and perform operations on Database

**Detailed Syllabus****Section-A**

**UNIT-1:** HTML & CSS: Text Formatting Tags, META Tag, Adding Lists, Table, embedding objects, Paragraphs, Formatting, Links, Head, Images, Tables, Lists, Blocks, Layout, Forms, Colors, Color values, Frame and Form, Form Controls, CSS, Defining Styles, Elements of Style, Linking a Style Sheet to an HTML Document, In-line Styles, External Style Sheets, Internal Style Sheets, Introduction to XML

**(10Hrs)**

**UNIT-2:** Java Script: Variables, String manipulation, Mathematical Functions, Statements, Operators, Arrays, and Functions, Data and Objects, Regular Expressions, Built-in Objects, Events, Rollover, Buttons, Moving Images

**(10Hrs)**

**UNIT-3:** Servlet and JSP: Servlet Life Cycle, Servlet Request and Response Disadvantages of Servlets, Reading Headers JSP: Scripting Elements, JSP Expression, JSP Declaration, Predefined variables/objects, using user defined functions, working with Databases Using JSP, Inserting, Updating, and Deleting Database Records

**(10Hrs)****Section-B**

**UNIT-4:** ASP Controls: ASP. NET Standard Controls: Label, Textboxes, buttons, hyperlink, checkboxes, Regular expressions; Server pages: Creating Server pages, page Life Cycle, HTTP Request Object, HTTP Response Object, Post back, Tracing & Debugging ASP. NET page.

**(10Hrs)**

**UNIT-5:** State Management in ASP: State Management and Types of State Management, HTTP Cookies, HTTP Session, HTTP Application, Query String Method, State Management using Post back URL, View State. Validation Controls, Data Bind Control and Types of Data Bind Controls Repeater, Data List etc.

**(10Hrs)****Textbooks**

S. No.	Name of the Books	Author	Publisher	Edition (Pub. Yr.)
1	Internet and Worldwide Web	H. M. Deitel, P. J. Dietel and A. B. Goldberg	Pearson Education.	4 <sup>th</sup> (2014)
2	JSP: The complete Reference	Phil Hana	Osborne/McGraw-Hill	1 <sup>st</sup> (2002)

**Reference Books**

S. No.	Name of the Books	Author	Publisher	Edition (Pub. Yr.)
1	Web Programming	Chris bates	Wiley Dreamtech India.	2nd