



ANJUMAN-I-ISLAM'S

KALSEKAR TECHNICAL CAMPUS, NEW PANVEL

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Recognised by : Directorate of Technical Education, Govt. of Maharashtra, Affiliated to : University of Mumbai.

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

☒ SCHOOL OF ENGINEERING & TECHNOLOGY

☐ SCHOOL OF PHARMACY

☐ SCHOOL OF ARCHITECTURE

SHORT TERM TRAINING PROGRAM (STTP)

**School/Department: SoET Electrical & Computer Engineering
Department**

Title of the Program:	Bridging AI with Electrical and Electronics Engineering through Machine Learning
Type of Program:	6 Days Short Term Training Program (STTP)
Mode:	Online (ZOOM)
Dates:	5th January 2026 to 10th January 2026
Organised by:	Department of Electrical & Computer Engineering
Target audience:	Faculty Members / Students / Research Scholars
Number of Beneficiaries:	95
Technical Coordinators:	Prof. Diksha Bombe, Prof. Shraddha Sawant, Prof. Akshata Tadkod, Prof. Pritika Patil, Dr. Geeta Desai

DETAILS OF THE PROGRAM:

Introduction:

A Six Days Short Term Training Program (STTP) titled “Bridging AI with Electrical and Electronics Engineering through Machine Learning” was organized to provide participants with in-depth knowledge of Artificial Intelligence (AI) and Machine Learning (ML) techniques and their applications in Electrical and Electronics Engineering.

The program aimed to bridge the gap between traditional electrical engineering concepts and emerging AI-driven technologies through expert talks and hands-on training sessions.

Objectives of the Program:

- To introduce AI and ML concepts relevant to Electrical and Electronics Engineering
- To explore real-time applications of AI in power systems, healthcare, smart grids, and communication systems
- To provide hands-on exposure to machine learning tools and techniques
- To enhance research and industry-oriented skills among participants

Innovative Teaching - Exuberant Learning

Vision : To be the most sought after academic, research and practice based department of Electrical & Computer Engineering that others would wish to emulate.

Inauguration Ceremony

A Six-Day Short Term Training Programme (STTP) on “Bridging AI with Electrical and Electronics Engineering through Machine Learning” was successfully inaugurated at Anjuman-I-Islam’s Kalsekar Technical Campus (AIKTC). The programme was organized by the Department of Electrical & Computer Engineering and the Department of Electronics & Computer Science.

The Inauguration Ceremony commenced with the opening address by Dr. Ramjan Khatik, Director, Anjuman-I-Islam’s Kalsekar Technical Campus (AIKTC). In his address, he highlighted the importance of integrating Artificial Intelligence and Machine Learning with core engineering disciplines to meet current industry and research demands.

This was followed by an address by Dr. Rajendra B. Magar, Dean, School of Engineering & Technology (SOET), AIKTC, who emphasized the role of interdisciplinary approaches and skill-based training programs in enhancing the academic and professional competence of faculty and students.

The ceremony was further graced by the presence of the Chief Guest, Dr. Mukesh D. Patil, Principal, Ramrao Adik Institute of Technology (RAIT), Nerul. In his speech, he shared valuable insights on recent advancements in AI and Machine Learning and their growing applications in Electrical and Electronics Engineering.

An address was also delivered by Dr. Afzal Shaik, who provided academic perspectives on emerging technologies and encouraged participants to actively engage in research and innovation.

The formal inauguration of the STTP was carried out by Dr. Ramjan Khatik, Director, AIKTC, marking the official commencement of the six-day programme.

The programme concluded with a Vote of Thanks proposed by Prof. Bandanawaz Kotiyal, who expressed sincere gratitude to all dignitaries, organizers, speakers, and participants for their valuable support and cooperation in making the inauguration ceremony a success.



DAY -1(05/01/2026)

Session 1: AI-ML Techniques for Predictive Analysis of Data

Resource Person:

Dr. Sarika N. Zaware

Dean, IQAC & Professor

AISSMS Institute of Information Technology (IOIT),

Pune, Maharashtra, India

Session Overview:

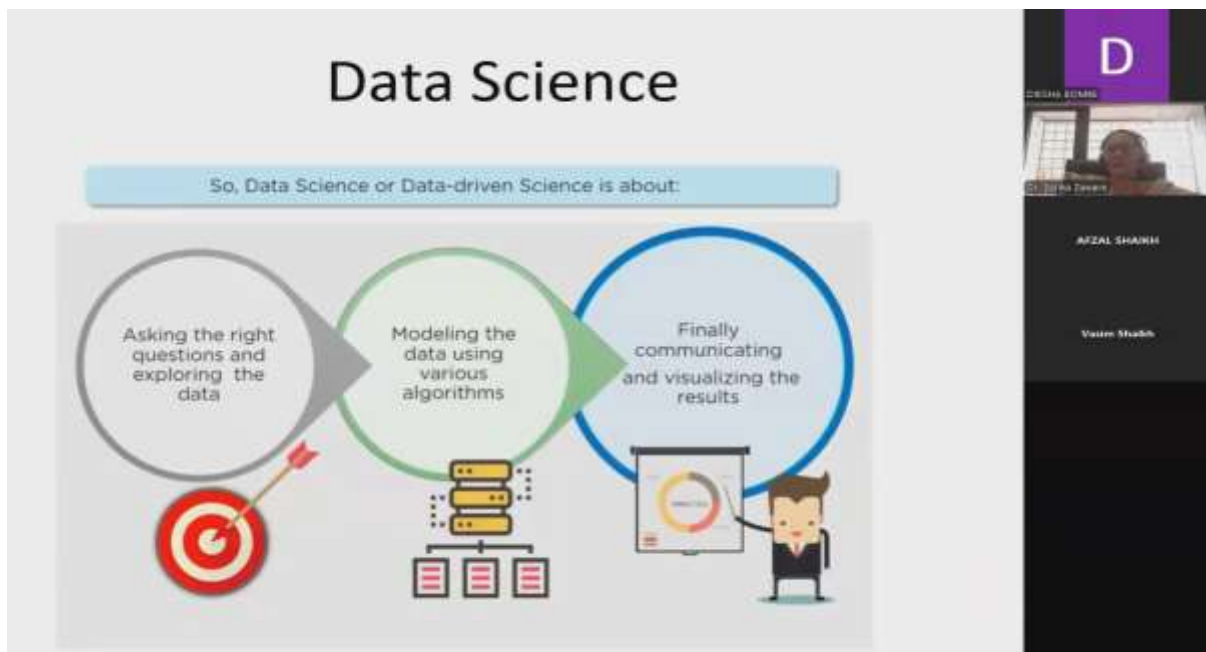
The first technical session of the Six-Day Short Term Training Programme (STTP) was conducted on the topic “AI-ML Techniques for Predictive Analysis of Data.” The session was delivered by Dr. Sarika N. Zaware, an eminent academician and expert in the field of Artificial Intelligence and Machine Learning.

