

**SRM UNIVERSITY**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**SCHOOL OF COMPUTING**  
**DEPARTMENT OF CSE**  
**COURSE PLAN**

**Course Code : CS1116**  
**Course Title : VISUAL PROGRAMMING**  
**Semester : VI**  
**Course Time : JAN 17-APR 17**

DAY	Ms.J.PRATHIPA		Dr.S.THENMALAR	
	Hour	Timing	Hour	Timing
1	-	-	5	11.35-12.25
2	-	-	9	3.15-4.05
3	6	12.30-1.25	-	-
4	2	8.50-9.40	9,10	3.15-4.55
5	6,7	12.30-2.15	-	-

**Location : S.R.M.E.C–Tech Park**

**FacultyDetails**

SLOT & BATCH	NAME	OFFICE	OFFICE HOUR	MAIL ID
X, 1	Mrs.J.Prathipa	TP608	Monday-saturday	Prathipa.j@ktr.srmuniv.ac.in
X, 2	Mrs.Thenmozhi	TP603A	Monday-saturday	Themalar.s@ktr.srmuniv.ac.in

**TEXT BOOK**

1. Charles Petzold, “Windows Programming”, Microsoft Press, 1998. (Unit – I) (Chapters 1- 5, 7, 9, 10)
2. Michael Halvorson, “Microsoft Visual Basic 2010 Step by Step”, Microsoft Press, 2010. (Unit – II) (Chapters 1- 10, 13,15 – 19)
3. David J.Kruglinski, George Shepherd, Scot Wingo, “Programming Microsoft Visual C++”, Microsoft Press ,2006(Unit – III) (Chapters 1-7, 12 -13,17- 18)
4. Deitel H.M.and Deitel P.J., “Java how to program”, Prentice Hall, Eighth Edition (Unit – IV) (Chapters 2-3, 8- 9,11)

5. Jamie Jaworski, “Java Unleashed”, SAMS Techmedia Publication, 1999. (Unit – IV) (Chapter 22) 6. Karli Watson, Christian Nagel, Jacob Hammer Pedersen, Jon Reid, Morgan Skinner, “Beginning Visual C# 2010”, Wiley India Pvt.Ltd., 2010. (Unit-V) (Chapters 1-7, 9-13).

## REFERENCES

1. Evangelous Petroustos, “Mastering Microsoft Visual Basic 2010”, Wiley India Pvt.Ltd., 2010.
2. Ivor Horton, “Beginning Visual C++ 2010”, Wiley India Pvt.Ltd., 2010.
3. Kate Gregory ‘Using Visual C++’, Prentice Hall of India Pvt., Ltd., 1999.
4. Gary Cornell, “Visual Basic 6 from the Ground Up”, Tata McGraw Hill, 2005.
5. Deitel H.M.and Deitel P.J., “Java how to program with an Introduction to Visual. J++”, Prentice Hall, 1998.

**Prerequisite** : NIL

## Objectives

1. To Understand the Basics of Windows Programming
2. To develop applications using Visual Basic, Visual C++ and Visual JAVA Programming
3. To develop applications using Visual C# Programming

## AssessmentDetails

Cycle Test–I	:	15 Marks
Surprise Test–I	:	5 Marks
Cycle Test–II	:	25 Marks
Attendance	:	5 Marks

## Test Schedule

S.No	DATE	TEST	TOPICS	DURATION
1	1.3.2017	Cycle Test-I	Unit I & II	2Hours
2	24.4.2017	Cycle Test-II	Unit III, IV,V	3Hours

## Outcomes

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

## Detailed Session Plan

Sessi on No.	Topics to be covered	Time (min)	REF	Teaching Method	Testing Method
1	Introduction to Windows environment – A simple windows program	50	1	BB	Group discussion Quiz
2	Windows and Messages –The Window procedure	50	1	BB	Objectivetypest Quiz
3	Message processing	50	1	BB	Quiz
4	Text output	50	1	PPT	Quiz
5	Painting and repainting	50	1	BB	Quiz

