

Certificate In VB-Oracle Or VB-SQL

Eligibility: 10th
Course Code: CR-04

Duration: 6 Month

Introductions Computer to Fundamentals

Unit-1: Introduction to Computer and Problem Solving: Information and Data Hardware: CPU, Primary and Secondary storage, I/O devices, Bus structure, Computer Peripherals - VDU, Keyboard, Mouse, Printer.

Unit-2: Software: System and Application. Different System Software. Programming Languages: Machine Language, Assembly Language, High Level Language, Object Oriented Language.

Unit-3: Problem solving: Algorithm, Flow charts, Decision tables & Pseudo codes. Number systems and Codes: Number representation: Weighted codes, Non-weighted codes, Positional, Binary, Octal, Hexadecimal, Binary Coded Decimal (BCD), Conversion of bases. Complement notations, Binary, Arithmetic, Binary Codes: Gray, Alphanumeric, ASCII, EBCDIC, Single Error-Detecting and Correcting Codes, Hamming Codes.

Unit-4: Basic Computer Organization - IAS Computer, Von Neumann Computer, System Bus. Instruction Cycle, Data Representation, Machine instruction and Assembly Language, CPU Organization, Arithmetic and Logic Unit, Control Unit, CPU Registers, Instruction Registers, Program Counter, Stack Pointer.

Unit-5: Introduction to Networking, Advantages of Networking; Basic Features, LAN, MAN and WAN; simple PC Based Network: Example, block diagram. Mode of operation and characteristic features. Intranet and Internet; Servers and Clients; Ports; Domain Name Server (DNS); WWW, Browsers Connections: Guided and Unguided media - Dial up, ISDN, ADSN; Cable, Modem; E-mail, Voice and Video Conferencing, Management Information System, Characteristics Of MIS, Advantages And Disadvantages Of MIS, Computer Application In Business, Computer Application In Project Management, Work

Introduction of Visual Basic

Unit-1: Introduction Graphical User Interface(GUI), Programming Language (Procedural, Object Oriented, Event Driven), The Visual Basic Environment, How to use VB compiler to compile/debug and run the programs. Text boxes, Frames, Check Boxes, Option Buttons, Images, Setting a border & Styles, The Shape Control, The line Control, Working with multiple controls and their properties, Designing the User Interface, Keyboard access, tab controls, Default & Cancel property, coding for controls.

Unit-2: Variables, Variables Public, Private, Static, Constants, data Types, Naming rules/conventions, Constants, Named & intrinsic, Declaring variables, Scope of variables, Val Function, Arithmetic Operations, Formatting Data. If Statement, If ?then-else Statement, Comparing Strings, Compound Conditions(And, Or, Not), Nested If Statements, Case structure, Using If statements with Option Buttons & Check Boxes, Displaying Message in Message Box, Testing whether input is valid or not.

Unit-3: Defining/Creating and Modifying a Menu, Using common dialog box, Creating a new sub-procedure, Passing Variables to Procedures, Passing Argument By Val or By Ref, Writing a Function Procedure. Creating , adding, removing Forms in project, Hide, Show Method, Load, Unload Statement, Me Keyword, Referring to Objects on a Different Forms. List Boxes & Combo Boxes, Filling the List using Property window/Add Item Method, Clear Method, List box Properties, Removing an item from a list, List Box/ Combo Box, Do/Loops, For/Next Loops, Using Msg Box Function, Using String Function, Printing to printer using Print Method.

Unit-4: Arrays Single-Dimension Arrays, Initializing an Array using for Each, User-Defined Data Types, Accessing Information with User-Defined Data Types, Using List Boxes with Array, Two dimensional arrays.

Alma Limited

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Classes, Creating a new Class, Creating a new object using a class, choosing when to create New Objects, The Initialize & Terminate events.

Unit-5: Opening and Closing Data Files, The Free File Function, Viewing the data in a file, Sequential File Organization (Writing Data to a sequential Disk File, Creating a sequential data file, Reading the Data in a sequential file, Finding the end of a Data file, Locating a file). Trapping Program Errors, The Err Object, Random Data File Opening a random file, Reading and writing a random file(Get, Put, LOF, Seek). Creating the database files for use by Visual Basic(Using MS-Access), Using the Data Control, setting its property, Using Data Control with forms, avigating the database in code(the record set object using the move next, move previous, move first & move last methods, checking for BOF & EOF, usingist boxes & combo boxes as data bound controls), updating a database file (adding, deleting records). Displaying data in grids (grid control, properties of grid), displaying the record no & record count, opening the database, validation & error trappings (locking text boxes, trap errors with On Error, file open errors), Record set, searching for a specific record (find first, find next, find last, find previous) seek method, working with database fields, creating a new dyna set.

Introduction of Oracle or SQL

Unit-1: Introduction to Relational Databases and Oracle SQL and PL/SQL, .Basic SQL Statements, Restricting and Storing Data.

Unit-2: Functions, Displaying Data from Multiple Tables, Aggregating Data using Group Functions, Normalization.

Unit-3: Sub Queries, Multiple-Column Sub Queries, Producing Readable Output with SQL*Plus, Manipulating Data, Creating and Managing Tables, Including Constraints.

Unit-4: Introduction to PL/SQL Programming, Conditional and Interactive Controls, PL/SQL Stored Functions, Procedures, Triggers, Views.

Unit-5: PL/SQL Packages, Exception handling, Records and Cursors, Database Objects, Introduction to Collections, Large Objects, Client/Server with Oracle & Java.

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