



Course Summary:

This comprehensive course provides a strong foundation in Python programming, specifically tailored for data science and development roles. It covers core Python concepts, essential data manipulation libraries, data visualization techniques, database connectivity, and API interaction, preparing learners for industry-recognized certifications.

Python Programming Course Syllabus

PCAP™ – Certified Associate in Python Programming
IBM(CC) - Certified DEVELOPER Associate certification
Codeshunger - Certified Python Developer

- 1.) Python
 - python environment setup
 - python variable
 - python Decision Making (if,elif and else statements)
 - python_loop
 - python list
 - python Tuples
 - python SET
 - python String
 - python Dictionary
 - python Functions
 - python File operation Text
 - python File operation CSV
 - python File operation JSON
 - python lamda
 - python map
 - python filter

- 2.) Numpy
 - numpy introduction
 - numpy Array (1D and 2'D) creation and operation
 - numpy Array slicing and indexing
 - numpy shape and reshape
 - numpy array itreating
 - numpy array join
 - numpy array split and search
 - numpy array sort and Filter



3.) Pandas

Introduction to Pandas

Pandas Series

Pandas DataFrames

pandas Read csv and Excel File

pandas Missing Data

pandas Groupby

pandas Merging, Joining, and Concatenating

pandas Operations part1

pandas Operations part2

pandas user define functinspandas Data Input and Output

4.) Python graph and data visualization

Matplotlib and seaborn Introduction

Matplot Count plot

Matplot Bar plot

Matplot Histogram

Matplot Density plot

Matplot Box and Whisker plot

Matplot Scatter plot

Matplot Line Plot

5.) Python With DataBase connectivity

Connect Python With MYSQL

PYMYSQL SELECT

PYMYSQL INSERT

PYMYSQL UPDATE

PYMYSQL DELETE

6.) PYTHON API Getting DAta