



(A Venture of Chandigarh ETC Services Pvt. Ltd.)

An ISO 9001:2015 Certified Organisation with Completely Online Management System

Website : www.citcchandigarh.com

Course: Diploma in Computer Programming

Batch Name: DCP

Eligibility: 12th

Course Start: 1st of Every Month

Course Duration: 180Hours

Courses / Modules Paper

Module 1:

Paper 1	Paper 2
HTML, CSS, Bootstrap	Jquery, JavaScript

Module 2: Choose any one Paper

Paper 1	Paper 2	Paper 3
Language C	Language C++	Java

Paper 4	Paper 5
Php	Python

Module 1:

Paper 1 : HTML, CSS, Bootstrap

1: Starting with HTML

- 1.1 Introduction to HTML
- 1.2 What is HTML
- 1.3 HTML Versions
- 1.4 Web Browsers
- 1.5 HTML Editors
- 1.6 HTML Tags

2: HTML Images

- 2.1 HTML Images
- 2.2 alt attribute with images
- 2.3 style Attribute
- 2.4 Change the Height and Width of Image
- 2.5 Images as a Floating
- 2.6 HTML Images as a Link
- 2.7 Background Images
- 2.8 The <picture> Element
- 2.9 HTML Images vs Title Attribute

3: Links in HTML

- 3.1 Link
- 3.2 HTML Links
- 3.3 The Target Attribute
- 3.4 Images as Link
- 3.5 HTML Links Titles
- 3.6 External Paths
- 3.7 HTML Link Colors

4: HTML Lists

- 4.1 List
- 4.2 Types of Lists in HTML
 - Unordered List
 - Ordered List
 - Definition List

5: HTML Tables

- 5.1 Table Introduction
- 5.2 HTML Table-Adding Borders
- 5.3 HTML Table-Collapsed Borders
- 5.4 The Empty-cells Property
- 5.5 Table Heading Alignment
- 5.6 Cell Padding and Border Spacing
- 5.7 Cells that Span many Columns
- 5.8 Cells that Span many Rows
- 5.9 Adding a Caption
- 5.10 Table Styling

6: HTML Forms

- 6.1 The <form> Element
- 6.2 Text
- 6.3 Radio Button Input
- 6.4 The Submit Button
- 6.5 Attributes
- 6.6 Grouping Form Data with <fieldset>
- 6.7 The <select> Element
- 6.8 The <option> Element
- 6.9 Visible Values
- 6.10 Allow Multiple Selection
- 6.11 The <textarea> Element
- 6.12 The <datalist> Element
- 6.13 The Output Element
- 6.14 Input Type Password
- 6.15 Input Type Reset
- 6.16 Checkboxes
- 6.17 Input Type Color
- 6.18 Input Type Date
- 6.19 Input Type Email
- 6.20 Input Type Number
- 6.21 Input Type Range
- 6.22 Input Type Search
- 6.23 Input Type Tel
- 6.24 Input Type Time
- 6.25 Input type URL

- 6.26 Input Type Week
- 6.27 Input Attributes

7: HTML Blocks and Classes

- 7.1 HTML Blocks Introduction
- 7.2 The <div> Element
- 7.3 The Element
- 7.4 Using the Class Attribute
- 7.5 Using the id Attribute
- 7.6 HTML Iframes

CSS

8: Starting with CSS

- 8.1 What is CSS?
- 8.2 CSS Syntax
- 8.3 CSS Selectors
 - The id Selector
 - The class Selector
- 8.4 Grouping Selectors
- 8.5 CSS Comments
- 8.6 CSS File Inclusion
- 8.7 Multiple Style sheets
- 8.8 Cascading Order

9: CSS Colors

- 9.1 CSS Colors
- 9.2 Background Color
- 9.3 Text Color
- 9.4 Border color
- 9.5 Color Values
- 9.6 RGB Values
- 9.7 HEX Value
- 9.8 HSL Value
- 9.9 Saturation
- 9.10 Lightness
- 9.11 RGBA Value
- 9.12 HSLA Value

