



# Python Syllabus

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## ❖ 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)*

## ❖ Python Advance

- *File Handling with Python (text file, JSON file)*
- *Regular expressions*
- *Object Oriented Python(Introduction)*
- *Exception Handling in python*
- *Testing & Debugging Framework (pytest, pdb)*

## ❖ Pycharm Editor

- *Create project*
- *Set environment*
- *Installation of module and plugging*
- *Debug in Pycharm*
- *PEP 8 standard in Pycharm*

## ❖ Python Selenium

- *Selenium Introduction*  
*Setup Selenium IDE*
- *Working with element locator*
- *X-path create and locate*
- *Write test case*
- *Work on textbox, radio button, dropdown list etc*
- *Waits in webdriver*
- *Keyboard and mouse operations*
- *Take Screenshot at Runtime*
- *MultiWindow Handling*
- *Allure Introduction & Setup*

- *Generate reports*

#### ❖ **Robot Framework**

- *Introduction to Robot Framework*
- *File structure in robot framework*
- *Write own keywords*
- *Locate elements*
- *Selenium Library*
- *Request library*
- *Write test cases*

#### ❖ **Postman**

- *Test API in postman (REST: get, post, put delete etc.)*
- *Add collection*
- *Add runner*

#### ❖ **Profile Requirement along with above topics:**

- *HTML, CSS*
- *Git (add, commit, merge, rebase, push, pull etc)*
- *Jenkins (pipelining)*
- *Project Management tool (Ejira)*
- *Project Methodology (Agile, Waterfall)*
- *Project and Project mapping with technical terms*