



Full Stack Python

Development

“Become a Full Stack Python developer”

In Just 100 Hours

(App. 3-4 months)

Blended Approach

Instructor Led-Hands on - 80 Hours

Real Time Project - 20 Hours

Transform your future with our education



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Why take this course?

- Designed for Graduates/Under Graduates or job seekers and professionals who wants to enhance their technical knowledge
- Studying/Studied GRADUATION
- Any Graduate/engineer who is interested in Coding Freshers/Graduates
- Non-programming engineers

In addition Course helps you

- Improve your logical thinking: Improve your problem-solving abilities
- Improve your searching skills: Understand how software applications work
- Find a nice and well-paid job; Improve your self-confidence
- 100% JOB ASSISTANCE after completion of course to make your Profile reach to Hundreds of Recruiters in our network and with the company we have tie up

Features

- Real-Time Projects
- Hand's On Experience
- Mock Tests and Mock Interviews
- Daily Assignments and Seminars



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Python

30 Hours



Basic Python (8 hrs)

- Python Introduction
- Key features advantages
- Installation keywords
- identifiers/ variables
- Data types classification
- Individual - int, float, complex, boolean
- Typecasting
- Collections - Strings & methods
- Lists & methods
- Tuples & methods
- Sets & methods
- Dictionaries & methods
- Arithmetic operators Relational

Conditional statements (2 hrs)

- if
- if - else
- elif
- nested if

Looping statements (4 hrs)

- while loop 2 hrs
- Loop control statements
- for loop 2 hrs
- Else block for loops

Functions (2 hrs)

- Types of functions
- Syntax and calling a function
- return statement
- Arguments
- function Annotations
- Default parameters

Variable scopes (1 hr)

- Global
- Local
- non-local

Operators (1 hr)

- Arithmetic operators
- Relational operator
- Logical operator
- Bitwise operator
- Assignment operator
- Identity Operator
- Membership operator



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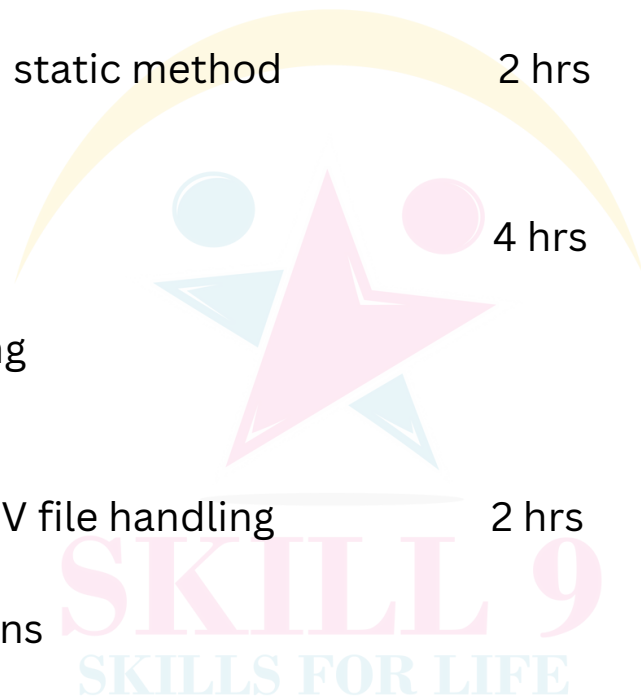
Recursion (2 hrs)

- Package architecture
- Decorators

Parameterised decorators (1 hr)

Core Python 9 Hours

- Object Oriented Programming -
- Class & object Variables & methods 1 hr
- `__dict__` & `__init__`
- Class method and static method 2 hrs
- Inheritance
- Encapsulation
- Abstraction
- Polymorphism
- Exception handling
- Comprehensions
- Generators
- File handling & CSV file handling 2 hrs
- Modules
- Regular Expressions
- Random
- Json
- pickle



Subject Evaluation



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HTML

10 Hours



HTML Basics (1 hr)

- Introduction to HTML
- Web Architecture
- Document Structure

Setting Up Your Environment (1 hr)

- Visual Studio Code Installation and Extensions

Essential HTML Components (2 hrs)

- HTML Tags
- HTML Comments
- HTML Elements
- Self-Closing Tags
- Text Elements
- Text Formatting

Creating Forms and Lists (2 hrs)

- HTML Forms
- Lists in HTML

Working with Media and Graphics (1 hr)

- Images and Attributes
- Video and Audio Integration
- Scalable Vector Graphics (SVG)

Layout and Document Structure (1 hr)

- Inline vs. Block Elements
- HTML Tables
- Semantic HTML
- Embedding Content with iFrames

Special HTML Features (1 hr)

- Marquee Tag
- The Element

Practical Application (1 hr)

- Resume Project
- Form Validation

Subject Evaluation



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Basics of CSS (1 hr)

- Introduction to CSS

Working with CSS Styles (2 hrs)

- Inline, Internal, and External CSS
- Managing Color Properties in CSS
- Text Styling and Font Management

Working with CSS Styles (2 hrs)

- CSS Selectors and the Concept of Inheritance
- Class and ID Selectors in CSS

Advanced CSS Styling (2 hrs)

- Positioning Elements in CSS
- Mastering Colors and Backgrounds, including Gradients
- Transitions and Animations in CSS
- Transformations in CSS
- Creating Box Shadows with CSS

