

Python For Engineers and its Practical Applications

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Overview

Python programming is a No. 1 programming language of 2021 in the present Industry. Python is favoured in most of the top multi-national companies because, it's easy to learn, due to its simple syntax, a large library of standards and toolkits, and integration with other popular programming languages. Python programming is a mandatory skill for the all engineering streams.

To build your resume suits to Industry 4.0, Python programming plays a vital role as it links to Machine Learning and Data Analysis requires for any companies for building top notch career for you.

The 4 weeks online internship and certification program involve you to build real-world applications using the Python programming language. The course content is designed in such a way that even the participants with zero knowledge of programming can learn easily to meet the industry requirements. Hands on sessions for each basic topics are covered. Exclusive interactive sessions are provided to extend the learning the basics and update your skills as per the current situation.

Learning from this course provides you an opportunity to update your skill and take up the projects of your choice in your respective domains. The certificate is issued from reputed company.

Course Agenda

Week 1 : Introduction to Python

- **Importance of Python for Engineers**
- **Installing of Python**
 - IDLE
 - Anaconda
 - Pip
- **Jupyter Notebook**
 - Overview
 - Create Folder
 - Save

- **Programming Methodology**
 - Methodology
 - Variables
 - First Program
 - Execution
- **Data Types**
 - Integer
 - Float
 - Strings
 - Boolean
 - Hands on
- **Type Conversions**
 - To String
 - To Float
 - To Integer
 - Hands on
- **Input Statements**
 - Program
 - Execution
- **Basic Programs**
 - Program
 - Execution
- **If, Else, Elif Statements**
 - Syntax
 - Program
 - Execution
 - Hands on
- **While loop, Break, Continue Statements**
 - Syntax
 - Program
 - Execution
 - Hands on
- **Functions and For Loop**
 - Syntax
 - Program
 - Execution
 - Hands on
- **List**
 - Syntax
 - Program
 - Execution
 - Hands on
- **Slicing and Comprehensions**
 - Syntax
 - Program
 - Execution
 - Hands on
- **Dictionaries**

3 Weeks Internship Program on Python for Engineers and its Practical Applications

- Syntax
- Program
- Execution
- Hands on
- **Tuples and Exceptions**
 - Syntax
 - Program
 - Execution
 - Hands on

Week 2: Numpy, Pandas and Matplotlib

- **Working with files**
 - Opening and Reading Files
 - Deleting and Renaming Files
 - Hands on
- **Numpy**
 - Definition
 - Examples
 - Hands on
- **Pandas**
 - Definition
 - Examples
 - Hands on
- **Matplotlib**
 - Definition
 - Examples
 - Hands on

Week 4: Domain Specific

- **Civil Engineering (2 Projects)**
- **Computer Science and Engineering (2 Projects)**
- **Electronics and Communication Engineering (2 Projects)**
- **Mechanical Engineering (2 Projects)**

Course Duration

Program is conducted for 3 Weeks of 5 hours each week. The program session is conducted on online mode.

Days	Time
Monday to Friday	0630 PM to 0730 PM

Note: Recording sessions are shared to mail for missed lectures

Course Fees

Rs. ~~4999/-~~ (Original Price)

Offer Price is **Rs. 2000.00 ONLY**

3 Weeks Internship Program on Python for Engineers and its Practical Applications

100% of the fee to be paid during registration.

Note: No additional tax will be applied as the company does not come under GST.

Target Audience

- Students (UG/PG/PhD)
- Faculty / Teachers

Scheduling and Link

Schedule Date : --.10.2022 (Tentative)
Tool : Zoom
Link : Shared for registered and paid candidates

Trainer Background

Trainer is an academician and shown deep interest in Python Programming exclusive for Mechanical, Civil, Aerospace engineering streams, Machine Learning and My SQL related to sub field of Artificial Intelligence. He holds Ph.D in virtual reality with over a dozen publications in International Journals, International and National Conferences. He has given Key note speeches on Improve Your Handwriting to Achieve Success in various avenues. He has been successfully conducting Hands Corporate/Academic (Student & Faculty Development) training and workshops. His passion is to share knowledge and mentor dedicated students, parents and professionals in field of Handwriting Psychology.

Contact Details