HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

B.C.A. Semester – IV
BCA-402 : GUI Programming using Visual Basic

Teaching Scheme (Per week)		Teaching Scheme (Per semester)		Examination Scheme					
				INT		EXT		TOTAL	
Th. (hours)	Pr. (hours)	Total Hours	Credit	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)	Th. (marks)	Pr. (marks)
4	--	40	4	30	--	70	--	100	--

Unit - I   **[18 Marks]**

Client Server Basics: Discover Client-Server And Other Computing Architectures, Understand File Server Versus Client-Server Database Deployment, Learn About the Two Tier Versus Three Tire Client-Server Model, **Visual Basic Building Blocks And Default Controls:** Forms, Using Controls, Exploring Properties, Methods And Events, Introduction To Intrinsic Controls, Working With Text, Working With Choices, Special Purpose Controls, VB Advance Controls: Events, Menu bar, Popup Menus, Tool bar, Message Box, Input Box, Built-in Dialog Boxes, Creating MDI, Working with Menus

Unit - II   **[17 Marks]**

VB Programming Fundamentals And Variables: Introduction to Variables, Variable Declaration, Arrays, Introduction to Constants And Option Explicit Statement, Assignment Statements, Working With Math Operations, Strings, Formatting Functions, **Controlling And Managing Program:** All Control Statements, Loops, Error Trapping, Working With Procedures, Functions, Controlling How Your Program Starts, **Common controls and control arrays:** Introduction to common controls- Tree view, list view, tab strip, Creating and working with control arrays.

Unit - III   **[18 Marks]**

Visual Basic and databases: Understanding the Data Controls And Bound Controls, Introduction to Data Form Wizard, Introduce DAO, Working With Record sets, Record Pointer, Filters, Indexes, Sorts And Manipulation of Records. **Remote And ActiveX Data Objects**: Working With ODBC, Remote Data Objects And Remote data Control, Introducing ADO, ADO Data Control, Using Data Grid Control And ActiveX Data Objects. **ActiveX Controls, Extending ActiveX Controls And Classes:** Creating, Testing, Compiling, Enhancing And User Drawn ActiveX Controls, Using ActiveX Control Interface Wizard And Property Pages Wizard, Introducing Ambient, Extender Objects, Creating Property Pages, Building Class Modules, ActiveX DLL.

Unit - IV   **[17 Marks]**

Client-Server Development Tools: COM, Services Models, Development Tools Included with VB 6, Working With SourceSafe Projects. **Reports and Packaging:** Data Reports and Crystal Reports, Packaging A Standard EXE Project

Text Book:

1. **Visual Basic 6 Client/Server How-To**, JARKE (TACHMEDIA)
2. **Using Visual Basic 6,** SILER (TMH)

Question Paper Scheme:

University Examination Duration: 3 Hours.

Q.1 - Unit-I   (18 Marks)
    A. Objective/ Short Questions.
    B. Descriptive/ Long questions.
Q.2 - Unit-II   (17 Marks)
    A. Objective/ Short Questions.
    B. Descriptive/ Long questions.
Q.3 - Unit-III   (18 Marks)
    A. Objective/ Short Questions.
    B. Descriptive/ Long questions.
Q.4 - Unit-IV   (17 Marks)
    A. Objective/ Short Questions.
    B. Descriptive/ Long questions.

Note: All Objective/ Short Questions are compulsory, no option will be given.

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      II\BCA\Sem-IV
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      UNIVERSITY,, PATAN
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