Dr. Zaware began the session by introducing the fundamentals of predictive analytics and its significance in data-driven decision-making. She elaborated on various AI and Machine Learning techniques used for prediction, including regression models, classification algorithms, and basic ensemble methods. The session emphasized the importance of data

preprocessing, feature selection, and model evaluation for achieving accurate predictive results.

She further explained real-world applications of predictive analysis across domains such as engineering systems, healthcare, industry, and smart technologies, highlighting how AI-ML techniques can be effectively integrated with Electrical and Electronics Engineering applications.

The session was interactive, with discussions on practical challenges in implementing predictive models and best practices for improving model performance. Participants actively engaged in the session and gained valuable insights into the role of AI-ML in predictive data analysis.



Outcome of the Session:

The session provided participants with a strong conceptual foundation in predictive analytics using AI-ML techniques and enhanced their understanding of how these methods can be applied to solve real-world engineering problems.

Hands-on Session 1: Foundations of AI & ML for Electrical Engineers

Resource Person:

Mr. Shoeb Shaikh

Senior Automation Engineer

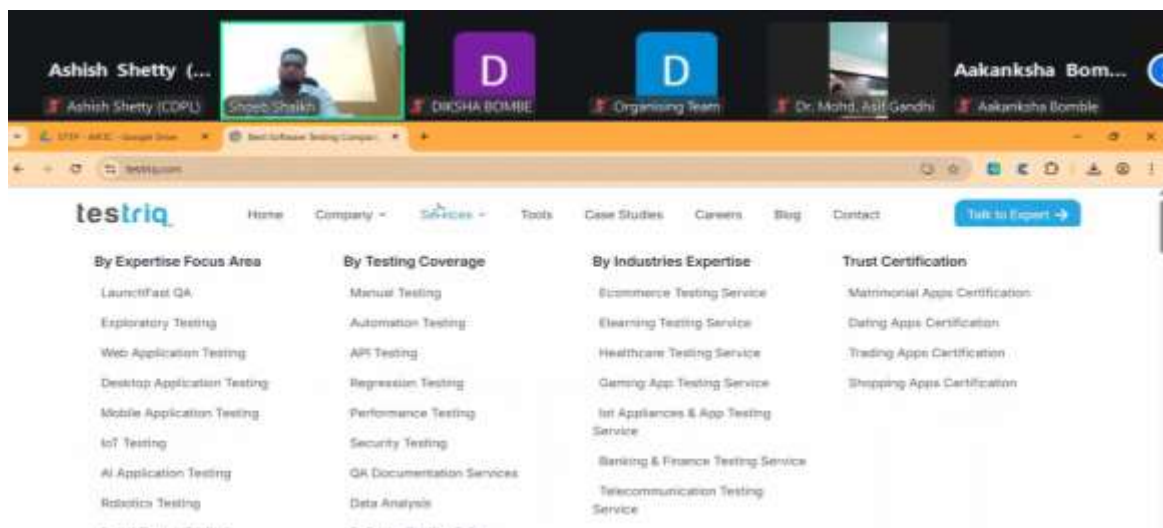
Testing QA Lab LLP, Cinute Digital Pvt. Ltd.

Session Overview:

The Hands-on Session 1 of the Six-Day Short Term Training Programme (STTP) was conducted on the topic “Foundations of AI & ML for Electrical Engineers.” The session was led by Mr. Shoeb Shaikh, an industry professional with expertise in automation, testing, and applied Artificial Intelligence.

The session focused on introducing the core concepts of Artificial Intelligence and Machine Learning from an Electrical Engineering perspective. Mr. Shaikh explained the relevance of AI-ML techniques in electrical systems, automation, and smart engineering applications. Emphasis was placed on understanding how data-driven models can enhance system performance, fault detection, and predictive maintenance.

The hands-on component of the session included practical demonstrations and exercises covering basic data handling, model building, and evaluation techniques. Participants were guided through simple implementations of ML algorithms and were encouraged to explore real-time engineering use cases.



The interactive nature of the session enabled participants to clarify doubts and gain practical exposure to AI-ML tools and workflows relevant to Electrical Engineering applications.

Outcome of the Session:

The session successfully strengthened participants' foundational understanding of AI and ML concepts and equipped them with practical insights into applying these techniques in electrical engineering and automation-based problems.

DAY-2(06/01/2026)

Session 2: Real-Time Innovation in Healthcare Devices and Integration with Machine Learning

Resource Person:

Dr. Preeta Sharan

Professor & Dean (Research & Development)

The Oxford College of Engineering,

Bengaluru, Karnataka, India

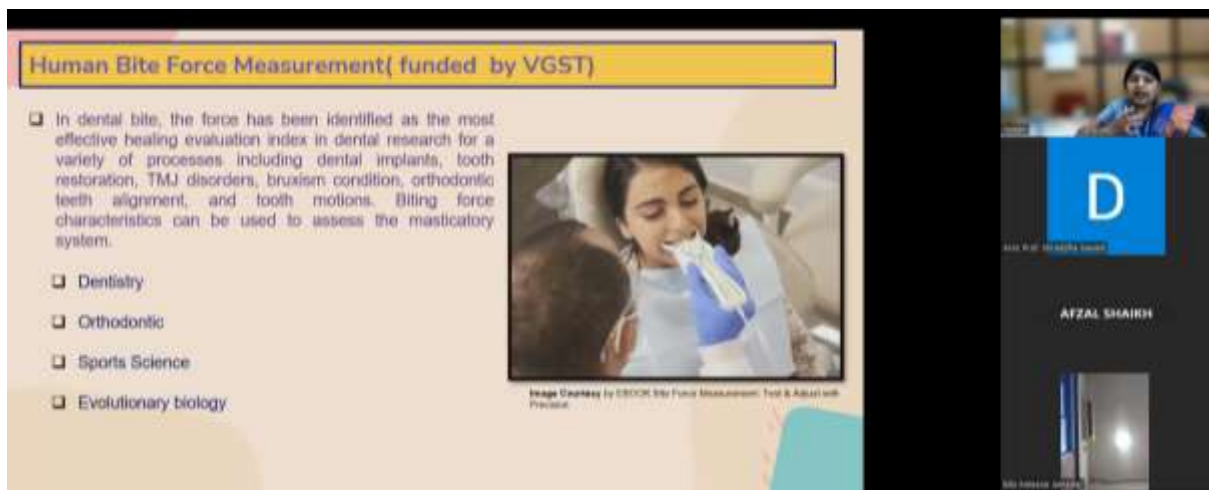
Session Overview:

