SRM UNIVERSITY
FACULTY OF ENGINEERING AND TECHNOLOGY

SCHOOL OF COMPUTING
DEPARTMENT OF COMPUTER APPLICATIONS
COURSE PLAN

Course Code : MC0613
Course Title : Programming in C#
Semester : III
Course Time : July – Nov. 2012

Day	A, B, C, D	
	Hour	Timing
Day 1	-	-
Day 2	3 & 6	10.35-11.25 & 2.10 – 3.10
Day 3	-	-
Day 4	2	09.35-10.25
Day 5	5	1.30 – 2.20

Location : SRM University – Tech Park

Faculty Details

Sec.	Name	Office	Office hour	Mail id
A ,B,C & D	Mrs. S.Anjugam	Tech Park, II Floor	08.45 am – 04.00 pm	anjugam.s@ktr.srmuniv.ac.in

Required Text Books:
1. E. Balagurusamy – Programming in C# - Tata McGraw Hill – 2004.
2. J. Liberty – Programming C# - Second Edition - O'Reilly – 2002.

Reference Books:
1. Herbert Schildt – The Complete Reference: C# - Tata McGraw Hill – 2004.
2. Andrew Troelsen – C# and the .NET Platform – A! Press – 2003.

Web resources

www.w3schools.com
www.csharp.net-informations.com

Objectives

1. To understand the basic and advanced concepts in C#
2. To gain knowledge in the concepts of .NET framework
3. To build a sample applications using .NET technologies

Assessment Details

Cycle Test – I	:	10 Marks
Announced Quiz	:	5 Marks
Unannounced Quiz	:	5 Marks
Observation	:	5 Marks
Model Practical	:	5 Marks
Model Exam	:	10 Marks
Total	**:**	**40 Marks**

Test Schedule

S.No.	DATE (Tentative)	TEST	TOPICS	DURATION
1	July end week	Announced Quiz	Unit I	1 Period
2	14.08.2012	Cycle Test – I	Unit I & II	2 Periods

3	September 2nd Week	Unannounced Quiz	Unit III	1 Period
4	10.10.2011	Model Exam	All 5 units	3 Hrs

Outcomes

Students who have successfully completed this course will have full understanding of the following concepts

Course outcome	Program outcome
To learn The Basics of C# The Object-oriented concepts, Delegates, Events and Exceptions To understand .NET framework, Windows and Web applications Developing sample web applications	An ability to implement the various object-oriented features To implement various C# concepts To create classes and Interfaces An ability to write programs using Windows applications An ability to develop Web applications

Detailed Session Plan

OVERVIEW OF C# - LITERALS – VARIABLES – DATA TYPES – OPERATORS – EXPRESSIONS – BRANCHING – LOOPING – METHODS – ARRAYS – STRINGS – STRUCTURES - ENUMERATIONS					
Session No.	**Topics to be covered**	**Time (min)**	**Ref**	**Teaching Method**	**Testing Method**
1	Overview of C#	50	1	BB	Group discussion
2	Literals, Variables	50	1	BB	Objective type test Quiz
3	Data Types, Operators, Expressions	50	1	BB	Quiz
4	Branching, Looping	50	1	BB	Quiz
5	Methods	50	1	BB	Brain storming
6	Arrays	50	1	BB	Quiz Objective type test
7	Strings	50	1	BB	Quiz, Assignment
8	Structures	50	1	BB	Group discussion Comparative study
9	Enumeration	50	1	BB	Quiz, Brain storming
CLASSES – OBJECTS – INHERITANCE – POLYMORPHISM – INTERFACES – OPERATOR OVERLOADING – DELEGATES – EVENTS – ERRORS AND EXCEPTIONS					
10	Classes	50	1	BB	Group discussion Comparative study
11	Objects	50	1	BB	Quiz
12	Inheritance	50	1	BB	Quiz Group discussion
13	Polymorphism	50	1	BB	Quiz Brain storming
14	Interfaces	50	1	BB	Group discussion
15	Operator overloading	50	1	BB	Group discussion, Quiz
16	Delegates	50	1	BB	Group discussion Brain storming
17	Events	50	1	BB	Quiz
18	Errors and Exceptions	50	1	BB	Quiz Group discussion

BUILDING WINDWOS APPLICATIONS – PROGRAMMING WITH WINDOWS FORM CONTROLS – PROGRAMMING WEB APPLICATIONS WITH WEB FORMS					
19	Building windows applications	50	2	BB	Group discussion
20	Creating a simple Windows Form	50	2	BB	Group discussion
21	Creating a Windows Forms Application	50	2	BB	Group discussion
22	Windows Form Controls	50	2	BB	Quiz
23	Validation Controls	50	2	BB	Quiz
24	Understanding Web Forms	50	2	BB	Group discussion
25	Creating a Web Form	50	2	BB	Group discussion
26	Adding Web Form Controls	50	2	BB	Group discussion
27	Data Binding	50	2	BB	Group discussion
INPUT AND OUTPUT – INTRODUCTION TO ADO.NET – DATA RELATION – ADO.NET MANAGED CODE PROVIDER					
28	Introduction to ADO.NET	50	2	BB	Group discussion
29	Input and Output	50	2	BB	Quiz
30	Accessing Data with ADO.NET	50	2	BB	Group discussion
31	Relational Databases and SQL	50	2	BB	Group discussion
32	The ADO.NET Object Model	50	2	BB	Group discussion
33	Data Adapter, Data Reader	50	2	BB	Quiz
34	Getting Started with ADO.NET	50	2	BB	Quiz
35	Using OLE DB Managed Providers	50	2	BB	Group discussion
36	Working with Data-Bound Controls	50	2	BB	Group discussion
CREATING SAMPLE C# WEB APPLICATIONS					
37	Creating Scientific Calculator	50	1,2	BB	Case Study
38	**Developing a simple web applications :** Employee	100	1,2	BB	Case Study
39	Student using ADO.NET	100	1,2	BB	Case Study
40	Banking using ADO.NET	100	1,2	BB	Case Study
41	Library using ADO.NET	100	1,2	BB	Case Study

Prepared by

Mrs. S. Anjugam
Assistant Professor (Senior Grade) / Computer Applications