

Branch Name:	Information and Communication Technology
Program Code	ET107
Semester/Year:	Semester V/ Third Year
Course Name:	.Net Technology Practical (Professional Elective –I)
Course Code:	2ET1070504P
Pre-requisite:	Object Oriented Programming

Course Objective:

1. To analyze and evaluate various components of .net framework
2. To understand features of C#/VB using Console Application.
3. To understand Windows/Web based application using Microsoft Visual Studio.
4. To understand ADO.net based database driven .NET application.

Teaching and Examination Scheme:

Credit	Teaching Scheme Hours per week				Evaluation Scheme (Marks)								
					Theory (Marks)				Practical (Marks)				Total (Marks)
	L	T	P	Total	SEE		CCA		SEE		CCA		
					Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
1	-	-	2	2	-	-	-	-	10	25	10	25	50

Sr. No	List of Practical	Content Hours
1.	Develop a console application to display sum of digits.	2
2.	Develop a Console application to calculate Courier Service Charges of goods from source to destination with Following Constraints. Following are the cost distance matrix: Less than 100 km - 50 Rs/Kg, 100 to 200 km – 65Rs/Kg 200 to 300 km - 90 Rs/Kg Greater than 300 km - 120 Rs/K Distance in Kilometer and Total Kg of goods are the input parameter.	2
3.	Develop a Console application to Create a Student class that stores roll no, name and marks of three subjects. Add one function that calculates percentage and grade based on percentage. Calculate total students who have passed.	2
4.	Develop a Console application to demonstrate use of Property {get, set}.	2
5.	Develop a Console application to read and write to a file.	2
6.	Develop a Simple Calculator Form in Windows Application.	2
7.	Develop an ASP.net webpage to demonstrate validation controls.	2
8.	Develop an ASP.net web page to show all page events along with their order of Execution.	2

9.	Develop an ASP.net web page to upload an image and load it within same page. Repeat for multiple image upload and display all in the same page.	2
10.	Develop a Console application to demonstrate use of Property {get, set}.	2

List of Reference Books:

1. ASP.NET: The Complete Reference-Matthew Macdonald TMH, 1 July 2017
2. Beginning C# Object-Oriented Programming By Dan Clark, A press, 29 March 2013
3. Head first C# by Andrew Stellman O'Reilly, 1 November 2013
4. ASP.NET unleashed-Stephen Walther, Kevin Hoffman, NateDudek. Pearson, 14 October 2010
5. C#:The Complete Reference-Herbert Schildt TMH, 1 July 2017

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

CLO	Description	Bloom's Taxonomy Level
CLO1	Understand C# and the .NET framework namespace contents.	1 Remembering 2 Understanding
CLO2	Understand the console and GUI applications using C# .Net.	2 Understanding
CLO3	Application of various navigation techniques for integrating web pages within the site	3 Applying
CLO4	Evaluate advanced concepts related to Web Services in project development.	5 Evaluate

Mapping of CLOs with POs & PSOs

Course Learning Outcomes	Program Outcomes (POs)												Program Specific Outcomes(PSOs)			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3	PSO 4
CLO1	H	M	L	L	M	L			M	M	H	M	M	M	M	H
CLO2	M	M	M	L	M				M	M	M	L	M	M	L	M
CLO3	M	M	M	M	H	M			M	M	M	M	M	M	M	H
CLO4	M	M	M	L	M	M			M	M	M	M	M	M	M	M

H: High, M: Medium, L: Low