



# PYTHON-ANGULAR FULL STACK TRAINING CURRICULAM

## **Indphoenix Technologies**

Office # 1/981

Densons Building

Edappally.Po

Kochi – 682024

Email: [info@codequery.in](mailto:info@codequery.in)

Phone: +91 7025322200

+91 6238451399

# Python – Angular Full Stack - Syllabus (90 Hrs.)

## Module 1: Introduction To Python

- Short History & Features
- Python Installation
- Python Interpreter
- Python Basic Operators
- Python Variables

## Module 2: Python Data Types

- Declaring & Using Numeric Data Types
- Using String Data Type & String Operations
- Defining List & List Slicing
- Python Tuples
- Dictionary Data Types

## Module 3: Programming Concept

- Conditional Blocks using if, Else & Else if
- While Statements
- While Loop With Else Statement
- For & While Loops
- For Loop With Else

## Module 4: Functiond and Modules

- Define a Function
- Call a Function
- Default Arguments

- Function Arguments
- Lambda Functions
- Recursive Functions
- Creating Modules
- Importing Modules
- Packages

### **Module 5: Python file operation**

- Opening & Closing a File
- Read & Write Functions
- File Methods
- Directories in Python

### **Module 6: Python Exception Handling**

- Handling Exceptions
- Exception With Arguments
- Raising an Exception
- User Defined Exception

### **Module 7: OOP concept with Python**

- Concept of Class, Object & Instances
- Constructor, Class Attributes & Destructors
- Inheritance, Overlapping & Overloading Operators
- Encapsulation & Data Hiding
- Method Over Riding & Polymorphism

### **Module 8: Python Regular Expression**

- Regular Expression Patterns
- Regular Expression Modifiers

- Powerful Pattern Match Function
- Replace & Search

## **Module 9: Python Database Interaction**

- Database Connection Using Python
- Create a Database
- Creating DB Table
- Insert & Update Records
- Retrieve & Delete Records
- Disconnecting from a Database.

## **Module 9: Introduction to Django**

- What is Django
- Django Features
- MVC- Model View Template Advanced Education Services
- Install & Setup Django
- Files in Django
- Database Connections

## **Module 10: URL patterns and Views**

- Django Admin
- URL Pattern Advanced Education Services
- Generic Views
- Session, Cookie & Templates
- Form Classes
- Validation
- Authentication
- CURD Operations

# Angular Js

## Module 1: Introduction to Angular Js

- Conceptual Overview
- MVC-The Angular JS Way
- Features of Angular JS
- AngularJS Bootstrap Process

## Module 2: Angular Js Modules and components

- Module in Angular Js
- Module Loading & Dependencies
- Component in Angular Js
- Component Styles & Selectors
- Nesting Component
- Component Template

## Module 3: Angular Js Expressions & Filters

- Number & String Expressions
- Object Binding & Expressions
- Built – in Filters
- Purpose of Angular Filters
- Creating Custom filters

## Module 4: Angular Js Data Binding & Directives

- Data Binding in Angular js
- Combine Forms with Data Binding
- Two-way Data Binding

- Scope of Directives
- Creating Custom Directives
- Directive Properties

## **Module 5: Angular Js Forms & Pipes**

- Working with Angular Forms, Model Binding
- Form Events
- Input Validations
- Custom Validations
- Reactive Form
- Relative Form
- Chaining Multiple Pipe in Angular
- Filer Pipes

## **Module 5: Routing & HTTP Request**

- Route Configuration
- Redirection Routes
- Route Guards
- Fetch Routing Parameter
- Passing & Retrieving Parameters
- HTTP Request Send
- Request Headers
- Handle get & Post Request

## **Module 11: Live Project Implementation**