

## **Report on Hands-on Training Program on Data Analytics Using Python**

**Event Name:** Hands-on Training Program on Data Analytics Using Python

**Date and Venue:** 7th, 8th, and 9th February 2025, CIC - Microsoft Lab

**Organizing Department:** Information Technology Department

### **Objective of the Event:**

The primary objective of this training program was to provide students with practical exposure to Data Analytics using Python. The program aimed to equip participants with the necessary skills in data handling, analysis, and visualization using Python libraries such as Matplotlib, NumPy, and Pandas. Through hands-on training, students were expected to develop a strong foundation in data analytics techniques applicable to real-world scenarios.

### **Speakers:**

1. **Prof. Ashok Patil** – Renowned Data Science expert from Sri Venkateswara University, Karnataka
2. **Dr. Padmapriya Patil** – Experienced researcher in Data Analytics and Machine Learning, Sri Venkateswara University, Karnataka

### **Sessions and Key Topics Covered:**

The training program spanned three days, with daily sessions lasting 8 hours (excluding lunch breaks). The key topics covered included:

- **Introduction to Data Analytics and Python Libraries**
- **Data Handling with Pandas**
- **Numerical Computations using NumPy**
- **Data Visualization Techniques with Matplotlib**
- **Hands-on Exercises and Real-World Applications**

### **Participation Details:**

A total of 60 third-year students from the Information Technology Department actively participated in the program. The interactive nature of the sessions allowed students to engage directly with the experts, clarifying doubts and working on practical exercises.

### **Outcomes and Impact:**

The training program successfully enhanced students' knowledge and skills in Data Analytics using Python. By the end of the program, students were able to:

- Understand and implement core Python libraries for data analytics
- Perform data manipulation and cleaning efficiently
- Apply visualization techniques to represent data effectively

- Gain insights into industry practices and applications of data analytics. The program bridged the gap between theoretical learning and practical implementation, preparing students for future opportunities in Data Science and Analytics.

### **Special Achievements and Highlights:**

The presence of distinguished speakers from Sri Venkateswara University, Karnataka, added immense value to the training. Their expertise and insights provided a deep understanding of real-world applications, making the sessions highly engaging and informative.

### **Conclusion and Feedback:**

The Hands-on Training Program on Data Analytics Using Python was a resounding success. The well-structured sessions, interactive approach, and expert guidance contributed to a highly enriching learning experience. Students expressed their appreciation for the practical exposure and requested similar advanced-level training in the future. The department looks forward to organizing more such programs to empower students with industry-relevant skills.

Overall, the event achieved its intended objectives and provided a significant boost to students' knowledge in Data Analytics. The Information Technology Department extends its gratitude to the esteemed speakers, participants, and organizing team for making this program a grand success.

### **Glimpses from the program**















