



C. U. SHAH UNIVERSITY, WADHWAN CITY.

Faculty of: **Computer Science**
 Course: **Master of Computer Applications**
 Semester: **III**
 Subject Code: **5CS03CNP1**
 Subject Name: **.NET Programming**

Sr. No.	Branch Code	Subject Code	Subject Name	Teaching hours/ Week			Credit hours	Credit Points	Evaluation Scheme/ Semester								Total
				Th	Tu	Pr			Theory				Practical				
									Internal Assessment		End Semester Exams		Internal Assessment		End Semester Exams		
				Marks	Duration	Marks			Duration	Marks	Duration	Marks	Duration				
4	5CS03CNP1	.NET Programming	4	--	4	8	6		30	1½	70	2½			50	1½	150

AIM:

At the end of this course, Student can create database. Students can have basic knowledge of dbms.

Course Outline:

Sr. No.	Course Content	Hrs.
1	Understanding .NET Platform <ul style="list-style-type: none"> • Introduction to .NET Framework, Features and Advantages • Understanding CLR & CLR Components - CTS, IL, CLS, • Managed Code, Garbage Collection, JIT, FCL 	4
2	Introduction to C# .Net <ul style="list-style-type: none"> • About C# • Evaluation of C# • Characteristics & Applications • Different Types of C# Application (Console, Windows, Web and Web Services) • Creating Simple Console Program • Executing the program, Program Structure • Understanding Main Method , Comments • C# Data Types : Values Types- Primitive Data Type, Reference Type, operators • C# control structure • Using the if statement, Using the if-else statement, Using the switch-case statement, Using the • for statement, Using the while statement, Using the do-while statement, Using the break and continue statement 	12
	Introductions to ASP.NET <ul style="list-style-type: none"> • Overview of ASP.NET, 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, 	10

	<ul style="list-style-type: none"> • Various File Types of ASP.NET, • Overview of ASP.NET Controls 	
	<p>ASP.NET Controls</p> <ul style="list-style-type: none"> • Standard Controls : Label, TextBox, Literal, Button, LinkButton, ImageButton, Hyperlink, Image, ImageMap, RadioButton, RadioButtonList, CheckBox, CheckBoxList, ListBox, DropDownList, Calendar, AdRotator, FileUpload • AJAX, User Control and Login Control • Validation Controls : Overview of the Validation Controls, RequiredFieldValidator Control RangeValidator Control , CompareValidator Control, RegularExpressionVelidator Control, CustomValidator Control ValidationSummary Control, Custom Validation Control • Designing Websites : Designing Websites with Master Pages Creating Master Pages, Modifying Master Page Content Loading Master Pages Dynamically Designing Websites with Themes Creating Themes, Adding Skins to Themes 	12
	<p>Working with ADO .Net</p> <ul style="list-style-type: none"> • ADO.NET Architecture, Difference Between ADO and ADO.NET, Connected • Architecture, Disconnected Architecture, ADO.NET Classes, Connection, • Command, DataReader, DataSet, DataAdapter, DataRow, DataColumn, • DataTable • GridView Control, Binding Data To Controls 	10
	Total	48

Learning Outcomes:

- The course is for application developers and architects who wish to become competent at designing and implementing Web applications in a .NET environment.
- After completion of this course students are able to creating & manipulating dynamic web application.

Teaching & Learning Methodology:

- Involve the learners during learning. Having someone demonstrate a skill, and giving an explanation
- Including aids such as check lists that learners can use during their practice of skills and competences Using multimedia
- The institute provides an excellent academic environment with accent on self-learning. The teaching and learning methodologies follow a rigorous regime that involves intensive and extensive working on challenging academic assignments.

REFERENCE BOOKS:

- “ASP.NET 4 Unleashed”, Stephen Walther, Kevin Hoffman, Nate Dudek Sams Publication.
- “Beginning ASP.NET 3.5 in C# 2008 From Novice To Professional”, Matthew MacDonald, Apress.
- “Advance .NET Technology”, Chirag Patel, Dream Tech Press.
- Microsoft ADO .Net, Rebecca M. Riordan, Microsoft Press