



CATHOLICATE COLLEGE PATHANAMTHITTA

Activity Report - Academic Year 2025-2026

Activity Name: WORKSHOP ON BASICS OF PYTHON

CATHOLICATE COLLEGE PATHANAMTHITTA KERALA- 689645

NAAC Reaccredited A⁺⁺ Grade with CGPA 3.53

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WORKSHOP ON BASICS OF PYTHON





WORKSHOP ON BASICS OF PYTHON

Date: 11 February 2026

Time: 01:30 PM – 04:00 PM

Venue: Department of Physics / Computer Lab

Organised by: Postgraduate and Research Department of Physics

In association with: Internal Quality Assurance Cell (IQAC)

Resource Persons:

- Ms. Bodhika Anil, II Year BSc Physics (Honours)
- Ms. Lisha Joseph, II Year BSc Physics (Honours)

Introduction

The Postgraduate and Research Department of Physics, in association with the Internal Quality Assurance Cell (IQAC), Catholicate College, Pathanamthitta, organized a **Workshop on Basics of Python** on 11 February 2026. The programme aimed to introduce students to the fundamentals of Python programming and its applications in scientific and academic contexts.

The workshop was designed as a student-led initiative, promoting peer learning and collaborative knowledge sharing, aligning with the institution's focus on innovative teaching-learning practices.

Objectives of the Programme

The primary objectives of the workshop were:

- To provide a basic understanding of Python programming language
- To familiarize students with coding concepts and logical thinking
- To introduce Python applications in physics and scientific computing
- To encourage peer learning and student-led academic initiatives
- To enhance digital and computational skills among students

**POSTGRADUATE AND RESEARCH
DEPARTMENT OF PHYSICS &
INTERNAL QUALITY ASSURANCE CELL (IQAC)
CATHOLICATE COLLEGE, PATHANAMTHITTA**
Jointly Organises

WORKSHOP ON BASICS OF PYTHON



BODHIKA ANIL
II Year BSc Physics
(Honours) Student



LISHA JOSEPH
II Year BSc Physics
(Honours) Student



11 FEBRUARY, 2026



01:30 PM - 04:00 PM

Dr. George Thomas
IQAC Coordinator

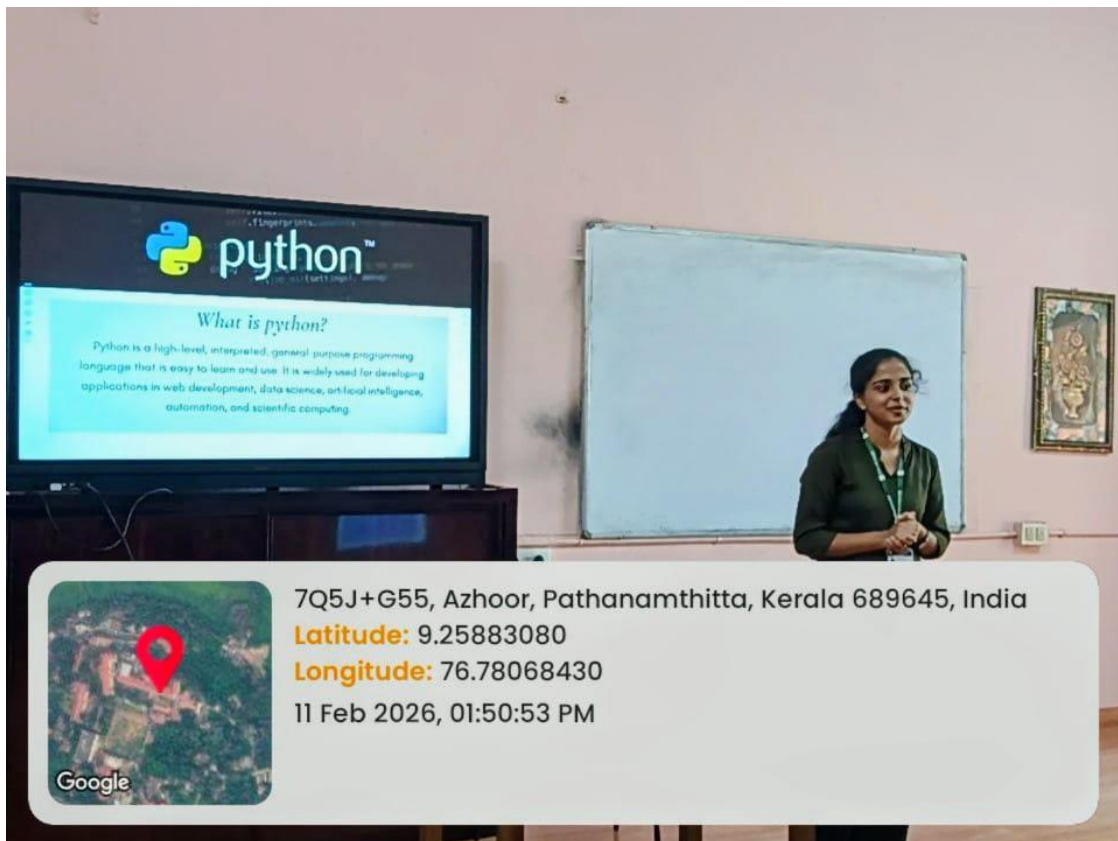
Dr. Dhanya I
HoD, Dept. of Physics

Dr. Sindu Jones
Principal



Participant Details

The workshop was attended by postgraduate students from the Department of Physics and other interested departments. The participation level was satisfactory, and students actively engaged throughout the session.





