



## **Sandip Institute of Technology and Research Centre**

At & Po – Mahirawani, Trimbak Road, Tal & Dist .– Nashik

Phone: (02594) 222552,53,54, Fax: (02594) 222555

Website: [www.sandipfoundation.org](http://www.sandipfoundation.org), e-mail: [principal@sitrc.org](mailto:principal@sitrc.org)

(Approved by-AICTE, New Delhi, & Govt. of Maharashtra and Permanently Affiliated to Savitribai Phule Pune University (Formerly Pune University), Pune.

Accredited with “A” grade by NAAC With CGPA Score of 3.11



**SANDIP**  
FOUNDATION



# **Activity Report**

# **Of**

## **Five Days Technical**

## **Workshop on**

## **“Python Programming”**

**(4<sup>th</sup> September to 8<sup>th</sup> September 2023)**

**Organized by**

**Department of Information Technology**

**Sandip Institute of Technology and Research**

**Centre**

**Name of Program:** Five Days Technical Workshop on “Python Programming”

**Date:** 4<sup>th</sup> September to 8<sup>th</sup> September 2023

**Resource Person:** Mrs. Vrushali Kulkarni

**Event Coordinator:** Prof. Savita Mogare (Asst. Professor, SITRC)

**Participants:** SE Students (I.T. Department)

**Venue:** Seminar Hall (D Building)

**Aim:**

The aim of this workshop organized for students is to provide the foundations of the practical implementation and usage of Python Programming. This workshop introduces fundamental concepts & recent advances of Python Programming which in turn help students to apply it in practice and further laid the foundation to a deeper study in this area.

**Objectives:**

- 1) To acquire programming skills in Python.
- 2) To acquire Object oriented skills in Python.
- 3) To acquire knowledge of application in Python

## **Objective: Day wise**

### **Day1:**

#### Module 1: An Introduction to Python

- what can Python do?
- Why Python?
- Good to know
- Python Syntax compared to other programming languages
- Python Install

#### Module 2: Beginning Python Basics

- The print statement
- Comments
- Python Data Structures & Data Types
- String Operations in Python
- Simple Input & Output
- Simple Output Formatting
- Operators in python

### **Day 2:**

#### Module 3: Python Program Flow

- Indentation
- The If statement and its' related statement
- An example with if and it's related statement
- The while loop
- The for loop
- The range statement
- Break &Continue
- Assert
- Examples for looping

#### Module 4: Functions & Modules

- Create your own functions
- Functions Parameters
- Variable Arguments
- Scope of a Function
- Function Documentations
- Lambda Functions& map
- n Exercise with functions
- Create a Module
- Standard Modules

### **Day 3:**

#### Module 5: Exceptions Handling

- Errors
- Exception handling with try
- handling Multiple Exceptions
- Writing your own Exception

#### Module 6: File Handling

- File handling Modes
- Reading Files
- Writing& Appending to Files

- Handling File Exceptions
- The with statement

**Day 4:**

Module 7: Classes in Python

- New Style Classes
- Creating Classes
- Instance Methods
- Inheritance
- Polymorphism
- Exception Classes & Custom Exceptions

**Day 5:**

Module 8: Generators and iterators

- Iterators
- Generators
- The Functions any and all
- With Statement
- Data Compression

Module 9: Data Structures

- List Comprehensions
- Nested List Comprehensions
- Dictionary Comprehensions
- Functions
- Default Parameters
- Variable Arguments
- Specialized Sorts

**Outcomes:**

- 1) Explained basic principle of Python Programming
- 2) Implemented object oriented concepts
- 3) Understands the case studies related to Python
- 4) Build basic programs using fundamental programming constructs like variables, conditional logic, looping, and functions

Event Photographs:









CGPA Score : 3.11

## Sandip Foundation's

Sandip Institute of Technology & Research Centre, Nasik

(Approved by AICTE, New Delhi & Govt of Maharashtra, Affiliated to Savitribai Phule Pune University, Pune)

### FIVE DAY TECHNICAL PYTHON WORKSHOP

Date: 4 September 2023 to 8 September 2023

Time: 10.10 am to 5 pm

Venue: Seminar Hall, D Building, Department of Mechanical Engineering.



**Sandip Foundation's  
Sandip Institute of Technology and  
Research Technology, Nashik**

**NAAC A Accredited**



**Certificate of Appreciation**

This is to certify that,

**Aditya Nagare**



Has participated and successfully completed Five Days workshop on “**Python Programming**” organized by **Department Of Information Technology, SITRC, Nashik**. The duration of program was from 4<sup>th</sup> September 2023 to 8<sup>th</sup> September 2023.

A handwritten signature in black ink, appearing to read 'A. Gaidhani'.

**Prof. Abhay Gaidhani**  
**HOD, IT dept, SITRC**

A handwritten signature in blue ink, appearing to read 'M.M. Patil'.

**Prof. (Dr.) M.M. Patil**  
**Principal, SITRC, Nashik**

**Sandip Foundation's  
Sandip Institute of Technology and  
Research Technology, Nashik**

**NAAC A Accredited**



**Certificate of Appreciation**

This is to certify that,

**Ankit Patil**

Has participated and successfully completed Five Days workshop on  
“**Python Programming**” organized by **Department Of Information  
Technology, SITRC, Nashik**. The duration of programme was from 4<sup>th</sup>  
September 2023 to 8<sup>th</sup> September 2023.



**SANDIP  
FOUNDATION**

A handwritten signature in black ink, appearing to read 'Abhay Gaidhani'.

**Prof. Abhay Gaidhani  
HOD, I.T. dept., SITRC**

A handwritten signature in blue ink, appearing to read 'M.M. Patil'.

**Prof. (Dr.) M.M. Patil  
Principal, SITRC, Nashik**

Date: 02/09/2023

To,  
Mrs. Vrushali Kulkarni  
Senior Manager,  
Skill Development Hub,  
Nashik Engineering Cluster.

Subject – Invitation Letter for Python Programming Workshop.

Greetings from Sandip Foundation's Sandip Institute of Technology & Research Centre, Nashik.

We are pleased to invite you as an Expert for the workshop on Python Programming, proposed on 04th Sept 2023 to 8th Sept 2023. Please accept the invitation and grace the session with your presence.



Thanks, and Regards,  
Prof. Abhay Gaidhani  
HOD – Information Technology Department  
Sandip Institute of Technology and Research Centre,  
Mahiravani, Nashik-422 213

Date: 08/09/2023

Mrs. Vrushali Kulkarni  
Senior Manager,  
Skill Development Hub,  
Nashik Engineering Cluster.

Subject: Letter of Appreciation

Dear Madam,

Thank you very much for delivering on informative and thought provoking lecture as a Guest Speaker on "Five Days Technical Workshop on Python" held from 4th September to 8th September 2023 at Department of Information Technology, Sandip Institute of Technology and Research Centre, Nashik. It was really a splendid presentation which exposed students to field practices. All students appreciated and got benefited from your views on the subject. Looking forward for your co-operation for the promotion of professional education in future as well.



Thanks, and Regards,

Prof. Abhay Gaidhani

HOD – Information Technology Department

Sandip Institute of Technology and Research Centre,

Mahiravani, Nashik-422 213



Prof. Savita Mogare

(Event co-ordinator)



Prof. A.R. Gaidhani

(Head, Information Technology)



Dr. M. M. Patil

(Principal, SITRC)