The second technical session of the Six-Day Short Term Training Programme (STTP) was conducted on the topic "Real-Time Innovation in Healthcare Devices and Integration with Machine Learning." The session was delivered by Dr. Preeta Sharan, an accomplished academician and researcher in the domain of healthcare technologies and intelligent systems.

Dr. Sharan highlighted recent innovations in healthcare devices and explained how Machine Learning techniques are being integrated into real-time medical systems for improved diagnosis, monitoring, and decision support. The session covered the role of sensors, data acquisition, signal processing, and ML-based analytics in modern healthcare solutions.

She also discussed practical case studies involving smart medical devices, wearable health monitoring systems, and predictive healthcare models, emphasizing their relevance to Electrical and Electronics Engineering. The challenges associated with real-time data handling, model accuracy, and system reliability were also addressed.

The session was informative and interactive, encouraging participants to explore interdisciplinary research opportunities at the intersection of engineering, healthcare, and artificial intelligence.



Outcome of the Session:

The session enhanced participants' understanding of real-time healthcare innovations and provided valuable insights into the application of Machine Learning techniques in the development of intelligent healthcare devices.

Hands-on Session 2: Data Handling & Pre-Processing for Electrical Data

Resource Person:

Mr. Shoeb Shaikh

Senior Automation Engineer

Testing QA Lab LLP, Cinute Digital Pvt. Ltd.

Session Overview:

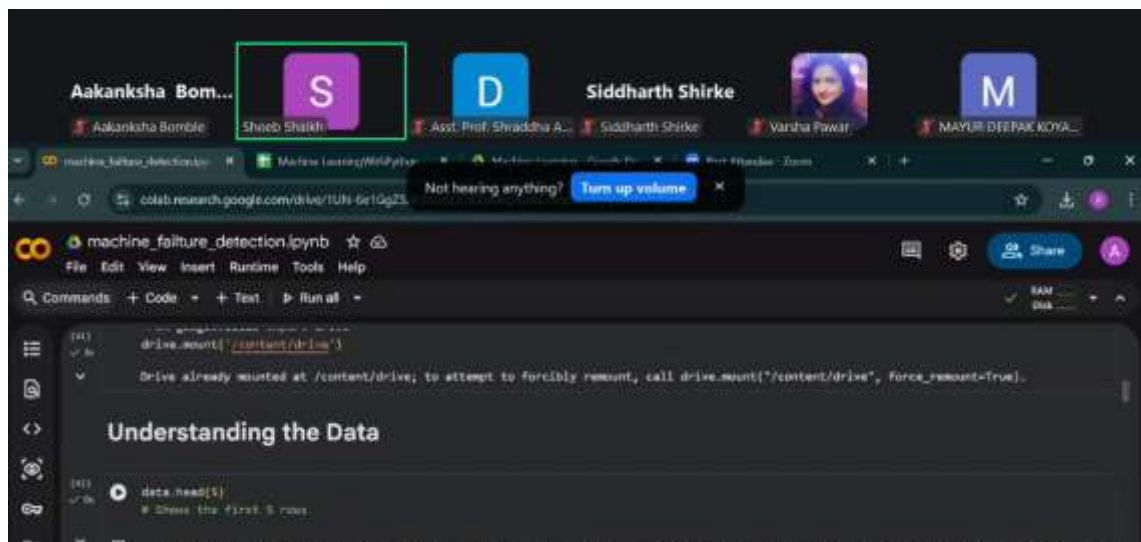
The Hands-on Session 2 of the Six-Day Short Term Training Programme (STTP) was conducted on the topic "Data Handling & Pre-Processing for Electrical Data." The session

was facilitated by Mr. Shoeb Shaikh, who brought strong industry-oriented insights into data preparation and automation practices.

The session focused on the importance of data quality and preprocessing as a critical step in Machine Learning workflows. Mr. Shaikh explained various techniques for handling electrical and sensor-based data, including data cleaning, normalization, handling missing values, noise reduction, and feature extraction.

Participants were guided through practical demonstrations involving real-time electrical datasets, where they learned how to organize, preprocess, and prepare data for further AI-ML model development. Emphasis was placed on preprocessing challenges specific to electrical measurements, time-series data, and automation systems.

The session was highly interactive, enabling participants to gain hands-on experience with data handling tools and best practices essential for building reliable Machine Learning models.



Outcome of the Session:

The session equipped participants with practical skills in handling and preprocessing electrical data, strengthening their ability to develop accurate and efficient AI-ML models for real-world engineering applications.

DAY-3(07/01/2026)

Session 3: Importance of AI in Protecting Power Systems during Energy Transition

Resource Person:

Dr. Subhadeep Paladhi

Assistant Professor

Department of Electrical Engineering,

Indian Institute of Technology (IIT) Indore,

Madhya Pradesh, India

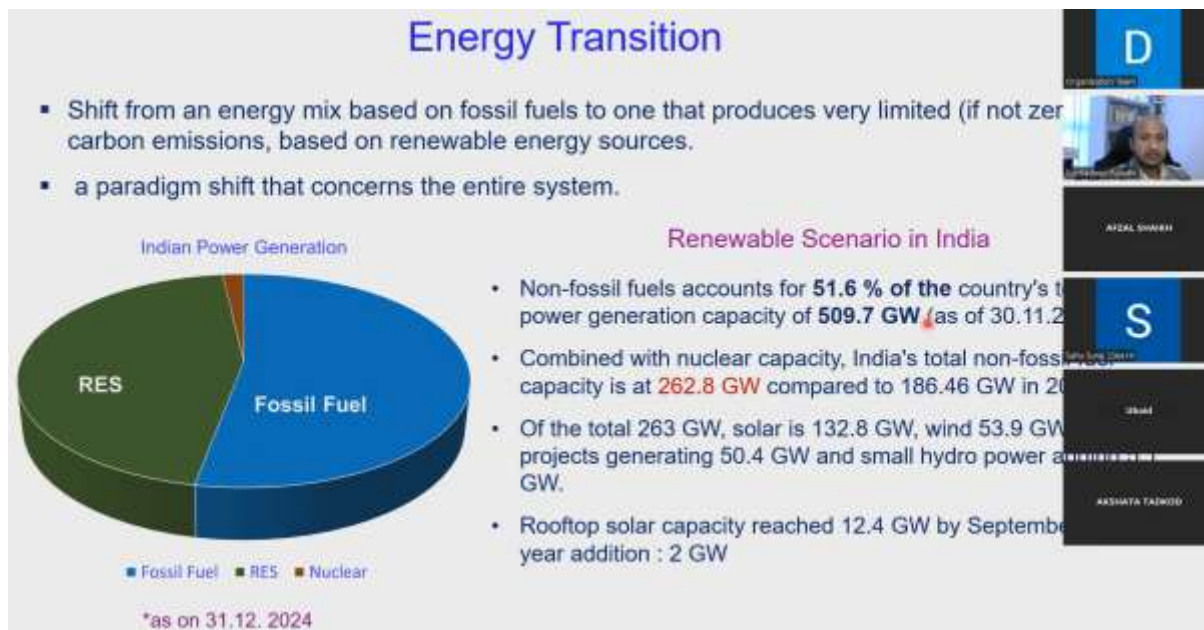
Session Overview:

The third technical session of the Six-Day Short Term Training Programme (STTP) was conducted on the topic “Importance of AI in Protecting Power Systems during Energy Transition.” The session was delivered by Dr. Subhadeep Paladhi, an expert in power systems and intelligent protection techniques.

Dr. Paladhi emphasized the challenges faced by modern power systems during the ongoing energy transition, particularly due to the integration of renewable energy sources, distributed generation, and smart grids. He explained how Artificial Intelligence techniques play a crucial role in enhancing the protection, reliability, and stability of power systems.

The session covered AI-based approaches for fault detection, protection coordination, condition monitoring, and predictive maintenance in power networks. Practical examples and research insights were shared to demonstrate how Machine Learning algorithms can improve system response and reduce downtime during abnormal operating conditions.

Participants gained valuable understanding of the application of AI in safeguarding power systems and addressing the complexities associated with evolving energy infrastructures.



Outcome of the Session:

The session enhanced participants' knowledge of AI-driven protection strategies in power systems and highlighted the significance of intelligent techniques in ensuring secure and resilient energy systems during the transition towards sustainable power generation.

Hands-on Session 3: Supervised Learning for Electrical Applications

Resource Person:

Ms. Aakansha Bomble

Senior Automation Engineer

Testing QA Lab LLP, Cinute Digital Pvt. Ltd.

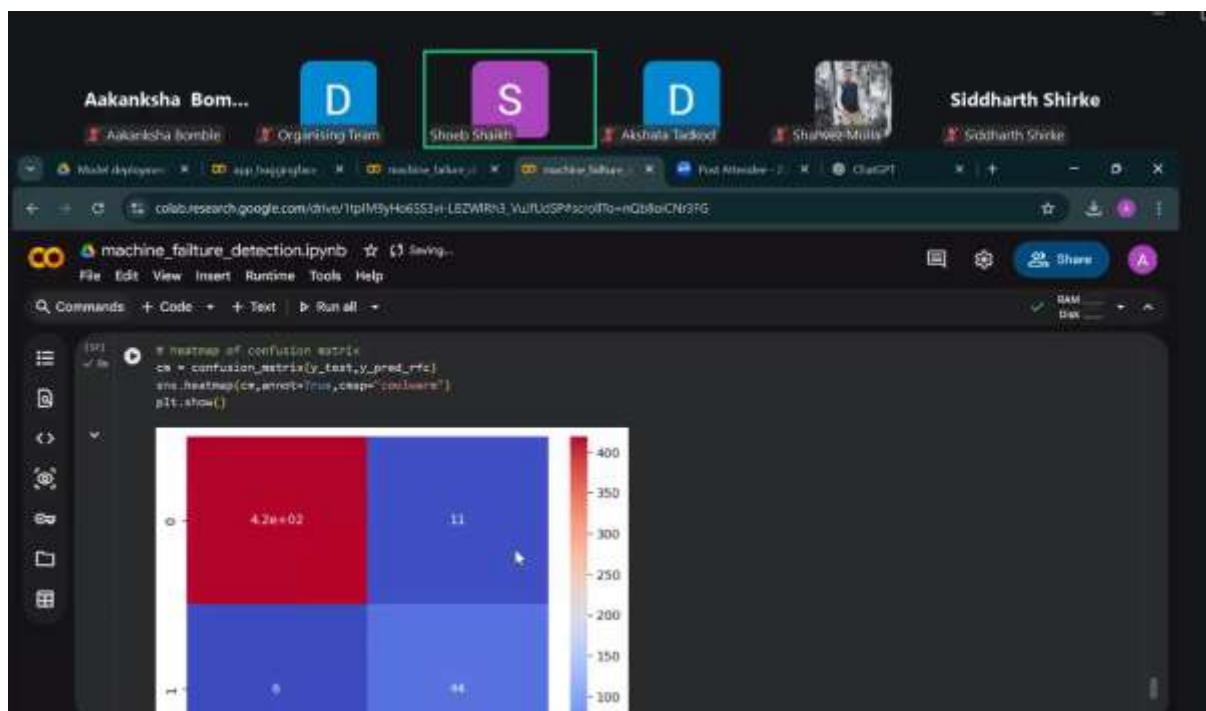
Session Overview:

The Hands-on Session 3 of the Six-Day Short Term Training Programme (STTP) was conducted on the topic "Supervised Learning for Electrical Applications." The session was facilitated by Ms. Aakansha Bomble, who shared industry-oriented insights into the practical application of Machine Learning techniques in electrical engineering domains.

