Course: 203: Programming in .NET

Course Code	203		- 0	ımmıng						
Course Title	Programming in .NET									
Credit	4									
Teaching per Week	4 Hrs.									
Minimum weeks per Semester	15 (Including Class work, examination, preparation, holidays etc.)									
Review / Revision	June 2020									
Purpose of Course	This course is an introduction to students to understand fundamentals of .NET									
Turpose or course	technology. The course also gives students an idea about VB.NET Programming.									
	The course also explains the concept of ASP.NET									
Course Objective	1. To make students understand .NET Technology									
Course Objective	2. To make students understand VB.NET Programming									
	3. To make students understand the importance of ASP.NET									
Course Outcome	CO-1 Study .Net Architecture.									
	CO-2- Design and develop console and window based.NET application.									
	CO-3-To learn basic syntax and implement small applications in C# programming language.  CO-4-Create and manipulate GUI components in C#.									
		CO-5-Create applications in C# using Object Oriented Properties.								
	CO-6-Design and implement Database connectivity using ADO.Net. CO-7-Identify and resolver problems in C# applications.									
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Mapping between COs with	1	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8	
PSOs	CO1									
	CO2									
	CO3									
	CO4									
	CO5									
	CO6									
	CO7									
Pre-requisite	Nil									
Course Content	Unit1: (	Overview	of Micro	soft.NET	Platform					
	1.1 Introduction to Building Blocks of .Net Platform									
	1.2 Ove	rview of .	Net Asse	mblies						
	1.3 Com	ımon Typ	e System							
			guage Sp		n					
		1.5 Common Language Runtime 1.6 Exploring an Assembly (ildasm) 1.7 Platform Independent Nature of .Net								
	1.8 Base Class Libraries									
	Unit2: Overview of C#  2.1 Literals, Variables, Data Types  2.2 Operators  2.3 Expressions and Looping									
	2.4 Constants, Arrays, Array Class, List									
	2.5 String, String Builder									
	2.6 Boxing and UnBoxing									
	2.7 Ever	2.7 Events, Errors and Exceptions								
		Unit3: Object Oriented Aspects of C#								
	<ul> <li>3.1 Creating Classes, Encapsulation, Object Construction &amp; Destruction</li> <li>3.2 Inheritance</li> <li>3.3 Polymorphism</li> <li>3.4 Abstraction</li> <li>3.4 Interfaces and Abstract Classes</li> </ul>									
	3.5 Dele	3.5 Delegates								

	Unit4: Application Development				
	4.1 Creating Windows Forms with Events and Controls				
	4.2 Menu Creation				
	4.3 Inheriting Windows Forms				
	4.4 SDI and MDI Application				
	4.5 Dialog Boxes (Modal and Modeless)				
	4.6 Validating Controls				
	Unit5: Accessing Data				
	5.1 ADO.Net				
	5.1.1 Data Adapter				
	5.1.2 Data Set				
	5.1.3 Typed Data Set				
	5.2 Using Stored Procedures				
	5.3 Handling Exceptions				
	5.4 LINQ				
	[Self Study]				
	Report Generation, Deployment				
Reference Books	1NET Framework Essentials, Hoand Lam, Thuan L. Thai, O'REILLY				
	2. Microsoft .NET Framework 4.5 Quickstart Cookbook, Jose Luis Latorre Millas,				
	PACKT Publishing PACKT Publishing				
	3. Pro C# 5.0 and the .NET 4.5 Framework, Andrew Troelsen, Apress				
	4. C# IN DEPTH, Jon Skeet, Manning Publications				
	5. Beginning C# 7 Programming with Visual Studio 2017, Benjamin Perkins, wrox				
	6. Illustrated C#, Daniel Solis, Cal Schrotenboer, Apress				
	7. The C# Programmer's Study Guide, Ali Asad, Hamza Ali, Apress				
Teaching Methodology	Class work, Discussion, Self-Study, Seminars and/or Assignment				
Evaluation Method	30 % internal assessment and 70% external assessment				