DOT NET FRAMEWOR	K FOR APPLICA	TION DEVEL ON	
DOT NET FRAMEWORK FOR APPLICATION DEVELOPMENT [As per Choice Based Credit System (CBCS) scheme]			
(Effective from the academic year 2017 -2018)			
SEMESTER – V			
Subject Code	17CS564	IA Marks	40
Number of Lecture Hours/Week	3	Exam Marks	
Total Number of Lecture Hours	40	Exam Hours	60
CREDITS – 03			03
Module – 1			
			Teaching
Introducing Microsoft Visual C# and Microsoft Visual Studio 2015:			Hours
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11. Chapter 1 - Chapter 6			
Module – 2			
Understanding the C# object model: Creating and Managing classes and 8 Hours			
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Textbook 1: Ch 7 to 10			
Module – 3 Understanding and the second of			
Understanding parameter arrays, Working with inheritance, Creating interfaces 8 Hours			
and defining abstract classes, Using garbage collection and resource management Textbook 1: Ch 11 to 14			
Module – 4			
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Defining Extensible Types with C#: Implementing properties to access fields, 8 Hours			
Using indexers, Introducing generics, Using collections Textbook 1: Ch 15 to 18			
Mcdule - 5			
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Enumerating Collections, Decoupling application logic and handling events, 8 Hours			
Querying in-memory data by using query expressions, Operator overloading Textbook 1: Ch 19 to 22			
Course outcomes: The students should	he able to:		
Build applications on Visual Studio .NET platform by understanding the syntax and			
semantics of C#			
Demonstrate Object Oriented Programming concepts in C# programming language			
• Design custom interfaces for applications and leverage the available built-in interfaces			
in building complex applications.			
Illustrate the use of generics and collections in C#			
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:

- 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.

H. O. D.

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