



IT Expert
TECHNOLOGY



FULL STACK PYTHON

(COMPLETE COURSE)

NOW YOU CAN CODE

100% PLACEMENT

OVERVIEW

Python is a computer programming language often used to build websites and software, automate tasks, and conduct data analysis. Python is a general-purpose language, meaning it can be used to create a variety of different programs and isn't specialized for any specific problems.

WHAT YOU WILL LEARN

- Build your first program in python.
- Learn about python fundamentals, Python data structure, and working with data in python.
- Become familiar with key python functions, objects, and classes. ☑ Gain career skills in one of the world's most popular programming Languages.

BACK END (PYTHON)

MODULE 1 : INTRODUCTION

- Python Basic
- Introduction to Python
- Namespace And scope
- Input / Output Functions
- Selection
- Functions
- Iterations
- Python keywords
- Python Statements

Module 2 : Input/output

- Newline
- Sep Parameter
- End Parameter
- Taking Input From Console
- Taking Input in Python

MODULE 3 : OPERATORS

- Division Operator
- Difference between
- Operator Function
- Operator Overloading
- Membership Operator
- Python Operators
- Ternary Operators

MODULE 4 : VARIABLES

- Byte objects vs String objects
- Global and Local variables
- Packing & Unpacking arguments
- Print single and multiple variables
- Private variables
- Swap to variables
- Type conversion

MODULE 5 : DATA TYPES

- Python arrays
- Python dictionary
- Python List
- Python Sets
- Python Tuple

MODULE 6: CONTROL FLOW

- Looping technique
- Break Statement
- Continue Statement
- For loop
- If else

MODULE 7 : PYTHON OOP

- Python Classes & objects
- Class Method vs Static method
- Class or Static Variables
- Constructors in python
- Encapsulation in python
- Inheritance in python
- Polymorphism in Python

MODULE 8: EXCEPTION HADLING

- Built in Exception
- Python try except
- User Defined Exception
- Errors & Exception
- Python Exception Handling

MODULE 9: FILE HANDLING

- File Handling in python
- Creating file
- How to read from a file in Python
- Open a file in python
- Writing to file in python

MODULE 10: PYTHON COLLECTION

- Chain Map in python
- Counters in python
- Default dict in python
- Dequeue in python
- Heap queue in python
- Namedtuple in python

MODULE 11

PYTHON TKINTER GUI FRAMEWORK – FOR DESKTOP BASED APPICATION

- .Overview of Tkinter framework
- Tkinter Button,Canvas
- Entry,Label
- Message box
- CheckBox and Radio Button
- Widgets,grid menu buttons
- Create a basic calculator using the components
- Database connectivity with Tkinter
- CRUD operations using Tkinter

MODULE 12 : NUMPY

- Introduction
- Creating numpy array
- Numpy array manipulation
- Matrix in numpy
- Operations on numpy
- Reshaping numpy array
- Arithmetic Operation on numpy
- Sorting and searching in numpy

MODULE 13 : PANDAS

- Introduction
- Creating objects
- Viewing data
- Manipulating data
- Selection
- Working with text data
- Working with csv & Excel files
- Data analysis using pandas

PYTHON FRAMEWORK

MODULE 14:

DJANGO WITH MYSQL DATABASE

- .Introduction of DBMS and RDBMS
- Connection with Database
- DDL Operations (create ,alter , drop ,truncate/empty)
- DML Operations (insert,update,delete)
- DQL Operations (select)
- Joins with multiple tables
- Order By and Group By

MODULE 15:

DJANGO WITH SQLITE DATABASE

- Establishing connection with database
- DDL Operations (create ,alter , drop, truncate/empty)
- DML Operations (insert,update,delete)
- DQL Operations (select)

MODULE 16:

DJANGO FRAMEWORK – FOR WEB BASED APPLICATION

- Basic of Django Framework and its uses
- MVC and MVT architecture
- Installation and setting up Django
- Syntax and URL mapping
- Rendering HTML pages
- Creating views
- Creating Controllers and pass parameters
- Django Templating Language
- Django Admin and its working with SQLite

MODULE 16:

- CRUD operations with Model Forms
- CRUD operations with HTML forms
- Django Static Files Handling
- File Uploading
- Email Handling in Django

FRONT END

MODULE 17:

WEB PROGRAMMING INTRODUCTION

- Architecture of a website
- Different technologies in making the website
- Web Development Introduction
- Introduction to world wide web
- Protocols of www
- Hypertext links, URL, domain name system , Web server
- Internet , browsers, website,web application webpage, the home page

MODULE 18:

INTRODUCTION TO HTML4 AND HTML5

- What is HTML?
- What is Markup Language?
- HTML Page Structure
- Use of Web Browsers o HTML Editors
- **HTML BASIC**
 - What is Element? and Types of Element
 - Block Elements and Inline Elements
 - What is Attributes? and how to use?
- **HTML LINKS**
- **HTML IMAGES**
- **HTML LISTS**
- **HTML TABLES**
 - Creating Tables
 - Formatting Tables
 - Table Headers and Captions
 - Attributes : rowspan , colspan , border , bgcolor

MODULE 18:

- **HTML FORM AND INPUT**

- Creating Forms (Form Element)
- Form Methods - Get, Post
- Single Line Input -
Textbox, Password, Hiddenbox
- Multiple Line Input - Textarea
- Single Selection - Radio Button, Select
- Multiple Selection - Checkbox, Select with multiple attribute
- File Upload - File

- **HTML IFRAME AND FIELDSET**

- Creating Iframe
- Iframe - Target for a Link
- Creating Fieldset

MODULE 18:

