



C. U. SHAH UNIVERSITY Wadhwan City

FACULTY OF:-Computer Science
DEPARTMENT OF:-B. Sc. (CA & IT)
SEMESTER:- V
CODE: - 4CS05NET1
NAME: - .NET TECHNOLOGY

Teaching and Evaluation Scheme

Subject Code	Name of the Subject	Teaching Scheme (Hours)				Credits	Evaluation Scheme							
		Th	Tu	Pr	Total		Theory				Practical (Marks)			Total
							Sessional Exam		University Exam		Internal		University	
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr	
4CS0NET1	.NET TECHNOLOGY	5	0	0	5	5	30	15	70	30	100	30	20	50

Objectives:

At the end of the syllabus, Student can develop a security enabled dynamic web site. He/she can also publish his/her web site.

Pre-requisites:

Student should have knowledge about HTML and CSS. He/she should have fundamental programming and scripting language knowledge.

Ch . No .	Chapter Name	Chapter Topics	Total Lectures
1	Introduction to .NET	Overview of .NET Framework, Features of .NET	4
		Components of .NET framework Like Common Language Runtime, Intermediate Language	
		Common Language Specification, Metadata, Assembly, GAC, Private and Shared Assembly	
		Manifest, Base Class Library, Namespace, Garbage Collection, COM interop	
2	OOPS Concepts With C#	Scope & Visibility Of Variable, Introduction To Class & Object	4
		Constructor, Overloading Of Operators & Methods	
		Introduction To Inheritance & its Types	
		Dispose & Finalize methods, Debugging & Error Handling.	
3	Introduction to ASP.NET	Overview of ASP.NET, Difference Between ASP and ASP.NET	6
		Understanding The IDE	
		Directory Structure of ASP.NET Web Application, Life Cycle of an ASP.NET Web Page	
		Different stages of an ASP.NET Page, ASP.NET Pages Life Cycle Events	
		Working With ASP.NET Web Page, Code Behind Page Model, Various File Types	



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		of ASP.NET	
		Overview of ASP.NET Controls, Simple Program of ASP.NET	
4	ASP.NET Controls	Introduction to The Control Class and WebControl Class	10
		Standard Controls: Label, TextBox, Literal, Button, LinkButton, ImageButton, Hyperlink, Image, ImageMap, RadioButton, RadioButtonList, CheckBox, CheckBoxList, ListBox, DropDownList, Calendar, AdRotator, FileUpload.	
		Grouping Controls: Panel, MultiView, Wizard Control.	
		Validation Controls: RequiredFieldValidator, RangeValidator, RegularExpression, CompareValidator, CustomValidator, ValidationSummary	
		Navigation Controls: SiteMapPath, Menu and TreeView	
5	State Management	About state, Why State Is Required In ASP.NET, Client Side State Management Server Side State Management, Various State Management Techniques Like View State, Query String, Cookie, Session State, Application State	4
6	Designing web sites with master page and themes	Master Pages: Simple Master Page and Nested Master Page Working With Content Place Holder and Nested Master Pages ASP.NET Themes: Working with CSS and Skin File	3
7	ADO.NET	ADO.NET Architecture, Difference Between ADO and ADO.NET Connected Architecture, Disconnected Architecture ADO.NET Classes, Connection, Command, DataReader DataSet, DataAdapter DataRow, DataColumn, DataTable DataConstraint, DataView, GridView Control, Repeater Control ListView Control, Binding Data To Controls	7
8	Security in ASP.NET	Using Login Control, Using the LoginStatus Control Using ChangePassword Control, Using PasswordRecovery Control, Using LoginView Control	3
9	Working with XML and web services	Reading Dataset from XML, Writing Dataset with XML About Web Service, Designing Web Services, Creating an XML Web Service With Visual Studio Creating Web Service Project, Declaring Web Service, Setting Web Service Attributes, Declaring Methods For Web Service	5
10	Deploying ASP.NET web application	Packaging Web Applications, Using Web.config Transformations, Deploying Database, One Click Publishing Web Applications	2
11	Custom control building	Overview of Custom Control Building , Building Fully Rendered Controls Building Composite Controls, Building Hybrid Controls View State & Control State Supporting View State, Supporting Control State	6
12	Data access with WCF data services	Overview of WCF Data Services Using Data Services with a Service Reference Using Data Services with a Data Context	4
		TOTAL	58

Teaching Methodology:

Revision, Paper Solving, Seminar, Expert Talk, MCQ Quiz, Viva Test, Programming Test

Learning Outcome:

At the end of the syllabus, students should be able to make programming ASP.Net and its various concepts.

Books Recommended:



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1. Advance .NET Technology, Chirag Patel, Dream Tech Press ISBN: 9789350042083
2. ASP.NET 4.5 Unleashed, Stephen Walther, Kevin Hoffman, Nate Dudek , Pearson Publication ISBN: 9780672336881

Reference Books:

1. Beginning ASP.NET 3.5 in C# 2008 From Novice To Professional, Matthew MacDonald, Apress ISBN: 9781430204305
2. ASP.NET 4.5 Covers C# and VB Codes Black Book Kogent Learning Solutions Inc. DreamTech Publication
3. Microsoft ADO.NET 2.0 Step By Step Rebecca Riordan, Microsoft Press, ISBN: 9780735648456