



School of Computer Sciences and Engineering
Department of Computer Science and Application
Event Report (Academic Year 2024-25)

Category of Event	: Workshop
Title (Name of Event)	: 3 days' workshop on " *Introductory Scientific Computing with Python " in collaboration with FOSSEE, IIT Bombay.
Schedule (Date(s) and Time)	: From 25/03/2025 to 27/03/2025 (8.00 AM to 3.00 PM)
Venue	: Seminar Hall, 'O' Building, F102, F105, S123 Labs, 'O' Building
Duration	: 03 Days (8.00 AM to 3.00 PM)
Organizing Faculty/ Convener (s)	: Dr. Vaibhav Sonaje
Organizing Department	: SOCSA
Faculty Coordinators	: Dr Sarika kondekar, Assistant Professor, SOCSE. Dr Deepali Chaudhary, Assistant Professor, SOCSE. Miss. Eshwari Rakibe, Assistant Professor, SOCSE.
Total Number of Participants	: 147 [FYMCA, TYBCA, TYBSc CS, SYBCA, SYBSc CS]
Expert(s) Profile	: FOSSEE, IIT Bombay.
Objectives	: • To provide technical knowledge of Python Programming. • To introduce participants to Python and its scientific computing libraries. • To demonstrate the use of Python for numerical computation and data visualization. • To provide hands-on experience in solving real-world computational problems. • To familiarize students and faculty with open-source computational tools promoted by FOSSEE, IIT Bombay.
About the activity	: • Day 1: (25th March 2025) ○ Inauguration and welcome address by dignitaries. ○ Session 1: Introduction to Python and Preliminaries. ○ Session 2: Hands-on session on IPython & Plotting. ○ Q&A session followed by Quiz 1 on the Yaksh portal. ○ Session 3: Saving Scripts and Plotting. ○ Session 4: Lists and NumPy Arrays.



- Interactive Q&A session.
- Quiz 2 (Yaksh portal) to test learning outcomes.
- **Session 5:** Advanced NumPy Arrays and their applications.
- Q&A session followed by Quiz 3 on the Yaksh portal.
- **Session 6:** Basics of data types in Python.
- **Day 2: (26th March 2025)**
 - **Session 1:** Practice basics using the Yaksh portal.
 - **Session 2:** Control flow in Python.
 - Q&A session.
 - **Session 3:** Practice control flow exercises on the Yaksh portal.
 - **Session 4:** Core data structures in Python.
 - Q&A session.
 - **Session 5:** Hands-on practice with data structures on the Yaksh portal.
- **Day 3: (27th March 2025)**
 - **Session 1:** Quiz 4 on the Yaksh portal.
 - **Session 2:** Functions in Python.
 - **Session 3:** Practice functions using the Yaksh portal.
 - **Session 4:** Files and their handling in Python.
 - Interactive Q&A session.
 - **Session 5:** Modules and Exception Handling in Python.
 - **Session 6:** Hands-on practice with files and exceptions on the Yaksh portal.
 - **Session 7:** Self-study and Q&A session.
 - **Session 8:** Final Quiz 5 on the Yaksh portal.

Outcome of the Workshop : • Participants gained a solid foundation in Python programming for scientific applications.

• They learned how to use Python libraries such as NumPy, Pandas, Matplotlib, and SciPy for computational tasks.

• The workshop enhanced participants' problem-solving and coding skills, making them industry-ready.

• The collaboration with IIT Bombay provided exposure to open-source tools and opportunities for future research engagements.

Conclusion : **The three-day workshop on "Introductory Scientific Computing with Python"** was a grand success, equipping attendees with essential programming skills and scientific computing techniques. The Department of SOCSA extends gratitude to the FOSSEE team from IIT Bombay for their support and guidance. We look forward to organizing more such collaborative workshops in the future to foster learning and research in computational sciences.



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Flyer

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School of Computer Sciences and Engineering
Department of Computer Sciences & Application

Join Us For Our

PYTHON WORKSHOP

March 25, 26, and 27, 2025 • 8:00 AM to 3:00 PM

Workshop Content

Python Basics:

- Introduction to Python
- Basic Data Types
- Control Flow
- Functions

Data Science Tools:

- Numpy Arrays
- Core Data Structures
- IPython Notebooks
- Plotting & Files
- Modules & Exceptions

Workshop Details

Target Audience:

- Students and faculty with beginner to intermediate programming knowledge

You Will Learn:

- Foundational Python programming skills
- Data analysis and visualization techniques

