



# PYTHON-DJANGO 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 - Django Development- 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
- CRUD Operations

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