The session focused on the fundamentals of supervised learning, including classification and regression techniques, and their relevance to electrical applications such as fault classification, load forecasting, condition monitoring, and predictive maintenance. Participants were introduced to commonly used supervised learning algorithms and evaluation metrics.

Through practical demonstrations and guided exercises, participants gained hands-on experience in implementing supervised learning models using electrical datasets. Emphasis was placed on model training, testing, validation, and performance evaluation, enabling participants to understand end-to-end supervised learning workflows.

The interactive nature of the session encouraged active participation and clarified practical challenges encountered while applying Machine Learning techniques.



Outcome of the Session:

The session strengthened participants' practical understanding of supervised learning methods and enabled them to apply Machine Learning techniques effectively to solve electrical engineering problems.

Day – 4(08/01/2026)

Session 4: Neural Networks and Deep Learning

Resource Person:

Mr. Husain Amreliwala
Senior Consultant
Capgemini

Session Overview:

The fourth technical session of the Six-Day Short Term Training Programme (STTP) was conducted on the topic “Neural Networks and Deep Learning.” The session was delivered by Mr. Husain Amreliwala, a seasoned industry professional with expertise in advanced Machine Learning and Deep Learning applications.

The session provided an in-depth understanding of artificial neural networks, their architecture, and learning mechanisms. Mr. Amreliwala explained key concepts such as perceptrons, multilayer neural networks, activation functions, backpropagation, and optimization techniques. He further introduced participants to Deep Learning models, highlighting their advantages in handling complex and large-scale data.

Real-world applications of Neural Networks and Deep Learning in areas such as image processing, signal analysis, predictive systems, and intelligent automation were discussed, with particular relevance to Electrical and Electronics Engineering. The session included conceptual explanations supported by practical insights from industry use cases.

Participants actively engaged in the session, gaining clarity on the potential of deep learning techniques in solving complex engineering problems.



Outcome of the Session:

The session enhanced participants' conceptual understanding of Neural Networks and Deep Learning and provided valuable insights into their applications in real-world engineering and industry scenarios.

Session 5: Role of AI in 5G**Resource Person:**

Dr. Nafees Ahmed M. Kazi

Associate Professor

SSBT's College of Engineering & Technology

Session Overview:

The fifth technical session of the Six-Day Short Term Training Programme (STTP) was conducted on the topic "Role of AI in 5G." The session was delivered by Dr. Nafees Ahmed M. Kazi, an academic expert in wireless communication and intelligent systems.

Dr. Kazi explained the evolution of 5G communication systems and highlighted the critical role played by Artificial Intelligence in enhancing network performance, efficiency, and reliability. The session covered AI-driven techniques for resource allocation, traffic management, network optimization, latency reduction, and fault prediction in 5G networks.

He also discussed the integration of AI with emerging technologies such as IoT, edge computing, and smart communication infrastructures, emphasizing their relevance to Electrical and Electronics Engineering. Practical insights and research perspectives were shared to demonstrate how AI enables intelligent decision-making in next-generation wireless networks.

The session encouraged active interaction, enabling participants to understand both theoretical and practical aspects of AI-enabled 5G systems.

1G (First Generation) Mobile Technology



- ▶ First generation of wireless telephone technology. Emerged in the **1980s**.
- ▶ **AMPS**(Advanced Mobile phone Service) was first launched 1G mobile technology systems in USA.
- ▶ Its Speed was up to **2.4** kbps.
- ▶ 1G network use **Analog** Signal.
- ▶ **FDMA**(permits individual allocation of single or multiple frequency bands or channels to the users.

Outcome of the Session:

The session enhanced participants' understanding of the role of AI in modern wireless communication systems and provided valuable insights into AI-driven solutions for 5G network challenges.

Hands-on Session 4: Neural Networks and Deep Learning

Resource Person:

Mr. Husain Amreliwala

Senior Consultant

Capgemini

Session Overview:

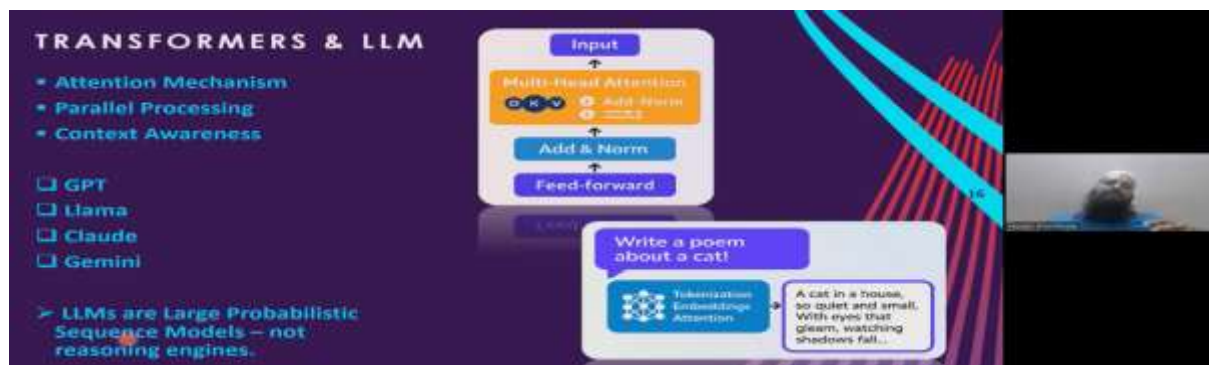
The Hands-on Session 4 of the Six-Day Short Term Training Programme (STTP) was conducted on the topic “Neural Networks and Deep Learning.” The session was facilitated by Mr. Husain Amreliwala, who brought rich industry experience in implementing advanced Artificial Intelligence solutions.

The session focused on providing practical exposure to neural network architectures and deep learning models. Mr. Amreliwala guided participants through hands-on

demonstrations involving multilayer perceptrons, training of neural networks, and basic deep learning workflows. Emphasis was placed on understanding data flow, model training, tuning, and evaluation.

Participants were introduced to real-world use cases of deep learning in signal processing, pattern recognition, predictive analytics, and intelligent automation, particularly relevant to Electrical and Electronics Engineering applications. The interactive exercises enabled participants to translate theoretical concepts into practical implementations.

The session encouraged active participation and problem-solving, helping participants gain confidence in applying Neural Networks and Deep Learning techniques to engineering challenges.



