GUJARAT TECHNOLOGICAL UNIVERSITY
Syllabus for Integrated MSc, 4th Semester
Branch: Information Technology
Subject Name: Dot Net Technology
Subject Code: 1340505

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE(E)	PA (M)	PA (I)	ESE (V)	
3	0	2	4	70	30	20	30	150

Course Content:

Sr. No.	Content	Teaching Hours	Module(%) Weightage
1.	**Introduction to ASP.NET:** What is ASP.NET, .Net framework 2.0, Compile Code, Web server – Internet Information Server (IIS), Architecture of ASP.NET, ASP.NET Page Lifecycle, Code Behind and Inline Coding, The Common Language Runtime, Object Oriented Concepts, Event Driven Programming	05	15
2.	**Server Control**: Post back, Data Binding, Grid View, List Box, Data list, Data binding Events, Repeater, Form view, Web Server Controls, HTML Server Controls (basic HTML Server Control), Validation Controls, Navigation Controls, Login Control, Master Page, Themes & CSS	12	20
3.	**Authentication, Authorization and Data Controls:** Membership Class, Role Class, ProfileManager Class, DataList Class, ADO.NET Architecture, Connection Object, Command Object DataAdapter Object, DataReader Object, DataSet Object, Command Builder, Database Access using ADO.NET	12	20
4.	**Web Application Management:** Communications with Web Browser, Request Object, Response Object, Server Object, Cookies, Query String, Session Management and Variable Scope, web.config and machine.config	05	15
5.	**Advanced ASP.NET:** Sitemappath, Server Control, User Control, User Profile, Web Services, Basics of Web Services, Interacting with web services, Error Handling, Unstructured Error, Structured Error, Error handling in Database	06	15

Suggested Specification table with Marks (Theory):

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10	**30**	**10**	**10**	**5**	**5**

R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Reference Books:

1. ASP.NET – A Beginner's Guide by Dave Mercer – TMH
2. ASP.NET Bible – Mridula Parihar et. Al. – Wiley India
3. Programming ASP.NET 4 – Dino Esposito
4. Professional ADO.NET – Bipin Joshi, Donny Mack, Doug Seven,Fabio Claudio Ferracchiati, Jan D Narkiewiez - Wrox
5. ASP.NET for Developers – Amundsen
6. The Complete Reference ASP.NET -Matthew MacDonald –TMH
7. ASP.NET – Black Book – dreamTech
8. Beginning ASP.NET 3.5 in C# and VB –Wrox-Imar Spaanjaars

Course Outcome:

After learning the course, the students should be able to:

No.	CO statement
CO-1	The basic concepts of .Net framework and importance of various coding techniques. This will also help students understand the role of CLR.
CO-2	To be able to understand the various server control available .NET programming language and apply them in Web Development.
CO-3	To be able to understand ADO.NET concept with Authorization & Authentication.
CO-4	To be able to learn web application management in .NET programming.
CO-5	To be able to understand various advanced controls available in .NET programming