- **HTML 5**

- Introduction of HTML5
- Difference between HTML4 and HTML5
- HTML5 New Semantic (Structural) Elements
- HTML5 New Form Elements
- HTML5 New Input Types
- HTML5 New Input Attributes
- HTML5 New Graphic Elements
- HTML5 New Media Elements

MODULE 19:

INTRODUCTION TO CSS AND CSS3

- **INTRODUCTION OF CSS**

- What is CSS?
- Why use CSS?
- CSS and Markup Languages

MODULE 19:

- **CSS BASIC**

- CSS Syntax
- Types of CSS
- CSS Selectors
- CSS Comments
- StyleSheet Strategies

- **COLOR AND BACKGROUND PROPERTIES**

- Set Text and ForegroundColor
- Set BackgroundColor
- Set BackgroundImage
- Set background-position

- **CSS TEXT PROPERTIES**

- Set Text color
- Set Text Alignment
- Decorating Text
- Set Textcase
- Indenting Paragraphs
- Set Text Direction
- Arrange Letter Space
- Arrange Word Space
- Set Line Hight
- Apply shadow to Text

MODULE 19:

- **CSS FONT PROPERTIES**

- Set size of Fonts
- Apply style to Fonts like bold, italic
- Creating SmallCaps
- Change Fonts using Font Family

- **HTML DIV AND SPAN ELEMENT**

- Create Div
- Arrange Div in specific place
- Create Webpage layout

- **CSS BOX PROPERTIES**

- Margin
- Padding
- Content
- Border

- **CSS FLOAT PROPERTIES**

- **CSS BORDER PROPERTIES**

- **CSS POSITION PROPERTIES**

- Static
- Relative
- Fixed
- Absolute
- Z-index

MODULE 19:

- **CSS LIST PROPERTIES**

- list-style
- list-style-image
- list-style-position
- list-style-type

- **INTRODUCTION TO CSS3**

- What is CSS3?
- Difference between CSS and CSS3

- **CSS3 BACKGROUNDS**

- background-size
- background-origin
- background-clip
- Multiple Background Images

- **CSS3 GRADIENTS**

- Linear Gradient
- Radial Gradient

- **CSS3 GRADIENTS**

- **CSS3 SHADOW**



MODULE 20:

INTRODUCTION TO BOOTSTRAP

- What is BS?
- What is Responsive Web Design?
- Why use BS?
- How to use BS and Syntax?
- **HOW TO CREATE A LAYOUT IN BS**
 - Grid Classes
- **TYPOGRAPHY AND COLORS IN BS**
- **BS TABLES**
 - Bordered Table
 - Striped Table
 - Hover Table
 - Condensed Table
 - Responsive Table
- **NAVIGATION BAR IN BS**
 - Inverted NavigationBar
 - Fixed NavigationBar
 - Navigation Bar with Dropdown
 - Right-aligned NavigationBar
 - Collapsing the NavigationBar



MODULE 20:

- **FORM IN BS**

- Vertical Form
- Horizontal Form
- Inline Form

- **BUTTONS IN BS**

- ButtonStyles
- ButtonSizes
- Block LevelButtons
- Active/DisabledButtons

- **IMAGES IN BS**

- Rounded Corners Image
- Circle Image
- Thumbnail Image
- Responsive Image



MODULE 21:

INTRODUCTION TO JAVASCRIPT

- What is Javascript?
- Javascript and Markup Languages
- Javascript Syntax
- **JAVASCRIPT OUTPUT**
 - window.alert
 - document.write
 - console.log
 - innerHTML
- **STATEMENTS AND COMMENTS**
- **VARIABLES**
- **JAVASCRIPT ARRAYS**
- **JAVASCRIPT OBJECTS**
 - Object Syntax
 - How to use Object values
- **DATATYPES**
 - number
 - string
 - boolean
 - object



MODULE 21:

- undefined
- null
- function
- **OPERATORS**
 - Arithmetic Operators
 - Assignment Operators
 - String Operators
 - Comparison Operators
 - Logical Operators
 - Type Operators
- **FUNCTIONS**
 - What is function?
 - Why use function?
 - function Syntax
 - Types of fuction
 - function invocation
- **CONDITIONAL STATEMENTS AND LOOPS**
 - Conditional Statements
 - Looping Statements



MODULE 21:

- **JAVASCRIPT DATES**
- **HTML EVENTS**
 - Window Events
 - FormEvents
 - KeyboardEvents
 - MouseEvents
- **JAVASCRIPT VALIDATION**

MODULE 22:

- **PYTHON POJECTS**



Our Successful Placement

 Sonali 9.2 LPA Onscript	 Gauri 8.5 LPA Eclerx	 Ganesh 8.5 LPA Intellect	 Shubham 8 LPA Mits-Hdfc Ergo	 Swati 8 LPA Sagitech Solutions	 Akshay 8 LPA Sagitech Solution	 Akshay 8.5 LPA Sagitech Solution
 Kushal 7.5 LPA Eclerx	 Sanket 7.5 LPA Spar Solutions	 Yashvanth 7 LPA Acidaes Solutions	 Vallabh 7 LPA Neosoft	 Aman 7.4 LPA Riya Travel	 Ajay 6.8 LPA Semantic	 Sudhir 6.5 LPA Riya Travel
 Ganesh 6.6 LPA Six-Sigma NSDF	 Ajit 6.5 LPA Eclerx	 Ajay 6.8 LPA Semantic	 Ganesh 6.5 LPA NCIET	 Jagruti 6 LPA Yardi Software	 Abhijit 5.5 LPA C-Edge Technology	 Nikhil 5 LPA Aloha Technology

Well Done ! You have proved
hard work always pays.

Congratulations!

CONNECT WITH US

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