Outcome of the Session:

The session strengthened participants' practical understanding of Neural Networks and Deep Learning and enabled them to apply deep learning techniques effectively in real-world electrical and electronics engineering applications.

Day 5 – Friday (09/01/2026)

Session 6: ANN Applications in Modelling and Control

Resource Person:

Dr. Mukesh D. Patil

Principal

Ramrao Adik Institute of Technology (RAIT),

Navi Mumbai, India

Session Overview:

The sixth technical session of the Six-Day Short Term Training Programme (STTP) was conducted on Day 5 – Friday (09/01/2026) on the topic “ANN Applications in Modelling and Control.” The session was delivered by Dr. Mukesh D. Patil, a distinguished academician with extensive expertise in control systems and intelligent engineering applications.

Dr. Patil elaborated on the role of Artificial Neural Networks (ANNs) in system modelling and control, particularly for complex and nonlinear systems where conventional mathematical models face limitations. He explained various ANN architectures used in modelling, identification, and adaptive control strategies.

The session highlighted practical applications of ANN-based control in power systems, industrial automation, robotics, and electrical drives. Case studies and examples were discussed to demonstrate how ANN techniques improve system accuracy, adaptability, and performance.

Participants actively engaged in discussions, gaining deeper insights into the integration of ANN techniques with modern control systems in Electrical and Electronics Engineering.

Why modelling of a system is important

- A mathematical model is quick and easy to obtain and use.
- It can simplify a more complex physical system/situation.
- It can help us improve our understanding of the real world system as certain variables can readily be changed.
- It enables predictions to be made.
- It can help provide control - as in aircraft scheduling.

Outcome of the Session:

The session enhanced participants' understanding of ANN-based modelling and control

techniques and provided valuable insights into their real-time applications in advanced electrical and control engineering systems.

Session 7: AI-Based Optimization Techniques for Process Control Systems

Resource Person:

Dr. Hafiz Minhajaddin Shaikh

Assistant Professor

Department of Electrical Engineering,

VPKBIET, Baramati, India

Session Overview:

The seventh technical session of the Six-Day Short Term Training Programme (STTP) was conducted on the topic “AI-Based Optimization Techniques for Process Control Systems.” The session was delivered by Dr. Hafiz Minhajaddin Shaikh, an academic expert in process control and intelligent optimization methods.

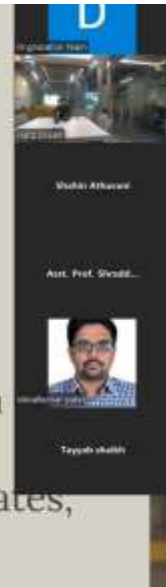
Dr. Shaikh discussed the limitations of conventional optimization approaches in complex and nonlinear process control systems and highlighted the advantages of Artificial Intelligence-based optimization techniques. The session covered various AI-driven methods such as genetic algorithms, particle swarm optimization, fuzzy logic-based optimization, and hybrid AI techniques for improving control system performance.

He explained the application of these optimization techniques in industrial process control, power systems, automation, and manufacturing systems, emphasizing improved efficiency, robustness, and adaptability. Practical examples and research insights were shared to help participants understand real-time implementation challenges.

The session was interactive and encouraged participants to explore advanced AI-based optimization strategies for solving real-world control and electrical engineering problems.

Actuators: The Hands of the System

Actuators are devices that carry out the commands from controllers by manipulating process variables. They can adjust valve positions, control motor speeds, and flow rates, thereby directly influencing the process.



Outcome of the Session:

The session enhanced participants' understanding of AI-based optimization techniques and their application in process control systems, equipping them with knowledge to design efficient and intelligent control solutions.

Hands-on Session 5: Machine Learning Applications for Smart Energy Management Systems

Resource Person:

Dr. Mohd Adil Shaikh

Ph.D., VJTI

Department of Electrical Engineering

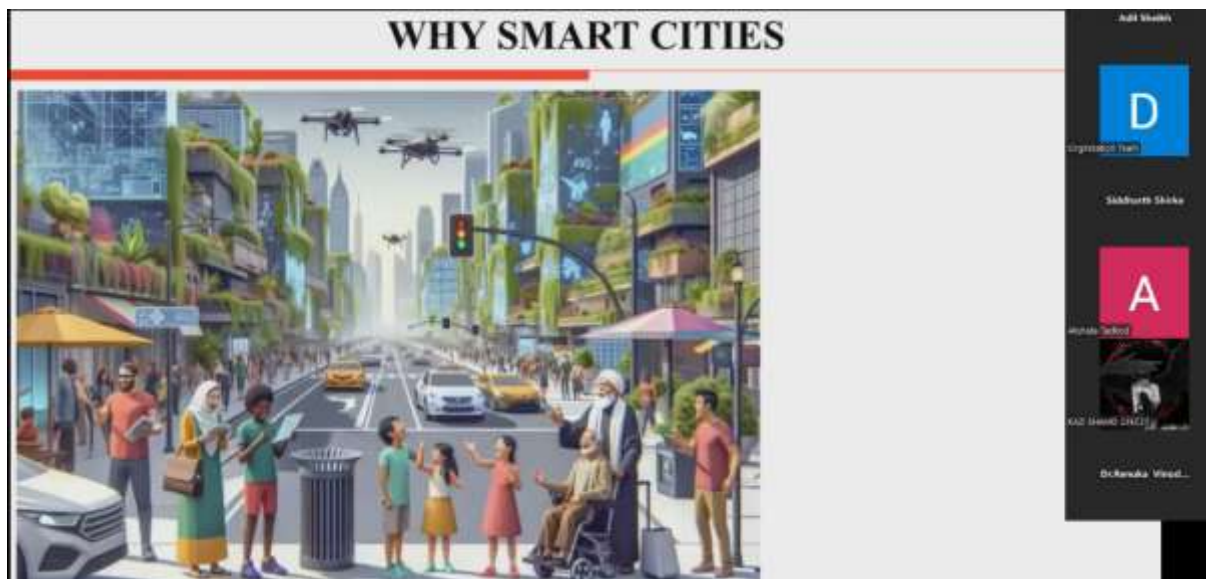
Session Overview:

The Hands-on Session 5 of the Six-Day Short Term Training Programme (STTP) was conducted on the topic "Machine Learning Applications for Smart Energy Management Systems." The session was facilitated by Dr. Mohd Adil Shaikh, an expert in smart energy systems and intelligent power management.

