COURSE CODE	COURSE TITLE	L	T	P	C
1152CS201	DEVELOPING WEB APPLICATIONS IN .NET	2	0	2	3

Course Category: Program Elective

A. Preamble:

The overall aim of this subject is to introduce you to basic concepts of OOPS concept using C# and data access programming and in order to enable you create C# projects.

B. Prerequisite Courses:

Sl No	Course Code	Course Name
1	1151CS202	Internet Programming

C. Related Courses:

Sl No	Course Code	Course Name
1	1156CS601	Minor Project
2	1156CS701	Major Project

D. Course Educational Objectives:

Learners are exposed to

- Understand the complexity of the real-world objects
- Learn the best practices for designing Web applications and Usability Reviews
- Understand the Principles behind the design and construction of Web applications.
- The objective is to expose students to project development best practices and apply the concepts assimilated during the classroom session

E. Course Outcomes:

Upon the successful completion of the course, learners will be able to

CO Nos.	Course Outcomes	Level of learning domain (Based on revised Bloom's taxonomy)
C01	Classify the .Net framework with its development platform.	K2
C02	Outline the advanced concepts in object oriented programming.	K2
C03	Design the databases using structure query language server.	K3
CO4	Explain the data accessing using ADO.NET for application development	K2
CO5	Understand the scripting languages for Web application Development.	K2

F. Correlation of COs with Pos

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2	PSO 3
CO1	M		L		L									L	
CO2	M		L		M									M	L
CO3	M		M	L	M		L					L		M	L
CO4	M		M	L	M									M	M
CO5	M		H		H		L	M				L		H	M

H- High; M-Medium; L-Low

G.Course Content:

UNIT I INTRODUCTION TO .NET FRAMEWORK 9

Knowledge of .NET framework, .NET features and .NET development platform. Understanding advantages of .NET framework

UNIT II OBJECTED ORIENTED CONCEPTS USING CSHARP LANGUAGE 9

object oriented programming (review only) — advanced concept in OOP – relationship – inheritance – abstract classes – polymorphism – Object Oriented design methodology – approach – best practices. UML class diagrams – interface – common base class

UNIT III DESIGN AND DEVELOP DATABASE USING SQL SERVER 2008 9

To introduce features and architecture of MS – SQL Server 2008, Introduction to Database Engine and storage Engine, to enable students to create Tables, temporary tables, and Integrity rules. Ability to code in Batches, Write Stored Procedures/Functions. Ability to handle errors, Transaction in SQL server

UNIT IV DATA ACCESS PROGRAMMING USING ADO.NET 9

Understanding of challenges, with respect to data access, associated in building internet applications and concept of common data access programming model, Ability to use ADO.NET components for application development, configuring and executing various objects. Understanding connected and disconnected models for data access.

UNIT V WEB APPLICATION DEVELOPMENT USING ASP.NET 9

HTML, JavaScript, CSS, Basics of ASP.NET, Page Object and Dynamic Compilation Model, ASP.NET controls, Understand Data Binding and various Data Sources in ASP.NET. Understand the creation of Master Pages and themes. To understand configuration of web applications, IIS configurations, State management in ASP.NET.

Total: 45 Hours

h. Learning Resources:

i. Text Books:

1. C# and the .Net Platform byTroelsen, Andrew, Apress
2. Rebecca M. Riordan, Microsoft® ADO.NET 2.0 Step by Step, Microsoft Press, 2005
3. Beginning ASP.NET 3.5, Ullman, Sussman,Kauffman,Hart, Meharry(Wrox Publications)

ii. References:

1. Inside C#, by Archer, Tom, Wrox Publication
2. Microsoft Visual C# 2005 Step by Step by Sharp, John, Microsoft, 2005
3. Murach's SQLSERVER 2008 for developers by bryanSyverson
4. Mastering Microsoft SQL SERVER 2008 by Michael Lee, Gentry Bieker
5. David Sceppa, Programming Microsoft® ADO.NET 2.0 Core Reference, Microsoft Press, 06
6. Professional ASP.NET 3.5, Anderson, Francis, Howard, Sussman, Watson (Wrox Publications)

iii. Online Resources:

http://utdalls.edu
http://guzdial.edu