10: CSS Background

- 10.1 CSS Backgrounds
 - Background Color
 - Background Image
 - Background-Shorthand Property

11: CSS Borders

- 11.1 CSS Borders
 - Border Style Property
 - Border width Property
 - Border Color Property
 - Border-Individual Sides
 - Border -Shorthand Property
 - Rounded Borders

12: CSS Margins

- 12.1 CSS Margins
- 12.2 Margin Properties
- 12.3 Margin-Shorthand Property
- 12.4 the Auto Value
- 12.5 The Inherit Value

13: CSS Padding

- 13.1 CSS Box Model
- 13.2 CSS Padding Properties

- Padding-Top
- Padding-Bottom
- Padding-Left
- Padding-Right
- Padding

14: CSS Text

- 14.1 CSS Text Properties
- 14.2 Types of CSS Text Properties
 - Color Property
 - Text-Align Property
 - Text-Decoration Property
 - Letter-Spacing Property
 - Word-Spacing Property
 - Text-Indent Property
 - Direction Property
 - White-Space Property
 - Line-Height Property
 - Text-Shadow Property
 - Text-Transform Property

15: CSS Font

- 15.1 CSS Font Properties
- 15.2 Types of CSS Font Properties
 - Font-Family Property
 - Font-Style Property
 - Font-Size Property
 - Font-Weight Property
 - Font-Variant Property
 - Font Property

16: CSS Lists

- 16.1 CSS List Properties
- 16.2 Types of CSS List Properties
 - List-Style-Type Property
 - List-Style-Image Property
 - List-Style-Position Property
 - Marker -Offset Property
 - List-Style Property
- 16.3 Styling with Colors

17: CSS Scrollbars

- 17.1 CSS Overflow/Scrollbar Properties
- 17.2 Types of Overflow Properties Values
 - Visible
 - Hidden
 - Scroll
 - Auto
- 17.3 Overflow-x and Overflow-y

18: CSS Tables

- 18.1 CSS Tables Properties
- 18.2 Types of CSS Table Properties
 - Border Property
 - Border-Collapse Property
 - Width and Height Property
 - Vertical Align Property
 - Border-Spacing Property
 - Caption-Side Property
 - Empty-Cells Property

- Table-Layout Property
- Border-Bottom Property
- Zebra-Striped Property

18.3 :hover Selector

Bootstrap

1: Introduction to Bootstrap

- 1.1 Introduction
- 1.2 What is Responsive Website?
- 1.3 Bootstrap Package
- 1.4 Advantages of Bootstrap
- 1.5 Bootstrap File Structure
 - Folders in Bootstrap File Structure
- 1.6 Structure of Bootstrap Page
- 1.7 Bootstrap Container

2: Bootstrap Grid System

- 2.1 Grid System
- 2.2 grid Classes
- 2.3 Grid Options
- 2.4 Structure of Bootstrap Grid

3: Bootstrap Typography/Text

- 3.1 Typography Introduction
- 3.2 Typography Elements
- 3.3 Contextual Colors and Backgrounds
 - .text-muted
 - .text-primary
 - .text-success
 - .text-info
 - .text-warning
 - .text-danger

4: Bootstrap Tables

- 4.1 Basic Table in Bootstrap
- 4.2 Striped Rows Table
- 4.3 Bordered Table
- 4.4 Hover Rows
- 4.5 Condensed Table
- 4.6 Contextual Classes in BS Tables
 - .active
 - .success
 - .info
 - .warning
 - .danger
- 4.7 Responsive Tables

5: Bootstrap Images

- 5.1 Bootstrap Image Classes
 - .img-rounded
 - .img-circle
 - .img-thumbnail
- 5.2 Responsive Images
- 5.3 Responsive Videos/Embeds

6: Bootstrap Jumbotron & Page Headers

- 6.1 Creating Jumbotron
 - Jumbotron Inside Container
 - Jumbotron Outside Container
- 6.2 Creating Page Headers

7: Bootstrap Alerts and Wells

- 7.1 Alert Classes
 - .alert-success
 - .alert-info
 - .alert-warning
 - .alert-danger
- 7.2 Links in Alerts
- 7.3 Closing Alerts
- 7.4 Bootstrap Wells
- 7.5 Well Size

