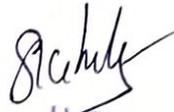


DOT NET FRAMEWORK FOR APPLICATION DEVELOPMENT [As per Choice Based Credit System (CBCS) scheme] (Effective from the academic year 2017 -2018) SEMESTER – V			
Subject Code	17CS564	IA Marks	40
Number of Lecture Hours/Week	3	Exam Marks	60
Total Number of Lecture Hours	40	Exam Hours	03
CREDITS – 03			
Module – 1			Teaching Hours
Introducing Microsoft Visual C# and Microsoft Visual Studio 2015: Welcome to C#, Working with variables, operators and expressions, Writing methods and applying scope, Using decision statements, Using compound assignment and iteration statements, Managing errors and exceptions T1: Chapter 1 – Chapter 6			8 Hours
Module – 2			
Understanding the C# object model: Creating and Managing classes and objects, Understanding values and references, Creating value types with enumerations and structures, Using arrays Textbook 1: Ch 7 to 10			8 Hours
Module – 3			
Understanding parameter arrays, Working with inheritance, Creating interfaces 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#: Implementing properties to access fields, Using indexers, Introducing generics, Using collections Textbook 1: Ch 15 to 18			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 be able to:			
<ul style="list-style-type: none"> • 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, 8 th 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.


H.O.D.

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