



THE ANNUAL TECHNO-MANAGEMENT FEST, IIT (BHU) VARANASI

# TECHNEX'19

Internship & Training Program



## Python Programming

2 Weeks / 32 hours

Job oriented exhaustive program

## Winter Internship & Training Program

Bengaluru – Bhopal – Bhubaneswar – Lucknow

Powered by



**EISYSTEMS SERVICES**

FF-113, Express Greens Plaza, Sector 1, Vaishali, Ghaziabad  
Delhi NCR – 201010 - India

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## Internship & Training Program

### About EISystems

EISystems Services is a leading Indian technology identity with operations in 16 states and union territories of India. EISystems (We call it EISys) offers computer forensics, automobiles, robotics and socialmedia related solutions for enterprises and student community. Our retail domain "Robokwik" have been in among top self learning products provider brands in India. We have trained about 70000 students and impacted around 2 lakhs students through our various outreach initiatives since our founding.

### Our Clientele

Some of the colleges where we had already felt our presence are given below:-

Indian Institute of Science, Bangalore  
Indian Institute of Technology, Bombay  
Indian Institute of Technology, Delhi  
Indian Institute of Technology, Madras  
Indian Institute of Technology, Kanpur  
Indian Institute of Technology, Roorkee  
Indian Institute of Technology, Guwahati  
Indian Institute of Technology (Banaras Hindu University), Varanasi  
Indian Institute of Technology, Indore  
Indian Institute of Technology, Jodhpur  
Indian Institute of Technology, Hyderabad  
National Institute of Technology, Tiruchirappalli  
National Institute of Technology, Warangal  
National Institute of Technology, Calicut  
National Institute of Technology, Patna  
National Institute of Technology, Jalandhar  
National Institute of Technology, Jaipur  
National Institute of Technology, Durgapur  
National Institute of Technology, Surat  
National Institute of Technology, Allahabad  
Indian Institute of Information Technology, Allahabad  
ABV- Indian Institute of Information Technology & Management, Gwalior  
PDP- Indian Institute of Information Technology & Management, Jabalpur  
College of Engineering Guindy, Anna University, Chennai  
PSG College of Technology, Coimbatore  
JNTUH College of Engineering, Hyderabad  
SRM University

and more than 100 engineering colleges across India.

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## Prerequisites

Participants from 1<sup>st</sup> year/ 2<sup>nd</sup> year / 3<sup>rd</sup> year / 4<sup>th</sup> year of CSE/IT/MCA/BCA/BSc IT/ECE branch will get more benefited after joining this program.

## What to bring during training program?

Here's the checklist

1. A laptop with Microsoft Windows configuration.
2. Laptop Charger/ Adapter for charging purpose.
3. USB Mouse for designing purpose.

## Post Training Deliverables

Every participant will get all under mentioned deliverables

1. Certificate of Internship from Eisystems Services & Technex IIT BHU Varanasi
2. Software Package with booklet for Laptop/Tab.
3. Printed Study Material Booklet
4. Notepad & Stylish Storage Folder
5. Access ID Card

## Fees & Discounts

There are multiple type of discount(s) available as mentioned below:-

### Category 1: Group Discount (2 to 7 Members Group)

Installments	Amount
First Installment	Rs. 1000 per participant only
Second Installment	Rs. 4300 per participant only
<b>Total</b>	<b>Rs. 5300 per participant only</b>

### Category 2: Single / Individual Entry

Installments	Amount
First Installment	Rs. 1000 per participant only
Second Installment	Rs. 4500 per participant only
<b>Total</b>	<b>Rs. 5500 per participant only</b>

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## How to pay Confirmation fees?

The payment of registration fees can be made using undergiven modes:-

### Online Mode

Credit Cards / Debit Cards  
Net banking  
Ola Money  
PayTM

To pay fees, kindly check Payment link on Email / Website.

### Offline Modes

Direct Bank Deposit in Kotak Mahindra Bank

Step 1: Go to any Kotak Mahindra Bank near you.

Step 2: Fill the Pay-In-Slip with required amount and undergiven account number

Step 3: Deposit the amount in bank account, the details of it are given below:-

Bank Name	:Kotak Mahindra Bank
Account Name	:EISYSTEMS SERVICES
Account Number	:2011117760
IFSC Code	:KKBK0000149
Type	:Current
Branch	:Mathura

Step 4: Take the countersigned Pay-In-Slip from bank counter with valid seal and transaction number and write the name of participants on the back side of it.

Step 5: Scan both sides of Pay-In-Slip and send it to [internship.eisystems@gmail.com](mailto:internship.eisystems@gmail.com) along with information of each attendee on that payment slip like Name, Phone Number, Email Address, Course Name, Center, City.

Step 6: Keep this payment slip with you and we will collect it at the time of registration otherwise we may not consider your registration.

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## Internship & Training Program

### Course & Content

All of the sessions will be practical oriented, so it will be really great if participant(s) can look on the syllabus which we are going to cover during training days.

#### Session 1

- Introduction
- Why do we need Python?
- Program structure
- How to Install Python
- Execution steps
- Interactive Shell
- Executable or script files
- User Interface or IDE
- Creating Your First Python Program

#### Session 2

- Memory management and Garbage collections
- Object creation and deletion
- Object properties
- Data Types and Operations
- Numbers
- Strings

#### Session 3

- List
- Tuple
- Dictionary
- Other Core Types
- Statements

#### Session 4

- Statements and Syntax
- Assignments, Expressions and prints
- If tests and Syntax Rules
- While and For Loops
- Iterations and Comprehensions

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### Session 5

- File Operations
- Opening a file
- Using Files
- Other File tools
- Functions
- Function definition and call
- Function Scope
- Arguments
- Function Objects

### Session 6

- Modules and Packages
- Module Creations and Usage
- Module Search Path
- Module Vs. Script
- Package Creation and Importing

### Session 7

- Classes
- Classes and instances
- Classes method calls
- Inheritance and Compositions
- Static and Class Methods
- Bound and Unbound Methods
- Operator Overloading
- Polymorphism

### Session 8

- Exception Handling
- Default Exception Handler
- Catching Exceptions
- Raise an exception
- User defined exception

### Session 9

- Python Regular Expressions
- Date, time and datetime classes in Python
- Calendar in Python

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### Session 10

Python Check If File or Directory Exists  
Python COPY File using `shutil.copy()`, `shutil.copystat()`  
Python Rename File and Directory using `os.rename()`  
Python ZIP file with Example

### Session 11

Accessing Internet Data with Python  
Manipulating XML with Python

### Session 12-15

Project Work & Applications

#### Disclaimer:

A session doesn't necessarily depict the day count or the day on which it is going to be covered, we may cover more than or lesser than one session in a day and even alter/amend the schedule by rearranging of session(s) by removing/adding anything from/to overall course, the course structure may differ center wise, Also this is to notify that Eisystems Services is nowhere specifying that center in Varanasi will be IIT BHU campus, our center in Varanasi is different and Technex which is an annual techno entrepreneurship festival of IIT BHU Varanasi is a certification partner for this internship program. Fees once paid will not be refunded except in case of cancellation of training program or as given in terms and conditions.

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