

UNIVERSITY OF MADRAS

B.Sc. DEGREE PROGRAMME IN COMPUTER SCIENCE

SYLLABUS WITH EFFECT FROM 2023-2024

Year: III

Semester: VI

Programming in ASP.NET Practical Common for B.Sc.-SA , B.Sc.-CSc		325C61
Credits 4	Lecture Hours:6 per week	
Learning Objectives: (for teachers: what they have to do in the class/lab/field) • To develop ASP.NET Web application using standard controls. • To create rich database applications using ADO.NET. • To implement file handling operations. • To utilize ASP.NET security features for authenticating the web site. • To handles SQL Server Database using ADO.NET.		
Course Outcomes: (for students: To know what they are going to learn) CO1: To identify and understand the goals and objectives of the .NET framework and ASP.NET with C# language. CO2: To develop web application using various controls. CO3: To analyse C# programming techniques in developing web applications CO4: To assess a Web application using Microsoft ADO.NET. CO5: To develop a software to solve real-world problems using ASP.NET		

List of Programs

1. Create an exposure of Web applications and tools
2. Implement the Html Controls
3. Implement the Server Controls
4. Web application using Web controls.
5. Web application using List controls.
6. Web Page design using Rich control. Validate user input using Validation controls.
Working with File concepts
7. Web application using Data Controls.
8. Data binding with Web controls
9. Data binding with Data Controls.
10. Database application to perform insert, update and delete operations.
11. Database application using Data Controls to perform insert, delete, edit, paging and sorting operation.
12. Implement the Xml classes.
13. Implement Authentication – Authorization.
14. Ticket reservation using ASP.NET controls.

Recommended Texts

1. SvetlinNakov, VeselinKolev& Co, Fundamentals of Computer Programming with C#,Faber publication, 2019.
2. Mathew, Mac Donald, The Complete Reference ASP.NET, Tata McGraw-Hill ,2015.

Reference Books

1. Herbert Schildt, The Complete Reference C#.NET, Tata McGraw-Hill,2015.
2. Kogent Learning Solutions, C# 2012 Programming Covers .NET 4.5 Black Book, Dreamtech pres,2013.
3. Anne Boehm, Joel Murach, Murach's C# 2015, Mike Murach& Associates Inc. 2016.