

Date :12 /02/2024

# **Activity Report**

TITLE : One Week " Python Programming" DATE : 12th Feb 2024 to 16th Feb 2024 Mode : Offline Organized By: Computer Department ( SE ) Speaker: Sangram Bagade

**PARTICIPANTS :** 

- SE Computer Students (DIV- A & B)
- Faculty Coordinator

No. Of Participants : 105.

## Session Objectives:

The Session is organized with the objective of introducing techniques in Python Programming. The objective of this program is to get the detailed knowledge about the Python Programming with theory and Practical based . Specifically, this Session is to promote discussion on theory, progress, development, deployment and the practical usage of "PYTHON PROGRAMMING".



Vision: - "To Satisfy the aspirations of youth force, who want to lead the nation towards prosperity through techno-economic development."
Mission: "To provide, nurture and maintain an environment of high academic excellence, research and entrepreneurship for all aspiring Studen which will prepare them to face global challenges maintaining high ethical and moral standards."



Session Coordinator welcomed all the participant and guests and elaborated the objectives of this Python Programming Session. Dr.G.M.Bhandari Ma'am– HOD of Computer Department guided the entire participant about their participation in such type of activities and gets updated with upcoming technologies. Prof. Madhuri Arya anchored with introductionary part about the Speaker. Prof Sri Sri Patil Sir welcomed speaker with small token of love.







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In this Python Programming session Sir explained the all the terms from basic to advance as below flow. Sir has explained all this term theoretical and practical also.

### **DAY 1:**

#### Phase 1: Getting Started

- Introduction to Programming Concepts: Understand basic programming concepts like variables, data types, operators, and control structures (if statements, loops).
- Setting Up Your Environment:

Install Python on your computer. You can use the official Python website (python.org) to download the latest version. Learn about Integrated Development Environments (IDEs) like Visual Studio Code, PyCharm, or Jupyter Notebook.

- Hello, World! Write your first Python program to print "Hello, World!" to the console.
- Basic Input and Output: Learn how to take input from users and display output in Python.

### **DAY 2:**

#### Phase 2: Building a Solid Foundation

• Data Structures:

Explore lists, tuples, sets, and dictionaries. Learn how to manipulate and access data within these structures.

- Functions: Understand how to define and call functions. Learn about parameters, return values, and scope.
- Control Flow:

Dive deeper into control structures like loops (for and while) and conditional statements (if, else,

elif).

• File Handling:

Learn how to read from and write to files using Python.





## **DAY 3:**

#### Phase 3: Object-Oriented Programming and Advanced Topics

- Introduction to OOP: Understand the principles of Object-Oriented Programming (OOP) like classes, objects, attributes, and methods.
- Classes and Objects: Learn how to create classes and instantiate objects. Understand constructors and instance variables.
- Inheritance and Polymorphism: Explore the concepts of inheritance and polymorphism in OOP.
- Error Handling: Learn how to handle exceptions using try, except, and finally blocks.
- Modules and Libraries: Explore Python's built-in modules and external libraries. Learn how to import and use them in your code.

### **DAY 4:**

#### Phase 4: Projects and Practice

- Small Projects:
- Start building small projects to apply what you've learned. Examples: a to-do list app, a simple calculator, or a basic game.

## <u>DAY 5:</u>

#### **Phase 5: Going Further**

- Web Development (Optional): If interested, learn about web frameworks like Flask or Django to build web applications using Python.
- Data Science (Optional):

Explore more advanced data manipulation, visualization, and machine learning using libraries like Matplotlib, Seaborn, and Scikit-Learn.

Python is a vast language with many applications. Stay updated by reading blogs, books, and exploring new libraries and trends.





B.E. (Elec.) PGDM, Ph.D **Founder Secretary** 

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### **PHOTOS OF SESSION**





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### HOD Dr.G.M.Bhandari



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