



Live Course
(Live Lectures)

DIPLOMA IN COMPUTER PROGRAMMING

COURSE OVERVIEW

The Course introduces you to the methodology and data structure in computers and moves on from learning all the computer languages that are in demand nowadays. We start with procedural-oriented languages like C and then move on to Object Oriented Languages like C++, Java, and Python. For rapid development GUI based programs we will also learn VB.NET. In the end, we have a hands-on live project where we will implement all the concepts learned.

COURSE OBJECTIVE

The objective of this course is to make learners develop the ability to program in different language paradigms and evaluate their relative benefits. An understanding of the key concepts in the implementation of common features of programming languages.

WHAT YOU WILL LEARN

In this course, you will learn C, C++, Python, Java, Kotlin, and .net All topics from basic to advance

COURSE SKILL SET

Data structures and algorithms, Object-oriented programming (OOP) languages, Integrated development environments (IDEs), Problem-solving, java systems, core java, java build tools, Big data Cloud deployment basics

PROGRAM HIGHLIGHTS

Instructor- Dr. Priti Maheshwary

Instructor- Dr. Pooja Bijlani

Instructor- Umesh Kumar

Duration- 1 Year

Course Fees - 60,000

Eligibility- Any graduate with a Science stream

No. of Modules - 9 modules + 1
Project + 3 Live Lecture
Language-English

Shareable certificate- Yes
Webinar- Yes

PROGRAM SYLLABUS

Paper 1

Paper 1- Live Lecture 1

Chapter 1- Basic Programming
Methodology

Chapter 2- Algorithm, Flowcharts

Chapter 3- Decision Logic Structure

Paper 1- Live Lecture 2

Chapter 4- Looping Structure

Chapter 5 – Arrays

Paper 1- Live Lecture 3

Paper 2

Chapter 1 - About C Language, Operators,
and Expressions

Chapter 2 - Decision Making, Branching,
and Looping

Chapter 3- Arrays

Chapter 4 - Functions and User-Defined
Functions

Chapter 5 - Pointers, Structures, Unions,
and File Management in C

Paper 3

Chapter 1 - Introduction to Data Structure,
Searching, and Sorting

Chapter 2 - Data Structure

Chapter 3 - Linked Lists

Chapter 4 - Non-Linear Data Structure

Chapter 5 - Binary Tree and Hashing

Paper 4

Chapter 1 - Introduction to object-oriented
programming

Chapter 2 - Basic of C++, data type, control
structure, operator, and functions

Chapter 3- Constructors, Overloading,
Inheritance, and Pointers

Chapter 4 - Array, Vector, and String in C++

Chapter 5 - File Handling and Exceptions
in C++

Paper 5

Chapter 1 - Introduction to JAVA,
Constant, Variables and Data Types,
Operators and Control Structures

Chapter 2 - Java Program Basic Structure,
Arrays, and Strings

Chapter 3- Inheritance and Polymorphism,
Packages

Chapter 4 - Exception Handling, Applets,
and Input/output in Java

Chapter 5 - Multithreaded Programming

Paper 6

Chapter 1 - Basics of Kotlin Programming

Chapter 2 - Function, Array, Strings, and Exception Handling in Kotlin

Chapter 3 - Collections in Kotlin

Chapter 4 - Object Oriented Programming in Kotlin

Chapter 5 - Kotlin Regular Expressions and Reflections

Paper 7

Chapter 1 - Python Language Basics

Chapter 2 - Data Structures in Python Language

Chapter 3 - Function & File Handling

Chapter 4 - Classes, Modules, and Exceptional Handling

Chapter 5 - Database & GUI Programming

Paper 8

Chapter 1 - NET and Core C#

Chapter 2- Operators, Control Structures, Functions in C#

Chapter 3 - Object-Oriented Programming (OOPs) in C#

Chapter 4 - Exception Handling and Delegates

Chapter 5 - File Handling in C#

Paper 9

Chapter 1- .NET Framework and VB.NET

Chapter 2 - Operators, Control Statements in VB.NET

Chapter 3 - VB.NET Form Control, Menus, and Dialog Boxes

Chapter 4 - Object Oriented Programming using VB.NET, Functions, Procedures, and Exception handling

Chapter 5 - Database Connectivity Using VB.NET

PROJECT

The objective of the Project is to implement the concepts of Programming learned in the Semester in real-world scenarios.

For Project Development any of the Computer Languages that have been

learned can be used like VB.NET, C#, Java, Kotlin, and Python.

You have to develop an Application and this will be your Major Project for the Final Semester



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