Faculty of Science

Bachelor of Computer Application (B.C.A.)
VI Semester
Paper-DSE-II
Subject: Web Technology using .NET
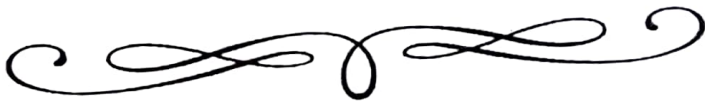
Course Outcomes

CO. No.	Course Outcomes	Cognitive Level
CO 1	Understand basics of Internet, World Wide Web(WWW), Client server Computing.	U, A
CO 2	Have Knowledge of various web browsers, familiarize with Java scripting, Client-side scripting language, Web server Architecture, Database Connectivity (DBC)	K
CO 3	Have knowledge of HTML, it's essential tags, Attributes, Text styles, Links to External Documents and different sections of a HTML page.	U
CO 4	Develop skills to generate HTML and have knowledge of Java Script and style sheets	U, Analyze
CO 5	Have knowledge of Objects, Methods, Events and Functions and various types of text, styles	U

Credit and Marking Scheme

	Credits	Marks Internal	Marks External	Total Marks
Theory	3	40	60	100
Practical	1	40	60	100
Total	4		200	

Evaluation Scheme

	Marks Internal	Marks External
Theory	3 Internal Exams of 20 Marks (During the Semester) (Best 2 will be taken)	1 External Exams (At the End of Semester)
Practical	3 Internal Exams (During the Semester) (Best 2 will be taken)	1 External Exams (At the End of Semester)

Bachelor of Computer Application (BCA)   **Subject: Web Technology using .NET**

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Content of the Course
Theory

No. of Lectures (in hours per week): 2 Hrs. per week

Total No. of Lectures: 60 Hrs.   **Maximum Marks: 60**

Units	Topics	No. of Lectures
I	**Topics Basics of Internet and Web:** The basics of Internet, World Wide Web, Web page, Home Page, Web site, Static, Dynamic and Active web page, Client server computing concepts, Web Browser, Client-Side Scripting, Server-Side Scripting, Introduction to HTML, Tags and Attributes.	10
II	**Introduction to Style Sheet-** Types, Selector, properties. **Introduction to JavaScript-** variable, operators, function, events, Array, Strings, Dialog Boxes.	10
III	**Introduction to .NET-** .NET Framework, .NET Architecture, CLR, the Just-in-Time Compiler, Garbage collection. .NET Framework class library.	10
IV	**Introduction to ASP.NET-** ASP.NET Page Life Cycle, Coding Model, Web forms, Web form controls, server controls, client controls, web forms, coding Models, Controls: TextBox, Label,Hyperlink, Button, DropDownList, ListBox, CheckBox, RadioButton, FileUpload, Validators,Masterpage.	15
V	**ASP.NET Navigation Controls:** SiteMapPath, MenuControl, TreeView **Working With Database-** Architecture of ADO.NET, Connected and Disconnected Database. Connection Class, Command Class, Data Adapter Class, and Dataset Class. Insert, Update, Delete commands and Accessing the data from database. Data Controls: FromView, GridView etc.	15

References

Text Books:
- Web Technologies — Black Book — DreamTech Press
- Beginning HTML, XHTML, CSS and Javascript by John Duckett

Reference Books:
- HTML, XHTML and CSS Bible, 5th edition, Willey India-Steven M. Schafer
- Java EE and HTML-5 Enterprise Application Development (Oracle Press) by John Brock, Arun Gupta, Geertjan Wielenga.

Web Links:
- Internet technology course by NPTEL< nptel.ac.in>courses,
- www.udemy.com

List of Practical

1. Create a web form for addition of two numbers.
2. Create a web form for Simple Interest.
3. Create a web form for Factorial.
4. Create a web form for Prime number.
5. Create a web form for matching the value of two textboxes.
6. Create a web form for Calculator.
7. Create a web form for to demonstrate the session.
8. Create a web form with one list box and three check boxes named php, java, c respectively. On check and uncheck name of the check box should be added and removed to and from the list box.
9. Create a web form with one Drop Down List and demonstrate addition of items at first and last position. Show deletion also.
10. Demonstrate File Upload control.
11. Demonstrate Validation Controls.
12. Insert user data to Database through web form.
13. Create a sample college website and use Masterpage and Menu control.
14. Create Student Registration Form and corresponding database. Fetch the data into Grid View Control.