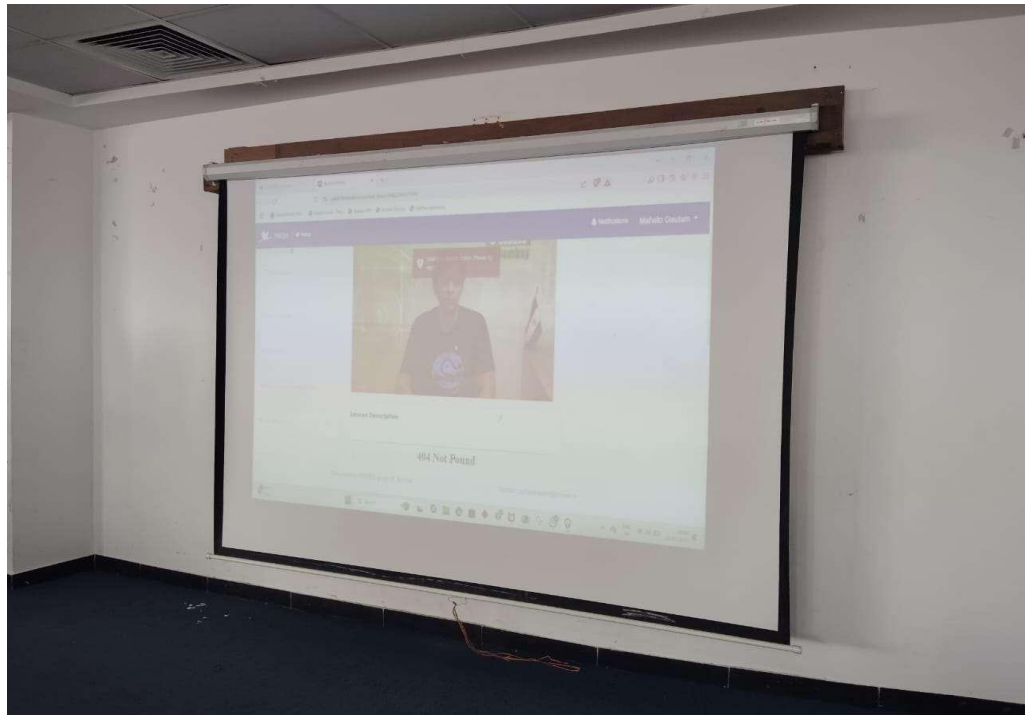
Coordinator

Dr Sarika kondekar
Dr Deepali chaudhary
Prof Eshwari Rakibe

Venue

O Building, Sandip University,
Nashik-422 213

Photographs : Day 1(25/03/2025):



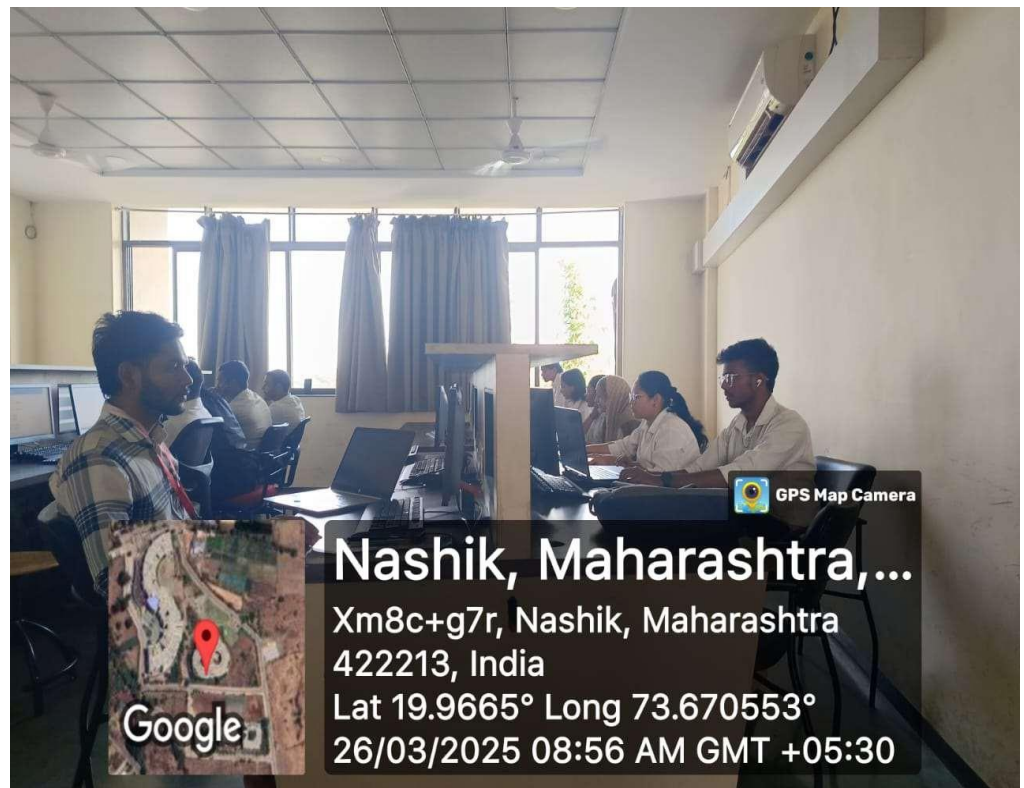


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Day 2(26/03/2025):





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Day 3(27/03/2025)





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