

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

- Create an exposure of Web applications and tools
- Implement the Html Controls
- Implement the Server Controls
- Web application using Web controls.
- Web application using List controls.
- Web Page design using Rich control. Validate user input using Validation controls.
Working with File concepts
- Web application using Data Controls.
- Data binding with Web controls
- Data binding with Data Controls.
- Database application to perform insert, update and delete operations.
- Database application using Data Controls to perform insert, delete, edit, paging and sorting operation.
- Implement the Xml classes.
- Implement Authentication – Authorization.
- Ticket reservation using ASP.NET controls.

Recommended Texts

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

Reference Books

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