

WORKSHOP PROPOSAL

“PYTHON”

Submitted by: -

E2MATRIX

(An ISO 9001:2008 Certified Company)

The Value of Trust



Return on Influence

***“Join hands for long relations because trust
matter”***

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Python is a widely used general-purpose, high-level programming language. Its design philosophy emphasizes code readability, and its syntax allows programmers to express concepts in fewer lines of code than would be possible in languages such as C++ or Java. The language provides constructs intended to enable clear programs on both a small and large scale. Python supports multiple programming paradigms, including object-oriented, imperative and functional programming or procedural styles. It features a dynamic type system and automatic memory management and has a large and comprehensive standard library. Python interpreters are available for installation on many operating systems, allowing Python code execution on a wide variety of systems.



The main purpose of this “Hands-on Training on Python” is to create awareness and enrich knowledge for research scholars, faculty and students in the area Python.

1-DAY WORKSHOP

DAY 1

1. Introduction to python (Using PowerPoint Slides)
2. Writing Simple Programs
3. Discuss How Python Program runs
4. Types and Operations in python
5. Numbers
6. Strings
7. Lists and Tuples
8. Dictionaries
9. Files
10. Statements and Syntax

TIME DURATION: 4 hours

COST: 200/- PER STUDENT

2-DAYS WORKSHOP

DAY 1

1. Introduction to python (Using PowerPoint Slides)
2. Writing Simple Programs
3. Discuss How Python Program runs
4. Types and Operations in python
5. Numbers
6. Strings
7. Lists and Tuples
8. Dictionaries
9. Files
10. Statements and Syntax

DAY 2

1. Assignments, Expressions and Print Statements
2. Conditional constructs
3. Iterative Constructs
4. Introduction to Functions and Lambda Forms
5. Functions and Arguments and Scope
6. List Comprehensions
7. Generators

TIME DURATION: 4 hours/day

COST: 300/- PER STUDENT

3-DAYS WORKSHOP

DAY 1

11. Introduction to python (Using PowerPoint Slides)
12. Writing Simple Programs
13. Discuss How Python Program runs
14. Types and Operations in python
15. Numbers
16. Strings
17. Lists and Tuples
18. Dictionaries
19. Files
20. Statements and Syntax

DAY 2

8. Assignments, Expressions and Print Statements
9. Conditional constructs
10. Iterative Constructs
11. Introduction to Functions and Lambda Forms
12. Functions and Arguments and Scope
13. List Comprehensions
14. Generators

DAY 3

1. Understanding Modules in Python
2. Module Packages
3. Package imports
4. Mixed usage modes
5. Introduction to OO Programming in python
6. Class coding basics

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7. OOP and Inheritance
 8. New Styled Classes
 9. Introduction to Exceptions

TIME DURATION: 4 hours/day

COST: 500/- PER STUDENT