

## ABOUT FDP

In today's digital age, data analysis, and data processing have become essential skills for professionals across various fields, including core engineering branches like Civil, Mechanical, and Electrical Engineering. Damage detection, vibration identification, 3D reconstruction, etc in the field of civil engineering; generative design, predictive maintenance, and control optimization in mechanical engineering and planning, distribution, and automation of power systems in electrical engineering are a few applications where AI and ML are effectively used nowadays. The main objective of the faculty development program is to introduce the participants to the concept of data analysis, data processing, and modeling aspects using AI. The participants will have hands-on experience with the data sets shared.

## ABOUT APSIT

A. P. Shah Institute of Technology (APSIT) has started functioning with a commitment to imparting state of art technical education to inculcate conceptual know-how, analyzing skills, decision-making abilities, and leadership qualities in the students. APSIT stands committed to the intellectual and moral growth of every student. APSIT is affiliated with the University of Mumbai, approved by the All India Council for Technical Education (AICTE), and accredited by the National Board of Accreditation (NBA).

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Prof. Megha Thomas



## ISTE Approved Faculty Development Programme

on

### “Design & Development of AI-ML Models for Beginners”

with a focus on applications in core engineering branches  
and applied sciences

17- 21 July 2023

### Organized by

The Department of Civil Engineering  
in association with

Artificial Intelligence Club (AIC)  
&  
Civil Engineering Student's Association  
(CESA)



At

Parshvanath Charitable Trust's

**A. P. SHAH INSTITUTE OF TECHNOLOGY,**  
Survey No 12,13, Opp. Hypercity Mall, Kasarvadavali,  
Ghodbundar Road. Thane (W)-400615

## Program Speakers

### Dr. Shrikant Charhate

Professor, Civil Engg. Dept, Amity University

### Dr. Rajendra Magar

Professor, Civil Engg. Dept, AIKTC, Navi Mumbai

### Dr. Shrinivas N. Londhe

Professor, Civil Engg. Dept, VIIT, Pune

### Dr. Pradnya Dixit

Associate Professor, Civil Engg. Dept, VIIT, Pune

### Dr. Priti Kulkarni

Associate Professor, Civil Engg. Dept, VIIT, Pune

## Program Content

1. Introduction to hard computing, soft computing, and AI-ML.
2. Hands-on training in Data Analytics, Data visualization, and Data preprocessing.
3. Hands-on training in Designing an Artificial Neural Networks model.
4. Performance criteria (error measures) of AI models.
5. Hands-on training in Designing a Genetic Programming (GP) model.
6. Hands-on training on Model Tree development, Support Vector Regression (SVR) model.

## Program Objectives

- To spread awareness about the application of AI and ML in the core branches of engineering and applied sciences.
- To develop and train AI and ML models to solve engineering problems of moderate complexity.

## On completion of this FDP

- Participants will be able to create AI and ML models and apply them in their respective fields of interest.

## Target Audience

- Research Scholars
- MTech/ ME students of various disciplines.
- Faculty from academic/technical institution
- Industry professional engaged in research.

## Schedule

Two sessions per day

**Morning session:** 9.30 a.m -12.30 p.m

**Afternoon session:** 1.30 p.m -4.30 p.m

(In the afternoon session Hands-on Practice will be given to the participants)

**Food & refreshments:** working lunch and high-tea included

**Registration Fees:** 1000 INR (including taxes)  
Interested participants must pay the registration fee online to the following account.

Account Name: PCTS APSHAH INSTITUTE OF TECHNOLOGY,  
Bank Name: IDBI Bank,  
Account number: 1608104000014997,  
IFSC Code: IBKL0001608,  
Branch: Kasarvadavli Thane Branch

Transaction details must be entered in Google form for registration (Transaction Id, screenshot of the transaction)

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## How to Apply?

Prospective applicants for participation in the training program should register through the given link: <https://forms.gle/Hcspexe1N8rcrgP88> or using QR given below



The payment and identity proof should be uploaded in the Google form.

## Important Dates

Last date for online registration: 12 July 2023

Training Program Dates: 17- 21 July 2023

## For Queries, please contact

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