



Python Developer Syllabus

Python Basic

Python Introduction

Python installation and Environment variables

Input and output function

Data Types (int, list, string, dictionary, tuple, set etc., Typecasting)

Operators in python

Flow Control (If, for, while, break, continue, comprehension techniques)

Functions (Builtin functions, UDF, Special Functions: lambda, map etc)

Modules, packages (installation, import and use, examples: os, shutil etc)

Python Advance

Generator, iterator, decorator, closure

File Handling with Python (text file, xls file, JSON file, Yaml file)

Regular expressions

Object Oriented Python(Inheritance and Polymorphism Overriding Methods)

Exception Handling in python

Logging in python

Database interaction with Python (mysql, sqlite3, ORM-sqlalchemy)

Testing & Debugging Framework (pytest, pdb)

Multithreading in python

Pycharm Editor

Create project

Set environment

Installation of module and plugging

Debug in pycharm

PEP 8 standard in pycharm

Flask

Flask Introduction

Flask App

Flask Routing

Flask-SQLAlchemy

Flask jinja2 template

Create API in flask(requests module)

CRUD operation in Flask

Django

Django Introduction

Creating project in Django

Django URLs

Django Forms

Django Models

Django Template

Django Admin Interface

Django CRUD Operations

API in Django (Django REST Framework)

Profile Requirement along with above topics:

HTML, CSS, Javascript

Git (add, commit, merge, rebase, push, pull etc)

Jenkins (pipelining)

Server (any one WSGI, Apache, Nginx)

Postman

Database(any one MySQL, Oracle, MangoDB)

Project Management tool (Ejira)

Project Methodology (Agile, Waterfall)

Unix Basic Commands

Project and Project mapping with technical terms