8: Bootstrap Buttons & Button Groups

- 8.1 Bootstrap Button Classes
- 8.2 Button Size
- 8.3 Button States
- 8.4 Block-Level Buttons
- 8.5 Button Groups
- 8.6 Vertical Button Group
- 8.7 Justified Button Groups

9: Bootstrap Progress Bar

- 9.1 Basic Progress Bar
- 9.2 Progress Bar with Label
- 9.3 Colored Progress Bar
- 9.4 Striped Progress Bar
- 9.5 Animated Progress Bar

- 9.6 Multicolor Progress Bar

10: BS Drop-Down & Navigation Bar

- 10.1 Basic Drop-down
- 10.2 Drop-down Headers
- 10.3 Active and Disable Items
- 10.4 Drop-down Position
- 10.5 Navigation Bars
- 10.6 Inverted Navigation Bar
- 10.7 Nav-bar with Drop-downs
- 10.8 Right-aligned Navigation Bar

11: Bootstrap Tabs and Pills

- 11.1 Bootstrap Menus
- 11.2 Bootstrap Tabs
- 11.3 Tabs with Drop-down Menus
- 11.4 Pills
 - Vertical Pills
 - Vertical Pills in a Row
 - Pills with Drop-down Menus

12: Bootstrap Form Inputs

- 12.1 Supported Form Controls
- 12.2 Bootstrap Inline Class
- 12.3 Input Sizing Classes
 - .input-lg
 - .input-sm

13: Bootstrap Popover

- 13.1 Creating Bootstrap Popover
- 13.2 Positioning Popover
- 13.3 Closing Popover

Paper 2: JQuery, JavaScript Jquery

1: Introduction to jQuery

- 1.1 What is jQuery
- 1.2 Why jQuery
- 1.3 Add jQuery to Web Page
 - Download the jQuery library from JQuery.com
 - Include jQuery from a CDN
- 1.3 jQuery Syntax Overview

2: jQuery Selectors

- 2.1 The Element Selector
- 2.2 The #id Selector
- 2.3 The .class Selector
- 2.4 The Universal Selector
- 2.5 Multiple Elements Selectors

3: jQuery Events

- 3.1 What are jQuery Events
- 3.2 Types of jQuery Events
 - Mouse Event
 - Keyboard Event
 - Form Event
 - Document/Window Event
- 3.3 jQuery Event Methods

4: jQuery Effects

- 4.1 Types of jQuery Effects
 - Display Effects
 - Fading Effects
 - Sliding Effects
 - Other Effects
- 4.2 jQuery Chaining

5: jQuery Interactions

- 5.1 JQ Draggable
- 5.2 JQ Dropable
- 5.3 JQ Resizable
- 5.4 JQ Selectable
- 5.5 JQ Sortable

Java Script

1: Java Script Overview

- 1.1 What is Java Script ?
- 1.2 Client Side Java Script
- 1.3 Advantages and Disadvantages of JS
- 1.4 JS Syntax
- 1.5 Java Script Variables
 - Numbers
 - Strings
 - Boolean

2: Java Script Operators

- 2.1 Operators in JS

- Arithmetic Operators
- Comparison Operators
- Logical Operators
- Assignment Operators
- Conditional Operators
- Bitwise Operators
- Typeof Operator

3: Java Script Statements

- 3.1 Control Statements
 - If Statement
 - If...else Statement
 - If...elseif Statement
- 3.2 Loop Control Statements
 - While Loop
 - Do While Loop
 - For Loop
 - For in Loop

4: Java Script Functions and Events

- 4.1 Define and Declare a Function
- 4.2 Calling a Function
- 4.3 Function Parameters
- 4.4 Return
- 4.5 Events in JavaScript
 - On Click Event
 - On Submit Event
 - On Mouse Over Event
 - On Mouse Out Event

