

#Learn_from_Home

Python for Data Analytics

Course Code : LFH/DAML/.....

Duration: 10 - 15 days

Course Syllabus

INTRODUCTION

This industry oriented course is developed by both the Software development division & Training division of **ipsr solutions limited**. IPSR is a **public limited IT company** with 20 years of expertise in [Software product development](#), [Training services](#), [Placement services](#) & [Digital Marketing services](#). During the past 2 decades, IPSR has trained candidates from **50+ countries** and helped **40000+ candidates** to build their IT career. Our IT services division is a pioneer in development of **Academic solution products**, incorporating cutting edge technologies like Artificial Intelligence, Data Analytics and Machine learning. Live industry experts from this IT division contribute a major role in delivering this course. Our placement division is having **1500+ placement tie-up companies** and we are conducting [recruitment on all days](#).

The Course curriculum is designed and developed by a team of expertise panel lead by following academicians

- ❑ **Dr. Mendus Jacob, M.Sc., M.Phil., Ph.D., MloD**
 - ❑ M.D & C.E.O - IPSR & Valin Technologies, U.K.
 - ❑ Director - MCA, Marian College, Kuttikkanam (Autonomous)
 - ❑ Former Director of School of Applicable Mathematics, M.G. University.
 - ❑ Academician and Entrepreneur with 30+ years experience
- ❑ **Dr. Sunil Job K.A, M.Sc, M.Ed, M.Phil, Ph.D., RHCE**
 - ❑ Chief of Academic Solutions - IPSR
 - ❑ Former college Principal and a Specialist in Data Analytics & Machine Learning
 - ❑ Blogger and a Resource person for National conferences
 - ❑ Academician with 25+ years experience



What you'll learn

✓ Python Language Basics, Sequences, Functions, OOPS, RegEx, Database

Programming using Python and MySql

✓ Python Packages for Basic Data Analytics - numpy, pandas, matplotlib, seaborn

Description

This course covers the Python Language basics and upto database programming using MySql. It even covers important data analytics packages as numpy, pandas, matplotlib and seaborn

Course Outcome (CO)

While successfully completing this course, the learner will be able to:

- Do programming using Python.
- Do data analysis using Python packages.

What does this course give you?

Python skills needed for basic Data Analytics.



Prerequisite : Data Analysis using Excel and Tableau

Course content

Python Basics

Language Structure

Control & Loop Constructs

Sequences

Functions

OOPS

RegEx

Database programming with MySql

Python Data Analytics packages

Numpy

- Ndimensional array
- Datatypes
- Random numbers
- Matrix operations

Pandas

- Series,Dataframe
- Importing csv, Exporting csv
- Groupby



- Describe,Info
- Iloc,loc
- Filtering
- Slicing

Matplotlib

- Line plot
- Scatter plot
- Histogram
- Box plot

· Seaborn

- Heatmap

Next Recommended Module: Advanced Data Analytics using Python

Recommended Learning Path

1. Basic Data Analysis -----> Advanced Data Analysis(zero coding)
2. Basic Data Analysis -----> Advanced Data Analysis-----> Python for Data Analytics
3. Basic Data Analysis -----> Python for Data Analytics-----> Advanced Data Analytics using Python
4. Basic Data Analysis-----> Python for Data Analytics----->Advanced Data Analytics using Python ----> Machine Learning
5. Basic Data Analysis-----> Python for Data Analytics----->Advanced Data Analytics using Python ----> Machine Learning -----> AI with Deep Learning



Contact Us

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We have branches at Kochi, Thiruvananthapuram, Calicut and Bengaluru.