The session focused on the application of Machine Learning techniques in the design and operation of Smart Energy Management Systems (SEMS). Dr. Shaikh explained how ML

algorithms are used for energy consumption forecasting, load management, demand-side optimization, fault detection, and energy efficiency improvement.

Participants were provided with practical exposure to smart energy datasets and were guided through hands-on exercises involving data analysis, model development, and performance evaluation for energy management applications. Emphasis was placed on integrating ML models with real-time energy monitoring systems.



The session enabled participants to understand how intelligent algorithms can support sustainable energy solutions and improve the reliability and efficiency of modern power systems.

Outcome of the Session:

The session enhanced participants' practical understanding of Machine Learning applications in smart energy management and equipped them with skills to develop AI-driven solutions for energy optimization.

Day 6 – Saturday (10/01/2026)

Session 8: Beyond Generative AI – Towards Next-Generation AI Agents & Agentic Intelligence

Resource Person:

Dr. Vivek Devidas Patil

Assistant Professor

Department of Computer Engineering,

Vishwakarma Institute of Technology (VIT),

Pune, Maharashtra, India

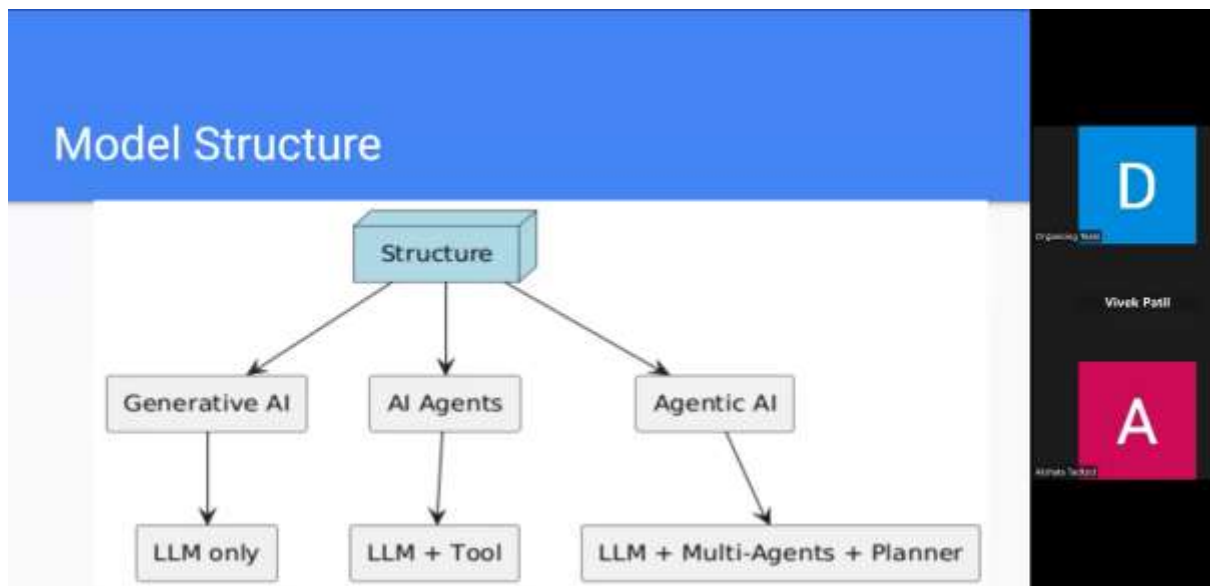
Session Overview:

The eighth technical session of the Six-Day Short Term Training Programme (STTP) was conducted on Day 6 – Saturday (10/01/2026) on the topic “Beyond Generative AI: Towards Next-Generation AI Agents & Agentic Intelligence.” The session was delivered by Dr. Vivek Devidas Patil, an academician with expertise in advanced Artificial Intelligence and intelligent agent systems.

Dr. Patil introduced participants to the evolution of Artificial Intelligence beyond generative models and discussed the concept of AI agents and agentic intelligence. The session covered the architecture, decision-making mechanisms, autonomy, and learning capabilities of next-generation AI agents.

He explained how agentic systems enable goal-driven behavior, adaptability, and collaboration in complex environments, with applications spanning smart systems, automation, cyber-physical systems, and intelligent control frameworks. The relevance of these advanced AI concepts to Electrical, Electronics, and Computer Engineering domains was also emphasized.

The session encouraged active discussions on the future of AI, ethical considerations, and interdisciplinary research opportunities in intelligent agent-based systems.



Outcome of the Session:

The session provided participants with insights into emerging AI paradigms beyond generative models and enhanced their understanding of next-generation AI agents and agentic intelligence.

Session 9: Cyber Security in Smart Grid Systems

Resource Person:

Dr. Faruk Kazi

Director, Research Development Cell, University of Mumbai
& Professor, Veermata Jijabai Technological Institute (VJTI),
Mumbai, Maharashtra, India

Session Overview:

The ninth technical session of the Six-Day Short Term Training Programme (STTP) was conducted on the topic “Cyber Security in Smart Grid Systems.” The session was delivered by Dr. Faruk Kazi, a renowned academician and expert in smart grids and cyber-physical system security.

Dr. Kazi emphasized the growing importance of cyber security in modern smart grid infrastructures, especially with increased digitization, automation, and integration of

renewable energy sources. He discussed potential cyber threats, vulnerabilities, and attack vectors affecting smart grid communication and control systems.

The session covered key cyber security concepts such as secure communication protocols, intrusion detection systems, data integrity, authentication mechanisms, and resilience strategies for smart grids. Practical examples and case studies were presented to highlight real-world cyber incidents and mitigation techniques.

Participants gained valuable insights into safeguarding smart grid systems against cyber threats and understanding the role of AI and advanced analytics in enhancing grid security.



Outcome of the Session:

The session enhanced participants' awareness of cyber security challenges in smart grid systems and equipped them with knowledge of strategies to ensure secure, reliable, and resilient power networks.

Valedictory Session:

The Valedictory Session of the Six-Day Short Term Training Programme (STTP) on "Bridging AI with Electrical and Electronics Engineering through Machine Learning" was conducted successfully, marking the conclusion of an enriching and insightful academic programme.