Layout and Design Techniques (2 hrs)

- The CSS Box Model
- CSS Sizing Units
- Styling Images and Backgrounds
- Advanced Layouts with Flexbox and Grid



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Javascript

5 Hours



Introduction to JavaScript (1 hr)

- What is JavaScript?
- JavaScript in Web Development

JavaScript Statements & variables

- Expressions and Statements
- Semicolons in JavaScript

JavaScript Syntax

- Variables and Constants
- Comments
- Case Sensitivity

let, const, and var

- Using let
- Constants with const
- Legacy var Keyword

Arithmetic in JavaScript

- Mathematical Operators
- Operator Precedence

Data Types in JavaScript

- Primitive Data Types
- Objects and Reference Types

JavaScript Functions (1 hr)

- Declaring Functions
- Function Parameters and Arguments
- Return Statements

JavaScript Objects (1 hr)

- Creating Objects
- Object Properties and Methods
- Object Constructors

JavaScript Events & Array Methods & Comparison

- Event Listeners
- Handling User Interactions
- Working with Arrays
- Array Iteration Methods
- Equality and Inequality
- Strict vs. Loose Comparison



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Loops & Hoisting in JavaScript (1 hr)

- for, while, and do...while
Loops
- Loop Control Statements
- Variable and Function
Hoisting

Classes & this Keyword in JavaScript

- ES6 Class Syntax
- Context and Scope
- Using 'this' in Functions

ES6 Features (1 hr)

- Arrow Functions
- Template Literals
- Destructuring

Async/Await

- Handling Asynchronous
Code
- Promises and Async/Await

DOM Methods

- Selecting DOM Elements
- Modifying the DOM

Subject Evaluation



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Introduction (1 hr)

- What Is Database?
- What is Database Management System (DBMS)?
- What is Relational Model ?
- Introduction to RDBMS .
- Brief on E.F CODD .

Datatypes and Constraints (1 hr)

- What are Datatypes ?
- Types and Examples .
- How to use .
- What are Constraints?
- Types and Examples.
- How to use.

Statements in SQL (1 hr)

- Data Definition Language (DDL)
- Data Manipulation Language (DML)
- Transaction Control Language (TCL)
- Data Control Language (DCL)
- Data Query Language (DQL)

Software installation (1 hr)

- Installing and set up of software
- Working on Oracle 10g.

Operators (1 hr)

- Types and Examples

Data Query Language (DQL) (2 hrs)

- Select
- From
- Having
- Where
- Group By
- Order By

Functions in SQL (1 hr)

- Introduction on Pseudo Columns
- ROWID
 - Sum ()
- ROWNUM
 - Avg ()
- Working and Usage



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Sub Query (1 hr)

- Introduction to Sub Query
- Working of Sub Query
- Query Writing and Execution
- Types of Sub Query
 - Single Row Sub Query
 - Multi Row Sub Query
- Nested Sub Query.

Pseudo Columns (1 hr)

- Single Row Functions
- Multi Row Functions
 - Max ()
 - Min ()
 - Count ()

JOINS (3 hrs)

- What Is Join?
- Types of Joins.
- Cartesian Join
- Inner Join
- Outer Join
- Self-Join
- Queries and Examples.

Co- Related Sub Query (1 hr)

- Working and Examples

Data Definition Language (DDL) (2 hrs)

- Create
- Rename
- Alter
- Truncate
- Drop



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Database - 3

3 Hours



Transaction Control Language (TCL) (1 hr)

- Commit
- Save point
- Rollback

Data Control Language (DCL) (1 hr)

- Grant
- Revoke

Normalization (1 hr)

- Introduction to Normalization
- Types of Normal Forms
- Examples.

E R Diagrams

- Introduction to ERD
- Examples.

Subject Evaluation

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SKILLS FOR LIFE



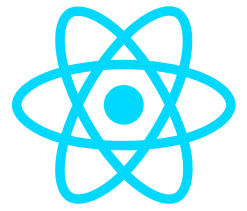
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REACT

7 Hours



Introduction to React (1 hr)

- What is React?
- Why use React for web development?

Setting Up a Development Environment (1 hr)

- Install Node.js and npm (Node Package Manager)
- Create a React application using Create React App

Understanding JSX (JavaScript XML)

- JSX syntax and how it's used in React components.

Components and Props

- Creating functional and class components.
- Passing and using props to customize components

State and Lifecycle (1 hr)

- Managing component state.
- Component lifecycle methods (e.g., componentDidMount, componentDidUpdate, etc.).

Handling Events

- How to handle user interactions in React components.
- Event handling and binding functions.

Props and maps and keys (1 hr)

- Rendering components conditionally based on state or props.
- Rendering lists of data using map and key prop.

Forms and Controlled Components (1 hr)

- Creating forms and handling form input in React.



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State Management with Hooks (1 hr)

- Managing state and side effects using React Hooks

React Routing (1 hr)

- Routing and SPAs
- Setting Up the Router Package
- react-router vs react-router-dom
- Preparing the Project For Routing
- Switching Between Pages, Routing-Related Props
- The "withRouter" HOC & Route Props
- Passing & extracting route/query parameters
- Using Switch to Load a Single Route
- Navigating Programmatically

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