

## COURSE OUTLINE

- Introduction to Machine Learning , Soft Computing and its Applications
- Revisiting Conventional Machine Learning Techniques
- Introduction to Fuzzy Logic based System Design and its applications.
- Introduction to ANNs and their Applications
- Design and Development of Soft Computing based Machine Learning Models
- Hands-on training.

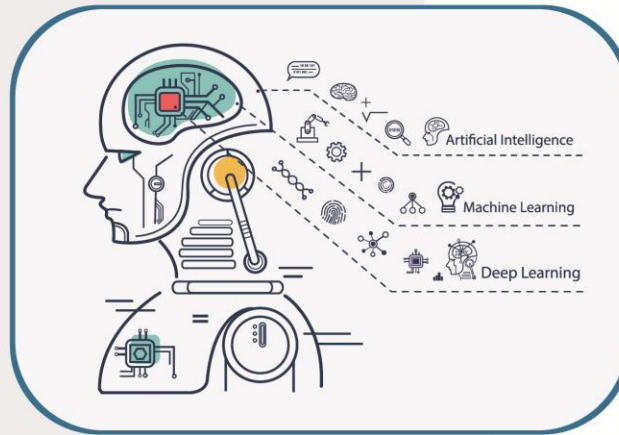
## OBJECTIVES

The training program aims at providing an opportunity to participants for enriching their knowledge and skills in developing Machine Learning models using Soft Computing approaches such as Fuzzy Logic and Artificial Neural Networks (ANN), for solving engineering problems. This training serves as a platform for Research Scholars, Faculty & Industry Professionals to develop their skills in design and development of machine learning model for highly complex and non linear applications.

## EXPECTED OUTCOMES

By the end of STTP the participants will be able to :-

- Understand the basics of Machine Learning & Soft Computing approaches
- Train & Apply conventional Machine learning models such as Regression, KNN, SVM, Decision Tree to solve appropriate problems.
- Apply Meta-Heuristic Search & Optimization algorithms to evolve optimized Machine Learning Models
- Design & Develop Multi-Input Single-Output Fuzzy Logic based Machine Learning Models
- Design & Develop Multi-Input Single-Output ANN based Machine Learning Models



AICTE  
Sponsored One Week

## Online Short-Term Training Program (STTP)

On

## “DESIGN OF SOFT COMPUTING BASED MACHINE LEARNING MODELS”

STTP-I: 26<sup>th</sup> April - 01<sup>st</sup> May, 2021

STTP-II: 17<sup>th</sup> May - 22<sup>nd</sup> May, 2021

STTP-III: 07<sup>th</sup> June - 12<sup>th</sup> June, 2021

STTP-IV: 12<sup>th</sup> July- 17<sup>th</sup> July, 2021

Organized by  
**Department of Electronics &  
Communication Engineering**

70, Milestone GT Road, Samalkha, Panipat, Haryana - 132102 India  
Contact: 1800 120 6884 (Toll Free), 0180-2569700, 2569799, 2569699

## About AICTE

All India Council for Technical Education (AICTE) was set up as a national-level Apex Advisory Body to conduct a survey on the facilities available for technical education. The aim was to promote development in the country in a coordinated and integrated manner. AICTE is vested with statutory authority for planning, formulation and maintenance of norms and standards, quality assurance. Council do the same through school accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification & awards, ensuring coordinated & integrated development and management of technical education in the country.

## About PIET

PIET is a leading multi-disciplinary institute of north India affiliated to Kurukshetra University, Kurukshetra and approved by AICTE. For over a decade PIET has maintained its #1 position amongst the best engineering colleges in Haryana and is also coveted as a leading Engineering college in Haryana. Committed to developing new age leaders with a holistic approach and futuristic orientation, its graduates are regularly placed in top MNCs, blue-chip companies & start-ups. We inspire excellence using innovative teaching methods as well as the human skill-sets necessary to succeed in the disruptive & transformative world of the future.

## Resource Person(s)

Sessions will be delivered by eminent experts from NITs, IITs & other reputed universities

## ELIGIBILITY

This course is open to Faculty members of AICTE affiliated Institutions, Research Scholars and Industry Professionals.

## NO REGISTRATION FEES

- After the registration, Join Whatsapp group for all details related to STTP. Certificate will be issued to only those participants who will successfully complete the program with 75% attendance & qualify with 60% marks.

## Address for Communication :

Prof. (Dr.) Anju Bhandari Gandhi  
(9354176495)  
Prof. (Dr.) Mukesh Chawla  
(7206581469)

Email: [sttp.scml@piet.co.in](mailto:sttp.scml@piet.co.in)

## Chief Patron

**Shri. Hariom Tayal**, Chairman

## Patrons

**Shri. Suresh Tayal**, Member Secretary, BOG

**Shri. Rakesh Tayal**, Vice-Chairman

**Shri. Shubham Tayal**, Member, BOG

## Program Co-ordinator

**Prof. Dr. Shakti Kumar**,  
Director, PIET

## Organizing Committee:

**Prof. (Dr.) S.C. Gupta**

**Prof. (Dr.) Anju Bhandari Gandhi**  
(Member Secretary)

**Prof. (Dr.) Mukesh Chawla**

**Dr. Dinesh Verma**

**Er. Swati Gupta**

**Dr. Monika Gambhir**

**Dr. Vaishali Wadhwa**

**Er. Harminder Kaur**

**Er. Rajeev Dhanda**

**Mr. Shiraz khurana**

**Mr. Tarun Miglani**

**Mr. Rajan Saluja**

**Note : Submit the Registration Form through Online Process via :**

Click Here - <https://qr.go.page.link/FzeRn>

-or-



SCAN ME