

Honours Diploma in Advanced Programming (HDAP)

➤ **Concept of Programming**

Pseudo-metrics, Methodology, Languages

➤ **Flow Chart**

Introduction, Symbols, Data Flow Extensions, Exercise

➤ **C++**

Introduction, Data Types, Operators, Control Structure, Functions, Arrays, Operator Overloading, Inheritance, Virtual Function, Polymorphism, Pointers, Exercise

➤ **C#**

Introduction to C#, Evaluation of C#, Advantages of C#, Application of C#, Difference between C & C#, Difference between Java & C#, Introduction of C# Environment, Overview of C#, Literals, Variables, Data Types, Operators and Expression, Decision Making and Branching, Looping, Method in C#, Arrays, String Handling, Structure and Enumeration, Classes & Objects, Operator Overloading, Exercise

➤ **Visual Basic 6.0**

Introduction of Visual Basic, Visual Basic Environment, Introduction to VB Control, Data Types, Variable, Constants, Calculation, Decision & Controls, Menus, Sub Procedures and Sub functions, Multiple Forms, List, Loops, Printing, Array, Data file, Exercise

➤ **Oracle 9i**

Introduction to SQL, SQL & DBMS, SQL Basic, Simple Queries, Multi table Queries, Database Updates, Data Integrity, Transaction Processing, Creating a Database, Views, Security, Exercise

➤ **Java**

Introduction, Data Types, Variables, Arrays, Operators, Control Statements, Introducing Classes, Inheritance, Packages and Interfaces, Exception Handling, Multithreaded Programming, I/O Applets, String Handling, Exploring java.lang, Java.util, Java. I/O

➤ **Techniques of Software Development**

Requirements, Design, Implementation, Verification, Maintenance

➤ **Assignment & Project**



Course Code:- LT 10

Duration:- One Year