अखिल भारतीय सूचना प्रौद्योगिकी संगठन
All India Information Technology Association
New Delhi
WORK RELATED TO MINISTRY OF INFORMATION TECHNOLOGY (GOVT. OF INDIA)

AIITA CERTIFIED SOFTWARE ENGINEER (ACSE)

Eligibility : 10th　　　　　　　　　　　　　　　　　　　**Duration :** 4 Months
Course Code : AI-01

Computer Fundamentals & IT

Introduction To Computers , Types Of Computer , History Of Computer , Generation Of Computer , PC & Its Components , Disk Defragmentor , Categories Of PC , Evolution Of Micro Processors , Registers Of Micro Processors , Basic Components Of Computer System , Input Output& Storage Units , Software , Types Of Software , Types Of Operating System , Categories Of OS , Example Of Utility Program , Programming Languages , Generations Of Programming Language , Application Software , User &Example Of Application Software , Viruses , Types Of Virus , Virus Detection &Prevention , Communication Process , Communication Protocols , Communication Channel/Media , Modem , Components Of LAN , Types Of Internet Connections , Internet& Its Advantages , Internet Services , WWW & Common Technologies of Internet

Application Software (MS Office)

Office package :-- Word processor Software , Spreadsheet software , Presentation software , Database Management software
MS Office :-- Introduction to Ms Office , Introduction to Ms Word , How to Start , Components of Ms Word , File Menu , Edit Menu , View Menu , Insert Menu , Format Menu , Tools Menu , Table Menu , Window Menu , Help Menu
MS Excel :-- Introduction to MsExcel **,** Calculations **,** Formula **,** Functions **,** Insert Row/Columns **,** Create Chart **,** Format Sheet
Tools Menu :-- Goal Seek **,** Scenario , Auditing
Data Menu :-- Sort **,** Filter **,** Advance Filter **,** Sub total **,** Forms **,** Validations **,** Table **,** Consolidate **,** Pivot table **,** Window **,** Help
Ms PowerPoint :-- Introduction , Insert New Slide , Format Slide , Slide Show

DBMS/RDBMS using Oracle

Oracle Product details , Different data base model , RDBMS components –Kernel , Data dictionary , client /server computing and oracle , Overview of oracle architecture –oracle files , system and user process , Oracle memory , system data base object , protecting data.
Oracle data type , working with tables , data Constraints , column level & table level constraints , defining different constraints on the table defining integrity constraints in the ALTER TABLE command , Select Command , logical operator , Range Searching , Pattern Matching , Oracle Function , Grouping data from table in SQL , Manipulation Data in SQL Joining Multiple Tables(Equi joins) , Joining a Table to self (Self joins) , Sub queries Union , intersect & Minus

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clause , creating view Renaming the column of a view , granting permissions –updating , Selection , Destroying view.

C & C++

Introduction to programming concept :-- Types of programming language , Low level language , High level language , Types of language processor , Header file

Structure of programming language :-- Program structure :-Comment , Define columns &Rows

Data type in C :-- Introduction to data type , Variables , Input statement

Operators and expression :-- Arithmetic operators , Increment and Decrement operator , Relational operator , Logical operator , And operator , Or operator , Not operator , Conditional operator

Decision control structure :-- Introduction to Decision Making statement , The switch statement

loop control structure :-- Introduction , For loop , While loop , Do while loop , Loop termination

Arrays :-- Introduction to arrays

Function :-- Introduction to function , Types of function

Structure :-- What is Structures **,** Structure in c **,** The dot operator **,** Arrays of Structure

Introduction to C++

Overviews of C++ :-- Object oriented Programming, concept , Advantage & ,usage of C++ . Classes and objects :classes structure and classes, union and classes, Friend function ,Friend classes, Inline function ,Scope resolution operator, Static class members, Static data members function, passing object to function, Returning objects , Object assignment.

Constructor & Destructor :-- Constructor and destructor: Introduction constructor , parameterized constructor , multiple constructor in a class , constructor with default argument , copy constructor , copy constructor , Default argument ,destructor.

Operator overloading :-- function & operator overloading: function overloading , overloading constructor function finding the address of an overloading function , operator overloading: creating a member operator function , Creating prefix and postfix form of the increment & decrement operator , overloading the shorthand operation (i .e. +=,-=etc) , operator overloading restrictions , operator overloading using friend function , overloading loading Some special operators , overloading [ ],(),-,comma operator , overloading <<.

Inheritance :-- Base class access control , protected member , Protected base class Inheritance , Inheritance multiple base class , constructors , destructors & Inheritance , when constructor & destructor function are expected , Passing parameter to base class constructors , grating access , Virtual functions & Polymorphism: virtual function , pure virtual function , early Vs , late binding.

The C++ input /output system basic :-- C++ stream , the basic stream classes: C++ Predefined stream , formatted I/o: formatting using the ios member , setting the format flags , clearing format flags , an overloaded form of self

Computer programming , Introduction to Programming languages , Low level languages , Assembly language , Machine languages , Language Processors

Introduction to Visual Basic :-- Introduction to programming , Advantages& Disadvantages , Features **,** Edition

Building a VB Application :-- Project , Forms , Controls , Properties , Event procedures , Modules , VB Operate Modes , Setting Properties , Writing codes

Controls :-- VB standard controls

Data types :-- Types declaration character , Variables , Variable declaration , Default variant , Implicit , Explicit , Procedure level , Form level , Global level

Message Box

Operator in Visual basic :-- Introduction to operator , Arithmetic operator , Relational operator , Logical operator

Conditional branching :-- The if statement & select statement , Simple if statement , If else statement , Nested if statement , If else ladder , The select statement

Special Events :-- Change event , Key down , Key press , Lost focus

System built in Function :-- Data type functions , Math's functions , String function , Conversion function , Date function , Input box function

Loops :-- For loops , For each loops , While loops , Do while loops , With ....end with

Procedure &Modules :-- Introduction to procedure & function , Sub procedure , Function procedure , Property procedure , Let method , Get method , Set method , Modules

Menu editor :-- Introduction to menu editor , document interface , MDI form , Popup menus

Special controls :-- Toolbar control , Status bar , Calendar control , Date picker , Ms tabbed dialog control

Error in Debugging :-- Introduction to errors , Kinds of errors , Debugging , Handling run time error

Common Dialog Controls :-- Introduction to common dialog control , Open dialog control , Save dialog control , Font dialog control , Print dialog control

File System Object Component

Visual basic and data base :-- Introduction to data base , Data control , Database engine , ADO data control , Data control properties , Data bound control , ADO data control methods

Programming with ADO :-- Connection object , Command object , Recordset object , Cursor type , ADO library

ADO Data Environment

Ms Hierarchical flex grid control

Data Report :-- Introduction to data report , Report section , Other report section

Component Basic :-- Introduction to com , Active X EXE , Active X DLL , Active X Control , Check the control , Creating active XDDL , Creating active X control **,** Package & Development Wizard