5: Java Script Cookies

- 5.1 What are Cookies ?
- 5.2 Working of Cookies
- 5.3 Variables in Cookie
 - Name
 - Value
 - Expire
 - Path
 - Domain
 - Secure
- 5.4 Storing Cookies
- 5.5 Reading Cookies
- 5.6 Set the Expire Date of a Cookie
- 5.7 Deleting a Cookie

6: Java Script Dialog Boxes

- 6.1 Alert Dialog Box
- 6.2 Confirm Dialog Box
- 6.3 Prompt Dialog Box

7: JS Form Validation

- 7.1 What is Validation ?
- 7.2 Use of the Validation
- 7.3 Types of Validations
 - Basic Validation
 - Data Format Validation

Module 2

Paper 1: Language C

1: Introduction of C

- 1.1 History
- 1.2 Why C language
- 1.3 Getting g started with C
- 1.4 Writing first program: hello world
- 1.5 Algorithm and flowchart
- 1.6 Understanding the structure and syntax of C
- 1.7 C programming style

2: Fundamentals of C

- 2.1 Introduction
- 2.2 Character set
- 2.3 Keywords
- 2.4 Identifiers
- 2.5 Variables
- 2.6 Data types
- 2.7 Constants
- 2.8 Declaring a keyword
- 2.9 Reading data from keyboard

3: Operators and expressions

- 3.1 Introduction
- 3.2 Arithmetic operator
- 3.3 Increment and Decrement operator
- 3.4 Assignment operator

- 3.5 Relational operator
- 3.6 Logical operator
- 3.7 Conditional operator
- 3.8 Bitwise operator
- 3.9 Special operators

4: Control Statements

- 4.1 Introduction
- 4.2 Branching statements
 - If
 - Nested if
 - If else
 - Nested if else
- 4.3 Looping statement
 - For loop
 - While loop
 - Do while loop
- 4.4 Jumping statement
 - Goto
 - Break
 - Continue

5: Function in C

- 5.1 Introduction
- 5.2 Types of functions
- 5.3 Types of user define functions
 - No return type with no arguments
 - Return type with no arguments
 - No return type with arguments
 - Return type with arguments
- 5.4 Need of functions
- 5.5 Scope rules
- 5.6 Recursion
- 5.7 Function using arguments
 - Call by value
 - Call by reference

6: Array in C

- 6.1 Introduction
 - Declaration of Array
 - Initializing an array
 - Accessing an Array
- 6.2 One-dimensional array
- 6.3 Two-dimensional array
 - Nesting of loops
- 6.4 Multi-dimensional array
- 6.5 Dynamic Array

7: Pointers in C

- 7.1 Introduction
- 7.2 Declaration of pointers
- 7.3 Initialization of pointers
- 7.4 Accessing variable through pointer
- 7.5 Pointer to a pointer
 - Declaring a double pointer
- 7.6 Operation on pointer
 - Increment and decrement operator
 - Addition and subtractions of constant value
 - Subtracting two pointers
 - Comparison between two pointers
- 7.7 Pointer to array
- 7.8 Array to pointer
- 7.9 Passing pointer as a function
- 7.10 Pointer to structure
 - Pointer pointing to a function

8: Structures in C

- 8.1 Introduction
- 8.2 Defining a structure
- 8.3 Declaring a structure member
 - Declaring structure variable separately
 - Declaring structure variable along with definition
- 8.4 Accessing structure member
 - With Dot operator
 - With arrow operator
- 8.5 Structure initialization
- 8.6 Array of structure
- 8.7 Using structure as a function argument
 - Passing structure member as an argument
 - Passing structure variable as an argument
 - Passing structures pointer as an argument
- 8.8 Array within structure
- 8.9 Nested structure
- 8.10 typedef keyword
 - Typedef vs #define

9: Union in C

- 9.1 Introduction
- 9.2 Declaration of union
- 9.3 Accessing union member
- 9.4 Bit field

10: Input and output

- 10.1 Introduction
- 10.2 Standard files
- 10.3 Formatted input output
 - scanf()
 - printf()
- 10.4 Unformatted input output
 - getchar()
 - Getch()
 - gets()
 - putchar()
 - puts()
- 10.5 Error Handling
 - errno
 - strerror
 - perror