Programme Description

The workshop commenced with a brief introduction highlighting the importance of programming skills in modern education and research, especially in physics and interdisciplinary fields. The session was handled by student resource persons **Ms. Bodhika Anil** and **Ms. Lisha Joseph**, who effectively demonstrated the basics of Python programming in an engaging manner.

The session covered the following topics:

- Introduction to Python and its features
- Installation and working environment
- Basic syntax and structure
- Variables, data types, and operators
- Input and output functions
- Conditional statements and loops
- Introduction to simple problem-solving using Python

The resource persons used a hands-on approach, allowing participants to practice coding exercises during the session. Real-time demonstrations and examples helped students understand programming concepts clearly.

Participants actively engaged in the session by solving simple coding problems and interacting with the resource persons. The workshop created a collaborative learning environment where students felt encouraged to explore programming.

Significance of the Programme

The workshop is significant in the current academic scenario where programming skills are essential for research, data analysis, and technological applications. Introducing Python at the undergraduate level helps students build a strong foundation in computational thinking.

This initiative:

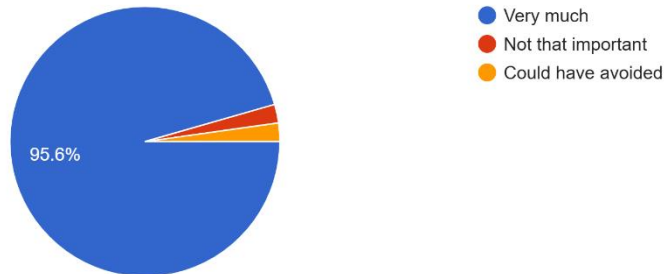
- Promotes skill-based learning and digital literacy
- Encourages interdisciplinary application of programming in physics
- Supports outcome-based education and employability skills
- Aligns with **Sustainable Development Goal 4 – Quality Education**

The programme also highlights the effectiveness of peer teaching as an innovative pedagogical approach.

Feedback Analysis

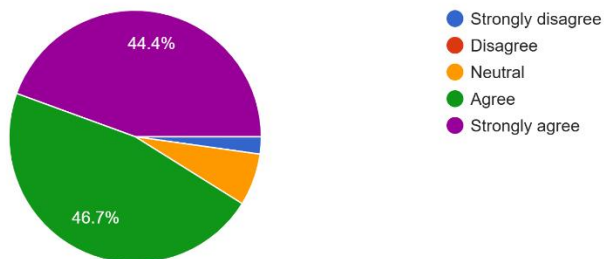
How significant was this session in your perspective?

45 responses



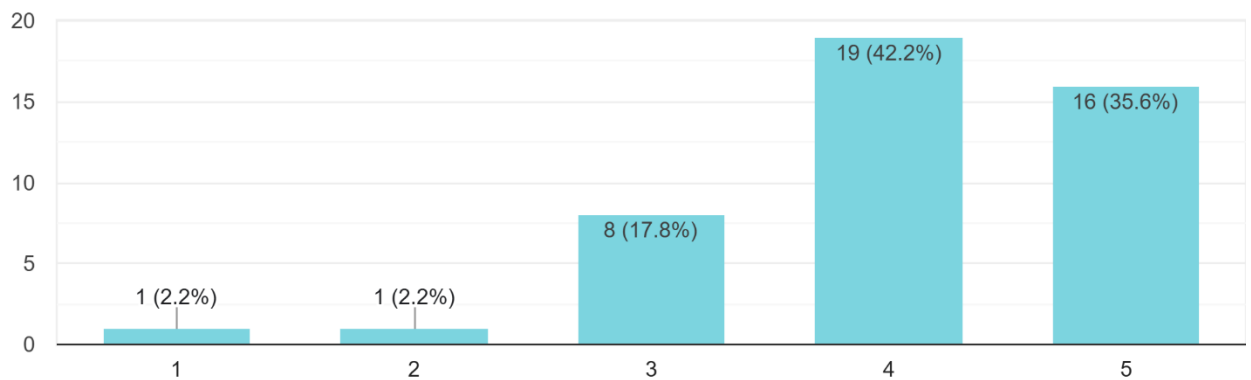
The resource person maintained a positive attitude throughout the session.

45 responses



Overall rating of today's program on a scale of 1 to 5

45 responses



Outcomes of the Programme

The workshop resulted in the following outcomes:

1. **Basic Programming Knowledge:** Participants gained foundational knowledge of Python programming.
2. **Skill Development:** Students developed problem-solving and logical thinking skills.
3. **Hands-on Experience:** Participants acquired practical exposure through coding exercises.
4. **Peer Learning Enhancement:** Strengthened collaborative learning among students.
5. **Increased Interest:** Students showed interest in exploring advanced programming and applications.

Conclusion

The **Workshop on Basics of Python** was a successful initiative that effectively introduced students to programming concepts in an engaging and practical manner. The student-led approach enhanced participation and created a dynamic learning environment.

The programme contributed significantly to developing computational skills and fostering interest in coding among students. Such initiatives strengthen the institution's commitment to quality education, skill development, and innovative teaching-learning practices.



George Thomas