

Advanced Diploma in Computer Programming (ADCP)

Duration: 12 Months

Eligibility: Graduate

Timings: 1 hr Theory and 1 hr Practical Class

Syllabus Coverage:

Fundamental of Computer:

Theoretical Work:- Introduction to Computer, Definition of Computer, Computer Characteristics, Classification of Computer, Input/Output Unit- CPU, History & Generations of Computers, Bit & Bytes, Introduction to Computer Hardware-Input & Output Devices, Memory & its types, Introduction to Computer Software & its Classification.

Practical Work: English typing-Tutor (*During theory of Fundamental*)

Operating System:

Theoretical Work:- Operating System- Definition & Function, Introduction to Window & its current versions, Introduction & types of Window.

Practical Works:- Start up window on your CPU & Monitor, Introduction to Window Accessories- Calculator, Note Pad, Word Pad, and Paint & Clock.

HTML & DHTML:

HTML

Theoretical cum Practical Work:- Introduction to HTML, Concept, Versions of HTML, HTML editors, Elements of HTML-Tags/Attributes, To write a HTML document

Minimum Required Tags in HTML-HTML Tag./Head Tag/Title Tag/Body Tag, A Sample of HTML Document, Headings, Paragraphs, Line Break, **Lists-** Number list/Unnumbered List/Definition Lists/Nested List, Type Attribute, Preformatted Text, **Using Links-**WebPages/Mailto/Images, Specify Size of images, **Character Formatting-**Bold/Underline/Italic/Suscripts/Superscripts/Alignment Attribute/Changing Font Size & Color, Setting the Color of Body Background/Text & Links. Background Graphics or Images.

DHTML

Theoretical Cum Practical Work:- Introduction to DHTML, **Table-**Tag/ Border/Cells/Row/ Space/Size/Alignment/Spanning Rows & Columns/Specify Background Color/Creating Table with in Table, **Frames, Using Forms-** Setting Up a Form/Creating a text box/Creating a Radio Button/Creating a Checkbox/Creating a Menu/Creating Buttons a Submit or Accept, Reset or Refresh.

JavaScript Programming Language

Theoretical Work:- Introduction to JavaScript, Overview, Difference between JavaScript & Java, Versions of JavaScript, Syntax & Conventions, Writing a Simple JavaScript Program, Variables & their Naming Rules, Variable Scopes, Expressions, Conditional Expressions, Loop Statements-for Statement/while Statements/break Statements/continue Statements, Functions, Arrays, Objects, Event handlers- onClick/onMouseOver/onSubmit/onFocus/onChange/onBlur/onLoad/onunload, Dialog boxes -Alert, Confirm & Prompt

Practical Work:- Script for Creating an Alert Dialog Box, Script for Creating an Prompt Dialog Box, Some Scripts for Practicing in Java Introduction to Basic. Data structures and Algorithms

CSS (Cascading Style Sheet):

Introduction, Levels of Style Sheets, Style Specification Formats, Selector Forms, Property Value Forms, Font Properties, List Properties, Color, Alignment of Text, Box Model, Background Images, Conflict Resolution.

SQL (Structured Query language):

Theoretical Cum Practical Work:- Introduction of Oracle/RDBMS, objectives, SQL*Plus, SQL Command

DDL-Create, Alter, Drop. **DML-** Insert, Delete, Update, select. **DCL-** Grant, Revoke

Creating a table-Constant, Data Types, Operators & Functions, Alter a table, Character set, Identifier, constant, variables

Constraints- Primary key, unique key, check constraint, foreign key. **Joins**

React

Advanced Website Development, frontend and backend with Databases, API development and deployment. Practical Projects for live website and game development in Javascript.

AJAX

Computer Lab Practical

Viva