

### Intended Participants

Faculty members from AICTE approved institutions, industry persons, research, and PG scholars from PAN India.

### Registration Details

The eligible participants are requested to register through the following link.

Link: <https://forms.gle/or3b7XktKsN683w4A>

Last date of Registration: 06<sup>th</sup> February 2022.

**No registration fees.**

### Selection of Participants

Selection of participants will be on First Come First Serve basis.

**Priority will be given to ISTE Life Members.**

**Confirmation of Registration** will be communicated to the participants through email by 7<sup>th</sup> February 2022.

### Program Conduction

The program sessions will be conducted in **online mode** using MS Teams.

The details will be emailed to selected participants through email by 7<sup>th</sup> February 2022.

**An online test will be conducted at the end of the program.**

**In addition, random test on daily basis will be conducted with minimum 5 objective /multiple choice questions on the topic covered for the day.**

### Certificate

The certificate will be issued to those participants who have attended the online program with **minimum 80% attendance** and **scored minimum 60% marks** in the tests, both daily and final.

### Address for Correspondence

Address: P.E.S's Modern College of Engineering, 1186A, Off J.M. Road, Shivaji Nagar, Pune, Maharashtra 411005.

Contact: +91-9423789495

Website: <https://moderncoe.edu.in/>

Email: [aiml2022@moderncoe.edu.in](mailto:aiml2022@moderncoe.edu.in)

### Chief Patron

**Hon. Prof. Dr. Gajanan R. Ekbote**

Chairman, Business Council, P. E. Society, Pune.

### Patrons

**Prof. Shamkant S. Deshmukh**

Secretary, Progressive Education Society, Pune

**Prof. Jyotsna G. Ekbote**

Jt. Secretary, Progressive Education Society, Pune

### Convener

**Prof. Dr. Mrs. K. R. Joshi**

Principal, PES's Modern COE, Pune.

### Coordinator

**Prof. Dr. Mrs. S. A. Itkar**

Head, Computer Engineering Department

### Co-coordinators

**Ms. D. V. Gore**

Associate Professor

**Mr. S. N. Deshpande**

Assistant Professor

### Resource Persons

- Dr. R. B. Pachori, IIT, Indore.
- Dr. Vivek Tiwari, IIT, Naya Raipur.
- Dr. Dilip Singh Sisodia, NIT, Raipur.
- Dr. Jitendra Kumar Rout, NIT, Raipur.
- Dr. Vijay Bhaskar Semwal, NIT, Bhopal.
- Dr. Deepak Ranjan Nayak, MNIT, Jaipur.
- Dr. S. N. Sapali, COE, Pune.
- Dr. Parag Kulkarni, iKnowlation Research Lab.
- Dr. P. N. Mahalle, VIIT, Pune.
- Dr. Tanveer Ahmad, Bennett University.
- Dr. Deepika Vatsa, Bennett University.
- Dr. Vipul Mishra, Bennett University.
- Dr. K. Rajeshwari, PCCOE, Pune.
- Mr. Arpit Yadav, INSOFE, Bangalore.
- Mr. Hakim Yameen, Bluebox Technology, Pune.
- Mr. Mohan Sathe, Pune.
- Ms. Rupa Singh, AI – BEEHIVE, Bangalore..

### Organizing Committee

The faculty and staff of Computer Engineering Department, PES, Modern COE, Pune.



Progressive Education Society's

**Modern College of Engineering,**

Pune -05.

**AICTE – ISTE Sponsored**

**One week**

**Induction / Refresher Program**

on

**“Artificial Intelligence and Machine Learning: Applications, Challenges and Opportunities”**

**9<sup>th</sup> to 15<sup>th</sup> February 2022**

Organized by

**Department of Computer Engineering  
PES's, Modern College of Engineering, Pune.**

**NAAC Accreditation with 'A' Grade**

**Affiliated to Savitribai Phule Pune  
University (SPPU)**



### About the Institute

PES's Modern college of Engineering was established in June 1999 under the guidance & leadership of visionary Chairman Prof. Dr. G. R. Ekbote. The institute is approved by AICTE, New Delhi, Directorate of Technical Education, and Government of Maharashtra & is affiliated to Savitribai Phule Pune University, Pune complying with all the norms & standards of Engineering Education. At present the institute conducts eight programs in Engineering viz. Mechanical, Electrical, Electronics & Telecommunication, Computer, Information Technology, AI & DS, AI & ML, and Electronics and Computer Engineering. The institute has Postgraduate Engineering programs in Electrical, Mechanical, Computer, E&TC, MBA & MCA courses. The Research center has been established for Mechanical, E&TC, Electrical & MBA.

- Institute has been accredited by NAAC with "A Grade".
- Institute has been awarded as the best college in urban area by SPPU, Pune in the year 2010 – 11.
- Electrical, E&TC and MCA programs are accredited by NBA, New Delhi.
- AICTE CII Gold rank for consecutive 2 years.
- Institute has been ranked 26-50th all over India by Atal Ranking of Institutions on Innovation Achievements (ARIIA).

#### Vision of the Institute

- To create a collaborative academic environment to foster professional excellence and ethical values.

#### Mission of the Institute

- To develop outstanding professionals with high ethical standards capable of creating and managing global enterprises.
- To foster innovation and research by providing a stimulating learning environment.
- To ensure equitable development of students of all ability levels and backgrounds.
- To be responsive to changes in technology, socio-economic and environmental conditions.
- To foster and maintain mutually beneficial partnerships with alumni and industry.

### About the Department

The Department of Computer Engineering, with intake capacity of 120 for UG program is committed to nurture its students to become highly skilled and proficient engineers. The Department also offers a two-year PG program in Computer Engineering. The department provides the required setup for research as a part of the education program. "We believe in Innovation and Perfection".

#### Vision of the Department:

- To achieve excellence in the field of computing through quality education.

#### Mission of Department:

- To develop promising professionals in the field of computing.
- To provide exposure to emerging technologies and inculcate ethics.
- To strengthen association with alumni and industry.

### About the Induction / Refresher Program

The 6 Days program will cover various aspects Artificial Intelligence and Machine Learning. This program aims to provide a concise introduction to the fundamental concepts in AI and ML including programming tools, packages, and popular ML algorithms. The participants will gain knowledge in ML principles through a lot of practical applications covering industrial case walk-through and real-time applications.

### Outcomes of the Induction / Refresher Program

- Participants will be able to understand the fundamental concepts of AI and ML including algorithms.
- Participants will be able to apply concepts of AI and ML in real time applications.
- Participants will get insight into research challenges of AI, ML and DL.
- Participants will be able to understand the National Education Policy – 2020.

### Contents of Induction / Refresher Program

- Introduction to AI, ML and Applications
- Machine Learning model: Decision tree
- Regression Analysis in Machine Learning
- AI, ML, DL - Research Challenges
- Ethics in AI
- ML Classifiers
- Decoding Industrial applications using ML and DL
- Hands on EDA and ML using Python
- Deep Learning and Applications
- Data Analytics for Pandemic - Covid 19: A Case Study
- Applications of Data Science in financial applications.
- Applications of Data Science in market analysis
- Overview of NLP: Issues, Challenges and Applications
- Awareness of National Education Policy - 2020
- Stress Management
- Deep Learning Research Challenges
- Reinforcement Learning

