



# ACHARYA INSTITUTE OF TECHNOLOGY



Department of mathematics

## 5 Days Faculty Development Program on APPLIED MATHEMATICAL METHODS USING PYTHON ON OCCASION OF INTERNATIONAL PI DAY

10<sup>th</sup> to 14<sup>th</sup> March 2025 | 10:00 am to 04:30 pm  
Acharya Campus, Bangalore

### About the Program

An FDP (Faculty Development Programme) on **Applied Mathematical Methods using Python** is typically designed to help educators to enhance their skills in applying Mathematical techniques using Python. This program aims to bridge the gap between theoretical Mathematics and its practical applications in Engineering and Technology. Also, this FDP supports the faculty in various aspects of their lives, including academic, personal and career development.

#### Objectives of the Program

- To strengthen knowledge of programming concepts.
- To integrate Python in Teaching and Learning.
- To enable faculty members to use Python for research and academic projects.
- To provide hands-on experience in coding using Python.

#### Expected Outcome of the Program

The participants will be able to:

- Understand the structure of Python programming.
- Able to write programme code for the given Mathematical problem.
- Apply Python programming for Mathematical problems.



### Important Dates

Event Details	Dates
Important Dates	10 <sup>th</sup> - 14 <sup>th</sup> Mar 2025
Time	10:00 AM to 04:30 PM
Target Audience	Faculty of Mathematics, Acharya Institute of Technology
Type of program	Offline
Venue	Civil Seminar Hall, ANA block, AIT

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### Committee Members

#### ADVISORY COMMITTEE

- Dr. Rajeswari M, Principal, AIT
- Dr. C K Mari Gowda, Vice Principal, AIT
- Dr. Rajanna K R, Professor and Coordinator - Students Affairs, AIT
- Dr. Kala Venugopal, Dean- Faculty & Staff Development, AIT
- Dr. Abhishek V, Associate Dean - Faculty & Staff Development, AIT
- Dr. Vijayashekhar S Sankannavar, HOD, Department of AI& ML, AIT

#### CONVENER

- Dr. T Rami Reddy, Assistant Professor and HOD, Dept. of Mathematics, AIT

#### COORDINATORS

- Dr. Girisha A, Associate Professor, Dept. of Mathematics, AIT, ✉ girisha2934@acharya.ac.in, ☎ +91 97397-60112
- Mrs. Gayathri V, Asst. Professor, Dept. of Mathematics, AIT, ✉ gayathri3026@acharya.ac.in, ☎ +91 91086-65348

### Resource Persons Details



#### Dr. Kavitha Nair R

**Designation :** Assistant Professor, Department of AIML, AIT



#### Prof. Surbhi

**Designation :** Assistant Professor, Department of AIML, AIT



#### Prof. Syed M Illahi

**Designation :** Assistant Professor, Department of AIML, AIT

### Program Schedule

#### Day-1 (10-03-2025)

- 10:00 AM - 12:30 PM : **Fundamentals of Python programming** by Dr. Kavitha Nair R
- 12:30 PM - 02:00 PM : **Lunch Break**
- 02:00 PM - 04:30 PM : **Hands-on session on Python programming** by Dr. Kavitha Nair R

#### Day-2 (11-03-2025)

- 10:00 AM - 12:30 PM : **Implementation of elementary mathematical methods - Hands-on session** by Dr. Kavitha Nair R
- 12:30 PM - 02:00 PM : **Lunch Break**
- 02:00 PM - 04:30 PM : **Computation of Laplace and Fourier transforms using Python - Hands-on session** by Prof. Syed M Illahi

#### Day-3 (12-03-2025)

- 10:00 AM - 12:30 PM : **Computation of vector quantities and evaluation of beta and gamma functions - Hands-on session** by Prof. Syed M Illahi
- 12:30 PM - 02:00 PM : **Lunch Break**
- 02:00 PM - 04:30 PM : **Exploring Interpolation and Numerical Integration using Python - Hands-on session** by Dr. Kavitha Nair R

#### Day-4 (13-03-2025)

- 10:00 AM - 12:30 PM : **Computation of numerical solution of differential equations using Python - Hands-on session** by Prof. Surbhi
- 12:30 PM - 02:00 PM : **Lunch Break**
- 02:00 PM - 04:30 PM : **Solution of equations and PDEs using Python - Hands-on session** by Prof. Surbhi

#### Day-5 (14-03-2025)

- 10:00 AM - 12:30 PM : **Hands-on session on Linear Algebra using Python** by Prof. Surbhi
- 12:30 PM - 02:00 PM : **Lunch Break**
- 02:00 PM - 04:30 PM : **Valedictory and Feedback session**



#### Acharya Institute of Technology

Acharya Dr. S. Radhakrishnan Road, Acharya P.O  
Soladevanahalli, Bangalore - 560107, Karnataka, India.

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#### Event Coordinator

Dr. Girisha A  
Associate Professor  
Dept. of Mathematics, AIT