11: File I/O

- 11.1 Introduction
- 11.2 Needs of files
- 11.3 Types of files
 - Text files
 - Binary files
- 11.4 Files operations
 - File creation
 - Opening a file
 - Reading data from file
 - Writing data to file
 - Closing a file
- 11.5 Reading writing text files
 - getc()
 - putc()
 - getw()
 - putw()
 - getchar()
 - putchar()
 - fprintf()
 - fscanf()
- 11.6 Reading writing binary files
 - fread()
 - fwrite()

Paper 2: Language C++

1: Introduction of C++

- 1.1 History
- 1.2 Why Java language
- 1.3 Getting started with C++
- 1.4 Writing first program: hello world
- 1.5 Algorithm and flowchart
- 1.6 Understanding the structure and syntax of C++
- 1.7 C++ programming style

2: Principle of OOP

- 2.1 Introduction to OOP
- 2.2 OOP vs Procedural oriented programming
- 2.3 objects
- 2.4 Classes
- 2.5 Encapsulation
- 2.6 Abstraction
- 2.7 Polymorphism
- 2.8 Inheritance
- 2.9 Applications of OOP

3: Operators in C++

- 3.1 Introduction to operators
- 3.2 Special operators
- 3.3 scope resolution operator
- 3.4 Member dereferencing operator
- 3.5 Memory management operator
- 3.6 Manipulators and Typecast operator

4: variables and Functions in C++

- 4.1 Introduction
- 4.2 Functions
 - Devlaration
 - Definition
- 4.3 Variables
 - Declaration
 - Scope of variables
- 4.4 Arrays and Strings

5: Classes and Objects

- 5.1 Introduction
- 5.2 Declaring a Class
 - Data members
 - Member function
 - Private and public members
 - Accessing member functions
- 5.3 Functions
 - Class function definition
 - Member function definition
- 5.4 Objects
 - Creating an object
 - Accessing members using objects
- 5.5 Object as a function argument
 - Pass by value
 - Pass by reference

6: Operator Overloading

- 6.1 Introduction
- 6.2 Operator Overloading Methods
- 5.3 Type Conversion

7: Constructors in C++

- 7.1 Introduction
- 7.2 Declaration of Constructor
- 7.3 Definition of Constructor
- 7.4 Types of Constructor
 - Default Constructor
 - Parameterized Constructor
 - Copy Constructor
- 7.5 Destructor
 - Definition
 - Use of Destructor

8: Inheritance

- 8.1 Introduction
- 8.2 Base Class and Derived Class
- 8.3 Visibility Mode
 - Private
 - Public
 - Protected
- 8.4 Types of Inheritance
 - Single inheritance
 - Multilevel inheritance
 - Multiple Inheritance
 - Hierarchical Inheritance
 - Hybrid inheritance
- 8.5 Nesting of Classes

9: Polymorphism

- 9.1 Introduction
- 9.2 Application and Demonstration
- 9.3 Early Binding
- 9.4 Polymorphism with pointers
- 9.5 Early Binding
- 9.6 Late Binding
- 1.7 Virtual Functions
- 9.8 Pure Virtual Functions

10: Exception Handling

- 10.1 Introduction
- 10.2 Exception handling mechanism
 - Throw an Exception
 - Catch an Exception
 - Rethrow an Exception

11: Input and Output in C++

- 11.1 Introduction
- 11.2 Standard Streams
- 11.3 Manipulators
- 11.4 Unformatted Input
- 11.5 Unformatted Output

12: File Processing

- 12.1 Introduction
- 12.2 Opening and Closing of file
- 12.3 Binary File Operations
- 12.4 Structures and file operations
- 12.4 Classes and File operations
- 12.5 Random File Processing

12: File Processing

- 12.1 Introduction
- 12.2 Customizing a template method
- 12.3 Standard Template Library Containers

Paper 3: Java

1: Introduction of Java

- 1.1 Introduction
- 1.2 History
- 1.3 Introduction to JVM, JDK and JRE
- 1.4 Writing first program: hello world
- 1.5 Understanding the structure and syntax of Java
- 1.6 Java programming style

