



SANATAN DHARMA COLLEGE, AMBALA CANTT

College with Potential for Excellence, UGC, New Delhi
NAAC Accredited Grade "A+" with CGPA 3.51 in 3rd cycle
ISO 9001:2015 & ISO 14001:2015 Certified



Department of Computer Science Lesson Plan (Session 2022-2023)

Class: BVOC (SD) Sem: IV Course Code: BVSD-44 Nomenclature: Visual Programming
Duration: 13 Weeks Dates: 1st Feb- 30th April 2023

SYLLABUS

BVSD -44 Visual Programming

Maximum Marks: 100

External: 80

Minimum Pass Marks: 40

Internal: 20

Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. Student will be required to attempt FIVE questions in all. Question Number 1 will be compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each Unit.

UNIT-I

The VB Integrated Development Environment and its Element: Menu bar, Tool bars, Project Explorer, Toolbox, Properties Window, Form Designer, Form Layout, etc.

Unit II

The VB Language and its Elements: Variables, Constants, Arrays, Collections, Subroutine, Functions, Arguments, and Control Structure.

Unit III

Design a VB Application: Working with VB Forms, Form Properties, Adding, Deleting, and Managing Forms at Run Time, Coding Event Procedures, Implementation of Drag Drop Operations, Menu Designing, Adding Menu interface to Forms, Attaching Code to Events, Dynamic Menu Appearance.

Unit IV

Coding a VB Application: Implementing User Interface Controls, Common Control and their Properties, Dynamic Control, Custom Control, Control Array, Using Variables, Subroutine, Functions and Control Structures, Accessing Data through Code and Data Controls, Using DLLs in VB Applications, Building Active X Client, Active X Servers, Active X Controls, Active X Documents and Web-enabled Applications. Database Programming and Object Oriented Programming with VB.

TEXT BOOKS:

- Howard Hawhee, Visual Basic 6, PHI
- Warner Scott L., Teach Yourself Visual Basic 6, TMH, 1998

REFERENCE BOOKS:

- Bradley Julia Case, Millspaugh Anita, Programming in VB-6, TMH, 2008
- Jerke Noel, VB-6 The Complete Reference, TMH, 2008
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Course Outcomes

After the completion of this course, prospective Computer professionals will have the ability to

Course Title	Visual Programming
CO No.	Course Outcomes
CO-1	Demonstrate knowledge of programming terminology and how applied using Visual Basic (e.g., variables, selection statements, repetition statements, etc.)
CO-2	Develop a Graphical User Interface (GUI) based on problem description
CO-3	Develop an Event Planning Chart based on problem description so as to define the processing that is to occur based on specific events
CO-4	Develop an Algorithm to verify processing is accurate
CO-5	Develop and debug applications using Visual Basic 2006 (or version required for the course) that runs under Windows operating system
CO-6	Develop programs that retrieve input from a file as opposed to input only provided by user

S.No	Instructional Technique	Assessment Methods (AM)
1	Chalk & Talk	Assignments
2	ICT tools	Quiz
3	Group discussions	Group Discussions
4	Industrial visit	Oral Tests
5	Case studies	Sessional
6	Small Projects	Presentations
7	Workshop	Seminar
8	Spoken Tutorials	University Exams
9	Flipped Class	
10.	E-Resources	

Detailed Lesson Plan

Week	Date	Topic to be Covered	Instructional Technique	Assessment Method
1	01.02.2023	Introduction of VB & its features	1-(PPT/Projector)	1
2	06.02.2023	VB as an Event Driven Programming Language	2-(PPT/Projector)	1,2,4
	07.02.2023	The VB Integrated Development Environment. and its Element: Menu bar, Tool bars	2-(PPT/Projector)	1,2,4
	08.02.2023	Project Explorer, Properties Window, Form Designer, Form Layout etc	2-(PPT/Projector)	1,2,3
3	13.02.2023	Tool-box	2-(PPT/Projector)	1,2,3
	14.02.2023	Tool Box: Data base Connectivity Control	2-(PPT/Projector)	1,2,4
	15.02.2023	Variables & Constants in VB	1-(PPT/Projector)	1,2,3
4	20.02.2023	Control Statements in VB:if Else , If else if statement	2-(PPT/Projector)	1,2,3
	21.02.2023	Loop : For loop, While..wend Loop, Do while.. Loop,do Until loop	2-(PPT/Projector)	1,2,3
	22.02.2023	For..each loop	2-(PPT/Projector)	1,2,4
5	27.02.2023	SELECT CASE statement	2-(PPT/Projector)	1,2,3
	28.02.2023	Arrays in VB, Control Array	2-(PPT/Projector)	1,2,3,4
	01.03.2023	Collection is VB, How to add and remove elements in Collections	2-(PPT/Projector)	1,2,3,4
6	06.03.2023	Holi Holiday	-----	-----
	07.03.2023			
	08.03.2023			
7	13.03.2023	Assignment1	6	1,2,3
	14.03.2023	Functions in VB, Diff between function and procedure	2,8,10	1,2,3,4
	15.03.2023	Working with VB Forms	1,2-(PPT/Projector)	1,2,3,4
8	20.03.2023	Working with VB Forms , How to add and delete forms, How to manage forms at runtime	1, 2-(PPT/Projector)	1,2,3,4
	21.03.2023	Subroutines in VB	2-(PPT/Projector)	1,2,3,4
	22.03.2023	Coding Event Procedure	2-(PPT/Projector)	1,2,3,4
9	27.03.2023	Drag & Drop operations	2-(PPT/Projector)	1,2,3,4
	28.03.2023	Problem solving session	2-(PPT/Projector)	
	29.03.2023	Sessional	-----	5

Week	Date	Topic to be Covered	Instructional Technique	Assessment Method
10	03.04.2023	Menu Designing, Adding menu interface to form	2-(PPT/Projector)	1,2,3,4
	04.04.2023	Mahavir Jayanti	-----	-----
	05.04.2023	Dynamic menu , Implementing user Interface controls	2-(PPT/Projector)	1,2,3,4
11	10.04.2023	Assignment 2	6	5
	11.04.2023	Common Controls and their properties	2-(PPT/Projector)	1,2,3,4
	12.04.2023	Dynamic Controls	2-(PPT/Projector)	1,2,3,4
12	17.04.2023	Custom Controls	2-(PPT/Projector)	1,2,3,4
	18.04.2023	Accessing data through controls	2-(PPT/Projector)	1,2,3,4
	19.04.2023	Accessing data through code	2-(PPT/Projector)	1,2,3,4
13	24.04.2023	Accessing data through code (ADD, Select, Search, Delete)	2-(PPT/Projector)	1,2,3,4
	25.04.2023	How to add module, Using DLL in VB Applications	2-(PPT/Projector)	1,2,3,4
	26.04.2023	Database Programming Web enabled Applications	2-(PPT/Projector)	1,2,3,4

	Teacher Incharge	Head of the Department
Name	Dr. Poonam Rani	Dr. Girdhar Gopal
Sign with Date		