

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: BCA

Sem: VI

Course Code: BCA- 365

Nomenclature: Advanced Programming with Visual Basic

Duration: 13 Weeks Dates: (01.02.2023- 30.04.2023)

Sem : Even Semester

Syllabus

BCA-365: Advanced Programming with Visual Basic

Maximum Marks: 100

External: 80

Minimum Pass Marks: 35

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. All questions will carry equal marks.

UNIT – I

Collections: Adding, Removing, Counting, Returning Items in a Collection, Processing a Collection;
Working with Forms: Form Properties, Creating, Adding, Removing Forms in Project, Adding Multiple Forms, Managing Forms at Run Time, Hiding & Showing Forms, Load & Unload Statements, Drag and Drop Operation, Activate & Deactivate events, Form-load event, Example using Forms, Programs in VB using Forms

UNIT – II

Working with Menu: Menu Designing in VB, Adding a Menu to a Form, Modifying and Deleting Menu Items, Adding Access Characters, Adding Shortcut Keys, Manipulating Menus using Common Dialog Box, Attaching Code to Events, Creating Submenus, Dynamic Menu Appearance

Advanced Controls in VB: Scroll Bar, Slider Control, Tree View, List View, Rich Text Box Control, Toolbar, Status Bar, Progress Bar, Cool bar, Image List

Program Development in VB using Menus and Advance Controls

UNIT – III

File Handling & File Controls: Sequential & Random files, Opening and Closing Data Files, Viewing the Data in a File, Performing Operations on a File, Creating a Sequential Data File, Writing Data to a Sequential File, Reading the Data in a Sequential File, Finding the End of a Data File, Locating a File, Reading and Writing a Random File (get, put, LOF, seek).

Working with Graphics: Using Paint, Line, Circle, Manipulating Graphics

Program Development in VB using Files and Graphics

UNIT – IV

Accessing Databases: Data Controls, Data-Bound Controls, DAO, RDO, ADO, Creating the Database, Setting Properties, Applying Operations on Database, Viewing the Database, Updating the Database (adding, deleting records)

Program Development in VB using Database and Advance Controls

TEXT BOOKS:

1. Steven Holzner, "Visual Basic 6 Programming: Black Book", Dreamtech Press.
2. Evangelos Petroutsos. "Mastering Visual Basic 6", BPB Publications.
3. Julia Case Bradley & Anita C. Millsbaugh, "Programming in Visual Basic 6.0", Tata McGraw-Hill Edition

REFERENCE BOOKS:

1. Michael Halvorson, "Step by Step Microsoft Visual Basic 6.0 Professional", PHI
2. "Visual basic 6 Complete", BPB Publications.
3. Scott Warner, "Teach Yourself Visual basic 6", Tata McGraw-Hill Edition
4. Brian Siler and Jeff Spotts, "Using Visual Basic 6", Special Edition, PHI

Course Outcomes

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

Semester-VI Course- BCA-365: Advanced Programming with Visual Basic At the end of course student should be able to:	
CO-1	To develop an understanding of Visual Basic
CO-2	To develop the skills necessary to create software solutions using Visual Basic
CO-3	To learn how to analyze certain types of problems with a software solution in mind
CO-4	To learn how to design software solutions to some types of problems
CO-5	To learn how to implement, test, and debug Visual Basic applications
CO-6	Working with Menus, Advanced Controls
CO-7	Explain File Handling & File Controls
CO-8	Working with Accessing Databases (Data Controls, Data-Bound Controls, DAO, RDO, ADO)

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	02.02.2023	Introduction to Collections	2- (PPT/Projector)	----
	03.02.2023	Collections: Adding, Removing, Counting, Returning Items in a Collection, Processing a Collection;	2(PPT/Projector)	1
	04.02.2023	Revision of Collections	----	----
2	09.02.2023	Working with Forms	1	1,2,3,4
	10.02.2023	Form Properties, Creating, Adding, Removing Forms in Project, Adding Multiple Forms	2- (PPT/Projector)	1,2,3,4
	11.02.2023	Managing Forms at Run Time, Hiding & Showing Forms	2- (PPT/Projector)	1,2,3,4
3	16.02.2023	Revision	----	----
	17.02.2023	Managing Forms at Run Time, Hiding & Showing Forms	1	1,2,3,4
	18.02.2023	Load & Unload Statements	9	1,2,3,4
4	23.02.2023	Drag and Drop Operation, Activate & Deactivate events	9	1,2,3,4
	24.02.2023	Form-load event	2- (PPT/Projector)	1,2,3,4
	25.02.2023	Example using Forms, Programs in VB using Forms	2- (PPT/Projector)	1,2,3,4
5	02.03.2023	Working with Menu: Menu Designing in VB, Adding a Menu to a Form, Modifying and Deleting Menu Items, Adding Access Characters, Adding Shortcut Keys	9	1,2,3,4
	03.03.2023	Manipulating Menus using Common Dialog Box, Attaching Code to Events, Creating Submenus, Dynamic Menu Appearance	2- (PPT/Projector)	1,2,3,4
	04.03.2023	Revision with examples	----	----
6	06.03.2023	Holi Vacations		
	07.03.2023			
	08.03.2023			
	09.03.2023			
	10.03.2023			
	11.03.2023			

7	16.03.2023	Sessional	----	----
	17.03.2023	Working with Graphics: Using Paint, Line	8,10,2	1,2,3,4,
	18.03.2023	Revision	----	----
8	23.03.2023	HOLIDAY	----	----
	24.03.2023	Working with Graphics: Using Paint, Line, Circle, Manipulating	9	1,2,3,4,6
	25.03.2023	File Handling & File Controls: Sequential & Random files	8,10,2	1,2,3,4,
9	30.03.2023	HOLIDAY	----	----
	31.03.2023	Opening and Closing Data Files, Viewing the Data in a File, Performing Operations on a File	6	1,2,3,4
	01.04.2023	Creating a Sequential Data File, Writing Data to a Sequential File, Reading the Data in a Sequential File	6	1,2,3,4
10	06.04.2023	Finding the End of a Data File, Locating a File, Reading and Writing a Random File (get, put, LOF, seek).	2- (PPT/Projector)	1,2,3,4
	07.04.2023	Revision	----	----
	08.04.2023	Accessing Databases: Data Controls, Data-Bound Controls, DAO, RDO, ADO, Creating the Database,	6	1,2,3,4
11	13.04.2023	Setting Properties, Applying Operations on Database, Viewing the Database,	6	1,2,3,4
	14.04.2023	HOLIDAY	----	----
	15.04.2023	Updating the Database (adding, deleting records) Program Development in VB using Database and Advance Controls	6	1,2,3,4
12	20.04.2023	Advanced Controls in VB: Scroll Bar, Slider Control	6	1,2,3,4
	21.04.2023	Advanced Controls in VB: Tree View, List View	6	1,2,3,4
	22.04.2023	HOLIDAY	----	----
13	27.04.2023	Advanced Controls in VB: Rich Text Box Control, Toolbar, Status Bar, Progress Bar	2- (PPT/Projector)	1,2,3,4
	28.04.2023	Revision	2- (PPT/Projector)	1,2,3,4
	29.04.2023	Advanced Controls in VB: Cool bar, Image List	6	1,2,3,4