



Python Programming

COURSE & CONTENT

Program Structure

Online Internship Program

EISYSTEMS SERVICES

FF-110, Express Greens Plaza, Sector 1
Vaishali, Delhi NCR – Uttar Pradesh
India – 201010

W: www.eisystems.in | **E:** info@eisystems.in | **P:** (+91) 98116-04130

Prerequisites of this program

Participants from CSE/IT/MCA/BCA/BSc IT/ECE background are eligible to join this program, even if any person who is planning to sit in placement drive(s) or planning to switch in Machine Learning / Data Science domain then this program will be very much helpful.

Technical Requirements

We expect participant(s) to have

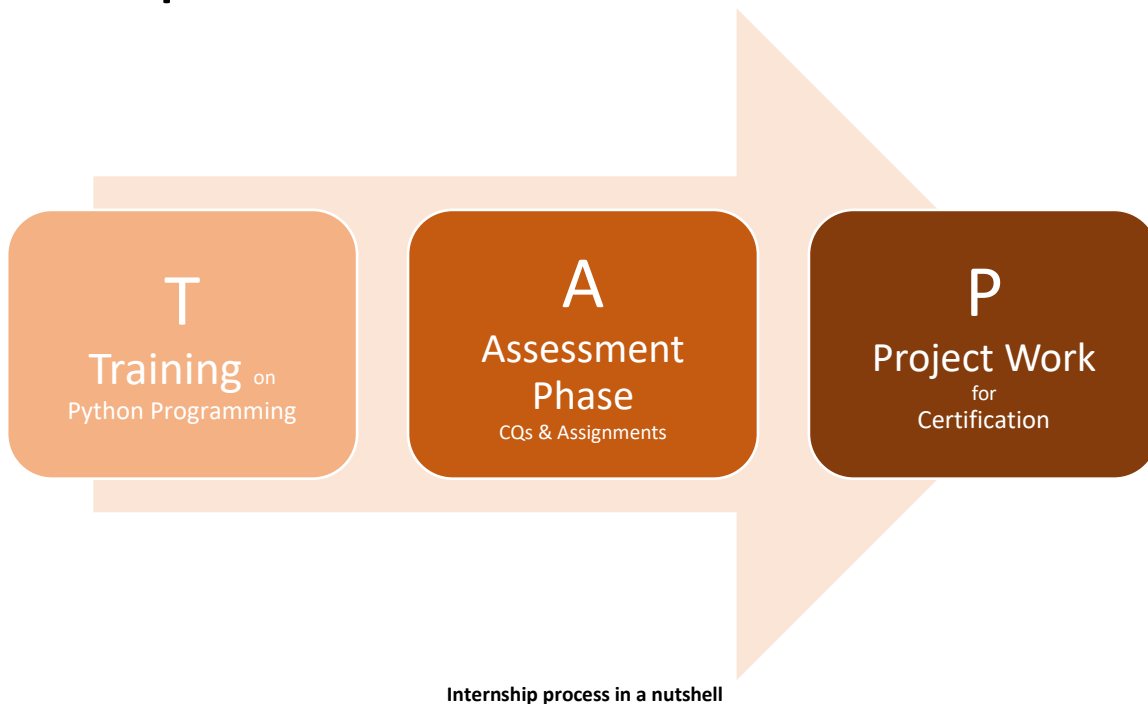
1. A laptop with Microsoft Windows configuration with minimum 8GB RAM.
2. Laptop Charger/ Adapter for charging purpose.
3. Internet Connectivity.
4. Smartphone (4G/5G)

Internship Deliverables

Every participant will get all under mentioned deliverables

1. Offer Letter
2. 30 hours training by specialized trainer in self paced mode
3. Frequent Doubt Sessions live by trainer
4. Study Material / Classroom Material
5. LMS Access
6. Certificate of Internship
7. Guidance for Entrepreneurship in chosen field or employment support.
8. Chance to assist our trainer in our workshop(s) at IISc, IITs, NITs etc.

Internship Process in a nutshell



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Course & Content

All of the sessions will be practical oriented, kindly look on the syllabus which we are going to cover during training days.

Python Programming Module

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| <p>Session 1 Introduction Why do we need Python? How to Install Python? Execution steps Interactive Shell User Interface or IDE Creating Your First Python Program</p> <p>Session 2 Memory Management and Garbage Collection Object Creation and Deletion Object Properties Data Types and Operations Numbers String Operations</p> <p>Session 3 List Tuple Dictionary Other Core Types</p> <p>Session 4 Statements and Syntax Assignments, Expressions and prints If tests and Syntax Rules While and For Loops</p> <p>Session 5 File Operations Opening a file Using Files Other File tools Python Check If File or Directory Exists Python COPY and PASTE File using shutil.copy() Python Rename File and Directory using os.rename() Python ZIP file with Example</p> | <p>Session 6 Functions Function Definition and Call Function Scope Function Arguments</p> <p>Session 7 Modules and Packages Module Creations and Usage Types of package in Python Package creation Importing packages</p> <p>Session 8 Classes Classes and Instances Classes method calls Class methods Instance methods Static methods</p> <p>Session 9 OOPs concept Abstraction Encapsulation Polymorphism Types of Polymorphism Inheritance Types of inheritance</p> <p>Session 10 Exception Handling Default Exception Handler Except Exceptions Raise an exception User defined exception</p> <p>Session 11 Accessing Internet Data with Python Manipulating XML with Python</p> |
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|--|--|
| <p>Activities & Project Discussion</p> <p><u>Activities</u></p> <p>Installing different libraries of Python</p> | <p><u>Project Discussion</u></p> <p>Random Password Generator</p> <p>QR Code Generator</p> <p>Alphabetical Letter Pattern creation</p> <p>Sending Email or Whatsapp messages via Python code</p> <p>Speech Recognition</p> <p>Quiz Game</p> <p>File Handling Project</p> |
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DISCUSSION ON FINAL PROJECT

Final project & report of the same will be made by participant(s) only.

Tools you may explore in future



Note

Eisystems Services reserves complete right to alter/modify above mentioned course by deleting or adding sessions in it at the time of delivery of training and attendee will not be having any issue in it as this modification/alteration can be done without any prior notification to attendee/student.

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