DOT NET FRAMEWOR [As per Choice Ba		CATION DEVELOPME em (CBCS) scheme]	NT	
	m the academic y	year 2016 -2017)		
Subject Code	SEMESTER - 1 15CS564		20	
Number of Lecture Hours/Week Total Number of Lecture Hours	3		30	
Total Number of Lecture Hours	40 CREDITS – 03	The state of the s)3	
Course objectives: This course will e				
 Inspect Visual Studio prograpplications for Microsoft Win Understand Object Oriented P Interpret Interfaces and define Build custom collections and g 	ramming environ ndows Programming conc custom interface	ment and toolset design		
 Construct events and query da Module – 1 			Teaching Hours	
Introducing Microsoft Visual Car Welcome to C#, Working with vari methods and applying scope, Usin assignment and iteration statements, N T1: Chapter 1 – Chapter 6 Module – 2	iables, operators ng decision state	and expressions, Writing	7	
Understanding the C# object moobjects, Understanding values and enumerations and structures, Using art Textbook 1: Ch 7 to 10 Module – 3	references, Cre	nd Managing classes and eating value types with	8 Hours	
	rking with inhari	tongo Creating in S	0.77	
and defining abstract classes, Using garbage collection and resource management Textbook 1: Ch 11 to 14			8 Hours	
Module – 4				
Defining Extensible Types with C#: Using indexers, Introducing generics, I Textbook 1: Ch 15 to 18	: Implementing p Using collections	roperties to access fields,	8 Hours	
Module – 5				
Enumerating Collections, Decoupling application logic and handling events, Querying in-memory data by using query expressions, Operator overloading Textbook 1: Ch 19 to 22			8 Hours	
Course outcomes: The students should			-	
 Build applications on Visual S semantics of C# Demonstrate Object Oriented P. Design custom interfaces for ap in building complex application Illustrate the use of generics and 	rogramming conc plications and leves.	cepts in C# programming lyerage the available built-		
Compose queries to query in-me	- concenons in C	T		

Compose queries to query in-memory data and define own operator behaviour

Question paper pattern:

The question paper will have TEN questions.

There will be TWO questions from each module.

Each question will have questions covering all the topics under a module.

The students will have to answer FIVE full questions, selecting ONE full question from each module.

Text Books:

1. John Sharp, Microsoft Visual C# Step by Step, 8th Edition, PHI Learning Pvt. Ltd. 2016

Reference Books:

- 1. Christian Nagel, "C# 6 and .NET Core 1.0", 1st Edition, Wiley India Pvt Ltd, 2016. Andrew Stellman and Jennifer Greene, "Head First C#", 3rd Edition, O'Reilly Publications, 2013.
- 2. Mark Michaelis, "Essential C# 6.0", 5th Edition, Pearson Education India, 2016.
- 3. Andrew Troelsen, "Prof C# 5.0 and the .NET 4.5 Framework", 6th Edition, Apress and Dreamtech Press, 2012.

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