ST. ALOYSIUS COLLEGE(AUTONOMOUS), JABALPUR

Reaccredited 'A+ 'Grade by NAAC(CGPA:3.68/4.00)
College with Potential for Excellence by UGC
DST-FIST Supported & STAR College Scheme by DBT

Faculty of Science

Bachelor of Science (B.Sc.) VI Semester
Paper-DSE-IIA
Web Technology using .NET

Course Outcomes

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

Credit and Marking Scheme

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

Evaluation Scheme

	Marks	
	Internal	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)

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Bachelor of Science (B.Sc.)   **Subject: Computer Science**
VI Semester   **Paper: DSE-IIA, Web Technology using .NET**

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 the 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, Dropdown List, List Box, Check Box, Radio Button, File Upload, Validators, Master page.	10
V	ASP.NET Navigation Controls: Sitemap Path, Menu Control, Tree View 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 access the data from the database. Data Controls: From View, Grid View, etc.	20

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

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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.