2: Principle of OOP

- 2.1 Introduction to OOP
- 2.2 OOP vs Procedural oriented programming
- 2.3 objects
- 2.4 Classes
- 2.5 Encapsulation
- 2.6 Abstraction
- 2.7 Polymorphism
- 2.8 Inheritance
- 2.9 Applications of OOP

3: Java Fundamentals

- 3.1 Introduction
- 3.2 Variables
- 3.3 Data types
- 3.4 Operators
- 3.5 Expressions
- 3.6 Control Structure

4: Classes and Object

- 4.1 Introduction
- 4.2 Declaring a Class
 - Data members
 - Member function
 - Private and public members
 - Accessing member functions
- 4.4 Objects
 - Creating an object
 - Accessing members using objects
- 4.5 Method overloading

5: Inheritance

- 5.1 Introduction
- 5.2 Types of Inheritance
 - Single inheritance
 - Multilevel Inheritance
 - Hierarchical inheritance
- 5.3 Member Accessing
- 5.4 Super Keyword and This Keyword
- 5.5 Overloading and Overriding
- 5.6 Final Keyword
- 5.7 Abstraction
- 6.8 Encapsulation

6: Packages

- 6.1 Introduction
- 6.2 Defining a Package
- 6.3 ClassPath
- 6.4 Importing a package
- 6.5 Qualified Path
- 6.6 Unqualified Path
- 6.7 Access Specifier

7: Interfaces

- 7.1 Introduction
- 7.2 Member Access
- 7.3 Defining Interface
- 7.4 Multiple Inheritance using Interface
- 7.5 Hybrid Inheritance using Interface

8: String Handling

- 8.1 Introduction
- 8.2 Immutable String
- 8.3 String comparison
- 8.4 String Concatenation
- 8.5 Substring
- 8.6 Methods of String class
- 8.7 StringBuffer class

- 8.8 StringBuilder class
- 8.9 Creating Immutable class
- 8.1 toString method

9: Exception Handling

- 9.1 Introduction
- 9.2 Throwable Class
- 9.3 try and catch block
- 9.4 Multiple catch Block
- 9.5 Nested try statement
- 9.6 finally block
- 9.7 throw keyword
- 9.8 throws keyword
- 9.9 Exception handling with method overriding
- 9.10 User define exception

10: Multithreading

- 10.1 Introduction
- 10.2 Life cycle of threads
- 10.3 Creating threads
- 10.4 Thread scheduler
- 10.5 Sleeping a thread
- 10.6 Joining a thread
- 10.7 Thread Priority
- 10.8 Thread pooling
- 10.9 Thread Group
- 10.10 Garbage Collection
- 10.11 Runnable Class

Paper 4: Php

1: PHP Introduction

- 1.1 What is PHP
- 1.2 Uses of PHP
- 1.3 Why PHP
- 1.4 Installing PHP
- 1.5 PHP Syntax Overview
 - Basic PHP Syntax
 - Comments in PHP
 - PHP Echo and Print
 - PHP Variables
 - PHP \$ and \$\$

2: PHP Constants & Magic

- 2.1 PHP Constant Types
- 2.2 Creating Constant
- 2.3 Difference b/w Constant & Variable
- 2.4 Magic Constants
 - `__LINE__`
 - `__FILE__`
 - `__DIR__`
 - `__FUNCTION__`
 - `__CLASS__`
 - `__METHOD__`

3: PHP Operators

- 3.1 Types of PHP Operators
 - Arithmetic Operators
 - Assignment Operators
 - Comparison Operators
 - Increment/Decrement Operators
 - Logical Operators
 - String Operators
 - Array Operators

4: PHP Data Types

- 4.1 Data Types
- 4.2 Boolean
- 4.3 `is_bool` Function
- 4.4 `is_int()` Function
- 4.5 `is_float` Function
- 4.6 `is_null` Function

5: PHP Control Statements

- 5.1 PHP Decision Making Statements
 - `if..else` Statement
 - `if..elseif..if` Statement
 - `elseif` Statement
 - `Switch` Statement
- 5.2 PHP Loops
 - `For` Loop
 - `While` Loop
 - `Do while` Loop
 - `For Each` Loop
 - `The Break` Statement
 - `The Continue` Statement

