Visual Programming

Course Information		Assessment	
Pre-requisites:	Computer Programming	**Theory:**	20% sessional work 20% mid-semester 60% final examination
Course Code:	CS-218		
Semester:	4th	**Practical:**	40% sessional 60% final lab exams
Effective:	17CS batch and onwards		
Theory Marks:	100	**Tools:**	Quiz, assignments, tests, projects Mid-term exams Final exams
Practical Marks:	50		
Credit Hours:	3+1		
Contact Hours:	42 + 42		

Course Learning Outcomes

Upon completion of this course, students will be able to achieve following objectives:

THEORY				
CLOs		Domain	Taxonomy Level	PLOs
CLO1	**Discuss** fundamental concepts of visual programming and demonstrate the working of visual studio.	Cognitive	Level 1: Knowledge	PLO1
CLO2	**Discuss and Explain** the controls, properties and events required to design any software application.	Cognitive	Level 2: Comprehension	PLO2
ClO3	**Use** the different elements of C# programming language as building blocks to design console based applications.	Cognitive	Level 3: Application	PLO3
PRACTICAL				
CLO4	Best practices of C# computer programming to **design** and **develop** console based application.	Cognitive	Level 3: Application	PLO4
CLO5	**Design** and **Analyze** problems, develop conceptual designs (software models of Application) that **solve** those problems, and transform those designs to Visual Programs with in Visual studio.NET.	Cognitive	Level 4: Analysis	PLO5

Table 1: Course Learning Outcomes

Course CS-218	PLOs	CLO1	CLO2	CLO3	CLO4	CLO5
	PLO1	100%				
	PLO2		100%			
	PLO3			100%		
	PLO4				100%	
	PLO5					100%
	PLO6					
	PLO7					
	PLO8					
	PLO9					
	PLO10					
	PLO11					
	PLO12					

Table 2: Quantification of PLOs via CLOs of VP

Course Contents

Review of C# Syntax, Introduction to visual programming and .NET, Introduction to Visual Studio .NET, Windows based applications: Working with WinForms and Controls, Advanced User Interface Enhancement, MDI Applications. ADO.NET: Introduction to ADO.Net Data Access Components, Accessing a Database, Querying and Updating Data by Using LINQ.
Web Applications and ASP.NET: Web Applications, ASP.NET, and HTTP, Designing the User Interface for a Graphical Application using XAML, Binding Controls to Data, Styling a User Interface, ASP.NET Configuration, Server Controls and Security Fundamentals.

CLOs	**THEORY**				**PRACTICAL**				Learning Levels	PLOs	Total Marks
	Sessional (20)		Mid Exam(20)	Final Exam(60)	Sessional(20)		Objective Test (10)	VivaVoce			
	Class Test (10)	CEP(10)			OpenEnd Lab(10)	Workbook(10)					
CLO1	05	----	10	20	_____		_____	_____	C1	1	35
CLO2	05		10	20					C2	2	35
CLO3		10		20					C3	3	30
CLO4					10		05	10	C3	4	25
CLO5						10	05	10	C4	5	25
										Total	150

Table 3: CLO Assessment Method (Distribution of _____150____ marks)

.

Recommended Books

1. Deitel and Deitel, "Visual C# : How to Program", 6/e Edition, Prentice Hall / Pearson Education, 2017, ISBN 978-0-13-650154-0.
2. J.C., Bradley and A.C. Millspaugh, “Programming in visual C#”, Latest Edition, McGraw-Hill.