6	Introduction to GDI and Device context	50	1	BB	Quiz Objectivetest
7	Basic drawing – Working with Menus and	50	1	PPT	Quiz,Assignment
8	Child Window controls	50	1	BB	Groupdiscussion Comparativestudy

UNIT II - VISUAL BASIC PROGRAMMING (10 hours) Visual Basic Applications – Creating and using Controls – Menus and Dialogs– Programming fundamentals – Objects and instances – Debugging – Responding to mouse events– Creating graphics for application – Displaying and printing information– File system controls - Processing files – Accessing databases with the data controls and grid control. 174 CS-Engg&Tech-SRM-2013

9	Visual Basic Applications	50	1	BB	Quiz
10	Creating and using Controls	50	1	BB	Quiz Brainstorming
11	Menus and Dialogs– Programming fundamentals	50	1	BB	Quiz Surprise Test
12	Objects and instances	50	1	BB	Group discussion Quiz
13	Debugging – Responding to mouse events	50	1	BB	Group discussion, Quiz
14	Creating graphics for application	50	1	BB	Quiz, Assignment
15	Displaying and printing information	50	1	BB	Quiz, Assignment
16	File system controls	50	1	BB	Quiz, Assignment
17	Processing files	50	1	BB	Quiz, Assignment
18	Accessing databases with the data controls and	50	1	BB	Quiz, Assignment

UNIT III - VISUAL C++ PROGRAMMING (9 hours) Visual C++ components – Developing simple applications – Microsoft Foundation classes – Controls – Message Handling - Document-view architecture – Dialog based applications – Mouse and keyboard events.

19	Visual C++ components	50	1	PPT	Quiz Groupdiscussion
20	Developing simple applications	50	1	PPT	Quiz,Comparative study
21	Microsoft Foundation classes	50	1	PPT	Quiz SurpriseTest
22	Controls – Message Handling	50	1	PPT	Quiz Groupdiscussion
23	Document-view architecture	50	2	PPT	Quiz Comparativestudy
24	Dialog based applications	50	1	PPT	Quiz Groupdiscussion
25	Mouse and keyboard events.	50	2	PPT	Quiz

UNIT IV - VISUAL JAVA PROGRAMMING (9 hours) Java basics – Java classes – Object references – Inheritance – Exception handling - File I/O – Applets and HTML – Animation techniques – Animating images.

26	Java basics, Java classes	50	1	BB	Group discussion Assignment
27	Object references	50	1	BB	Group discussion Quiz
28	Inheritance	50	1	BB	Group discussion Assignment
29	Exception handling	50	1	PPT	Group discussion Assignment
30	File I/O	50	1	PPT	Objective type test Quiz
31	Applets and HTML	50	1	PPT	Quiz Group discussion Comparative study
32	Animation techniques	50	1	PPT	Objective type test
33	Animating images.	50	1	PPT	Objective type test
<b>UNIT V - VISUAL C# PROGRAMMING (9 hours)</b> Introduction to .NET Framework - Overview of C# - Programming fundamentals – Defining Classes – Defining Class Members – Collections, Comparisons and Conversions – Generics – Delegates and events					
34	Introduction to .NET Framework	50	1	PPT	Group discussion
35	Overview of C#	50	1	PPT	Group discussion Comparative study
36	Programming fundamentals	50	1	PPT	Objective type test Comparative study
37	Defining Classes	50	1	PPT	Brain storming
38	Defining Class Members	50	1	PPT	Brain storming
39	Collections, Comparisons and Conversions	50	1	PPT	Surprise test Quiz Group discussion
40	Generics	50	1	PPT	Comparative study Assignment
41	Delegates and events	50	1	PPT	Comparative study Assignment

**BB-Black board**

**PPT-Power Point**

PREPARED BY

**J.PRATHIPA**

APPROVED BY

**HOD / CSE**