6: PHP Arrays and Strings

- 6.1 Arrays
- 6.2 Creating an Array
- 6.3 Types of PHP Arrays
 - Indexed/Numeric Array
 - Associative Array
 - Multidimensional Array
- 6.4 Sorting Arrays
- 6.5 PHP Sort Array Functions
- 6.6 PHP Strings
- 6.7 PHP String Functions

7: PHP Functions & Superglobals

- 7.1 Creating and Calling PHP Function
- 7.2 Argument Passing Techniques
 - Pass by Value
 - Pass by Reference
- 7.3 PHP Recursive Function
- 7.4 PHP Superglobal Variables
 - \$GLOBALS
 - \$_SERVER
 - \$_REQUEST
 - \$_POST
 - \$_GET
 - \$_FILES
 - \$_COOKIE
 - \$_SESSION
 - \$_ENV

8: Form Handling and File Inclusion

- 8.1 Collect Data from Form
 - By GET Method
 - By POST Method
- 8.2 Form Validation
- 8.3 PHP File Inclusion
 - The include() Function
 - The require() Function
 - Difference b/w include() and require()

9 PHP File Handling

- 9.1 File Handling Functions
- 9.2 Opening a File
- 9.3 Reading a File
- 9.4 Writing a File
- 9.5 Closing a File
- 9.6 Deleting a File

10: Cookie and Session

- 10.1 Creating Cookie
- 10.2 Setting Cookie
- 10.3 Deleting Cookie
- 10.4 PHP Sessions
- 10.5 Start PHP Session
- 10.6 Accessing Session Variable Values
- 10.7 Modifying Session Variable
- 10.8 Destroy a Session

11: PHP Exception Handling

- 11.1 What is an Exception
- 11.2 Try, Throw and Catch

12: Mail and File Uploading

- 12.1 Sending Mails
- 12.2 Sending HTML Mails
- 12.3 Creating an Upload Form

Paper 5: Python

1: Introduction

- 1.1 Introduction
- 1.2 History
- 1.3 Setting up Path
- 1.4 Working with python
- 1.5 Basic Syntax
- 1.6 Variable and DataType
- 1.7 Operator

2: Conditional Statements

- 2.1 if Statement
- 2.2 if else Statement
- 2.3 Nested if else

3: Looping

- 3.1 For loop
- 3.2 while Loop
- 3.3 Nested Loops

4: Control Statement

- 4.1 Break
- 4.2 Continue
- 4.3 Pass

5: String Manipulations

- 5.1 Accessing String
- 5.2 Basic Operations
- 5.3 String Slices
- 5.4 Function and Methods

6: Lists

- 6.1 Introduction
- 6.2 Accessing Lists
- 6.3 Operations
- 6.4 Working with Lists
- 6.5 Functions and Methods

7: Tuple

- 7.1 Introduction
- 7.2 Accessing Tuples
- 7.3 Operations
- 7.4 Working
- 7.5 Functions and methods

8: Dictionaries

- 8.1 Introduction
- 8.2 Accessing values in Dictionaries
- 8.3 Working with Dictionaries
- 8.4 Properties
- 8.5 Functions

9: Functions

- 9.1 Defining a Function
- 9.2 Calling a Function
- 9.3 Types of Function
- 9.4 Function Argument
- 9.5 Anonymous Functions
- 9.6 Global and Local Variables.

10: Modules

- 10.1 Importing Module
- 10.2 Math Module
- 10.3 Random Module
- 10.4 Packages
- 10.5 Composition

11. Input-Output

- 11.1 Printing on Screen
- 11.2 Reading Data From Keyboard
- 11.3 Opening and Closing File
- 11.4 Reading and Writing Files
- 11.5 Functions

11: Input-Output

- 12.1 Exceptions
- 12.2 Exception Handling
- 12.3 Except Clause
- 12.4 Try? Finally Clause
- 12.5 User-Defined Exceptions