



PYTHON FOR ALL

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COURSE CONTENT

LEARNING PLAN

SI.NO	TOPIC	LEARNING TIME	NO.OF QUIZES	NO.OF ASSIGNMENTS	TOTAL TIME
1	Significance of Python	01:00	Na	Na	01:00
2	Python Programming	08:00	300	100	08:00
3	Data Base Programming SQL	04:00	20	20	04:00
4	No-SQL MongoDB	02:00	10	10	02:00
5	Front End Technology	02:00	20	20	02:00
6	Fire Base Cloud	01:00	10	10	01:00
7	Selenium Intro	02:00	10	10	02:00
8	Web Elements Locators	08:00	00	00	08:00
9	Pytest Framework	04:00	30	00	04:00
10	Parametrize Testing	02:00	20	20	02:00
11	Decorators	02:00	20	20	02:00
12	Data Driven Testing	04:00	20	20	04:00
13	API Testing	04:00	20	20	04:00
14	Projects	08:00	NA	NA	08:00
15	Data Science	10:00	100	100	10:00
15	Machine Learning	10:00	100	100	10:00
				TOTAL	70:00

COURSE OUTCOME

- To learn core & advance python programming
- To learn python for front end design
- To learn python for backend design
- To learn python for cloud design
- To learn python for automation testing with selenium tool
- To learn python for API Testing
- To learn python for data science for data science
- To learn python for machine learning

TABLE OF CONTENT

1. SIGNIFICANCE OF PYTHON

- Introduction to Python
- Features of python
- Applications of python
- Skills for real time IT industry

2. PYTHON PROGRAMMING

- Python Editors/Tools
- IDLE
- COLAB/JUPYTER Tool
- Pycharm Tool
- Tokens of Python
- Control Structures
- Tkinter Module
- Functions
- Data Structures
- Files Concept
- Regular Expressions
- Object Oriented Programming
- Advanced Data Structures in Python

3. DATA BASE PROGRAMMING

- Mysql Back End
- Installation of Mysql
- DDL operations
- DML operations
- Front End as TKinter & Mysql as backend
- MongoDb Back End
- Installation of MongoDb
- CRUD Operations on MongoDb
- JSON Data Representation
- Front End as Tkinter and Back end as MongoDB

4. FRONT END TECHNOLOGY

- HTML
- HTML Tags
- HTML Tags Attributes
- HTML as Front End & Mysql as Back End project
- HTML as Front End & MongoDb as Back End project

HTML as Front End & Fire Base Cloud as Back-End project

5. FIRE-BASE GOOGLE CLOUD

- Creation of console account in Fire Base cloud
- Establish connection between front end HTML & Firebase
- GUI data supplement from front end to store data in firebase
- Firebase data cloud in the form of JSON Format

6. DJANGO FRAMEWORK

- Introduction about Django framework
- Django Installation over python platform
- Django as web deployment framework
- Configuration Settings
- MVT Model as Architecture

7. 3-TIER ARCHITECTURE PROJECTS

- Project with Mysql as Backend on Django Framework
- Project with MongoDb as Backend on Django Framework

8. DATA SCIENCE FUNDAMENTALS

- AI vs DS vs DW vs DM vs ML
- Classification of data for data analytics
- Data vs Information vs Knowledge vs Wisdom
- Characteristics of data volume, velocity, variety
- OLAP Vs OLTP
- Demonstration about N-Dimensional data representation
- Types of Analysis in Data Science domain

9. NUMPY MODULE

- Importing and operations of numpy
- Index, slice, reshape numpy arrays
- Numpy array broadcasting
- Vector Arithmetic Operations
- Matrix Arithmetic Operations
- Types of Matrices
- Matrix Operations
- Tensor Arithmetic operations

10.PANDAS MODULE

- Importing pandas module
- Pandas Series structure
- Pandas Dataframe structure
- Possible operations on Dataframe
- Aggregating Data

11. STATISTICS FOR DATA SCIENCE

- Introduction to Statistics
- Types of data
- Terminologies of statistics
- Descriptive Statistics
- Inferential Statistics
- Application of Statistics in Machine Learning

12.MATPLOTLIB MODULE/Power BI

- Importing matplotlib
- Types of plots
- Line Plot
- Scatter Plot
- Bar Plot
- Histogram
- Pie Chart

13. MACHINE LEARNING ALGORITHMS

- Fundamentals of ML Techniques
- Classification of ML Techniques
- Supervised Learning Algorithms
 - **o Linear Regression Algorithm**
 - o Multilinear Regression Algorithm
 - **O Logistic Regression Algorithm**
 - **Output** Openity Openi
 - o Naïve Bayes Algorithm

U GET FROM THE COURSE:

- International Certificate as Internship from ROTOMAKER MNC Company
- Course Completion
- Placement Assistance and Assurance