The STTP was organized by the Department of Electrical & Computer Engineering and the Department of Electronics & Computer Science, Anjuman-I-Islam's Kalsekar Technical

Campus (AIKTC). The programme was conducted under the guidance and support of the esteemed Patrons and Mentors:

- **Mr. Burhan Harris**
Honourable Executive Chairman, BINM, AI
- **Dr. Ramjan Khatik**
Director, Anjuman-I-Islam's Kalsekar Technical Campus (AIKTC)
- **Dr. Rajendra B. Magar**
Dean, School of Engineering & Technology (SOET), AIKTC

The **Valedictory Session** was graced by the presence of the **Chief Guest, Dr. Bhupesh Kumar Singh,**

Deputy Director, Amity School of Engineering and Technology, who addressed the participants and highlighted the importance of interdisciplinary learning, innovation, and the role of Artificial Intelligence in shaping future engineering solutions.

The programme was convened under the leadership of **Dr. Afzal Shaikh,** Head of the Department, Electronics & Computer Engineering, Programme Convenor, who emphasized the successful execution and academic outcomes of the STTP.

During the session, **feedback was shared by participating faculty members and students,** who expressed their appreciation for the well-structured sessions, expert lectures, and hands-on training provided throughout the six days. Participants acknowledged that the programme significantly enhanced their understanding of AI and Machine Learning applications in Electrical and Electronics Engineering.

The session also witnessed the gracious presence of the **Office Bearers of AIKTC,** including:

- **Dr. Zahir I. Kazi**
Honourable President, Anjuman-I-Islam, Mumbai
- **Dr. Mushtaq Antulay**
Honourable Senior Vice President, AIKTC

- **Dr. Abdullah Shaikh**
Honourable Vice President, AIKTC
- **Mr. Moiz Miyajiwala**
Honourable Vice President, AIKTC
- **CA. Shakil Shaikh**
Honourable Treasurer, AIKTC
- **Mr. Aqeel Hafiz**
Honourable General Secretary, AIKTC
- **Mr. Shoaib Jamkhanawala**
Honourable Joint Secretary, AIKTC
- **Mr. Shohab Rais**
Honourable Joint Secretary, AIKTC

The Vote of Thanks was proposed, expressing sincere gratitude to all dignitaries, resource persons, organizers, coordinators, and participants for their valuable contributions and support, which ensured the grand success of the STTP.

The Valedictory Session concluded on a positive note, reaffirming the institution's commitment to promoting advanced learning, interdisciplinary research, and industry-relevant skill development.



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DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

Outcome of the Program:

- Participants gained in-depth knowledge of AI and ML applications in Electrical Engineering
- Enhanced understanding of real-time and industry-relevant use cases
- Hands-on exposure strengthened practical and analytical skills
- Encouraged interdisciplinary research and innovation

Key Takeaways:

- Developed a strong understanding of AI and Machine Learning fundamentals and their integration with Electrical and Electronics Engineering applications.
- Gained practical experience in data preprocessing, predictive analysis, supervised learning, and deep learning techniques through hands-on sessions.
- Understood real-world applications of AI in power systems, smart energy management, healthcare devices, and 5G communication systems.
- Learned the role of ANN and AI-based optimization techniques in modelling, control, and process automation.
- Acquired insights into emerging AI trends, agentic intelligence, and cyber security in smart grid systems

Conclusion:

The Six Days Short Term Training Program successfully provided a comprehensive understanding of Artificial Intelligence and Machine Learning concepts tailored for Electrical and Electronics Engineering applications. The blend of expert lectures and hands-on sessions made the program highly effective and beneficial for participants.


Dr. Afzal Shaikh
HOD, ECE


Dr. Rajendra B. Magar
Dean, AIKTC-SoET


Dr. Ramjan Khatik
Director, AIKTC

Innovative Teaching - Exuberant Learning

Vision : To be the most sought after academic, research and practice based department of Electrical & Computer Engineering that others would wish to emulate.

Sr. No.	Title	Name of the participant	Designation of the participant
1	Mr.	Shahvez Mulla	Student
2	Mr.	Mohammed Hassaan Faiz Ahmed Mulla	Lecture
3	Mr.	Shoeb Shahid Khan	Student
4	Ms.	Asiya Sarafraz Patel	Student
5	Mr.	Khan Mohammed Ruman Riyaz	Student
6	Prof.	Shradha Ajinkya Kumawat	Assistant Profesoos
7	Dr.	Renuka Vinod Chimankare	Assistant Profesoos
8	Prof.	Misbah	Lecture
9	Mr.	Arbaz kadar khan	Student
10	Prof.	Anojkumar Yadav	Assistant Profesoos
11	Prof.	Akshata Tadkod	Assistant Profesoos
12	Prof.	Gnanasekaran A.	Assistant Profesoos
13	Ms.	Sadiya Shaikh	Student
14	Prof.	Shraddha Sawant	Assistant Profesoos
15	Ms.	Arsin Anis Dapolkar	Student
16	Ms.	Anam Ansar Khan	Student
17	Mr.	Kazi Shahid	Student
18	Prof.	Pritika Nilesh Patil	Assistant Profesoos
19	Mr.	Shaikh Mohammed Aamir Abdul Jabbar	Student
20	Prof.	Awij Alam Ramjan Shaikh	Assistant Profesoos
21	Mr.	Suraj Ramchandra sahu	Lecture
22	Prof.	Asokan Selvaraj	Assistant Profesoos
23	Prof.	Umar Innusali Masumdar	Assistant Profesoos
24	Prof.	Vrushali Ganesh Sonawane	Assistant Profesoos
25	Mr.	Mayur Deepak Koyande	Student
26	Prof.	Sheeba Naaz Mohd Aasif Ansari	Assistant Profesoos
27	Mr.	Shaikh Vasim Nabib	Student
28	Prof.	Feiroz Fakir Ahmed Shaikh	Assistant Profesoos
29	Prof.	Muhammed Ismaeel Shaikh	Assistant Profesoos
30	Prof.	Shagufta Baseer	Assistant Profesoos
31	Dr.	Geeta Tushar Desai	Associate professor
32	Dr.	L.Sujihelen	Associate professor
33	Ms.	Naziya Riyaz Choudhary	Lab assistant
34	Mr.	Mohammed Tayyab parvez alam	Lab assistant
35	Prof.	Samreen Banu Kazi	Assistant Profesoos
36	Mr.	Shaikh anas Ahmed	Student
37	Prof.	Shahegul Afroz	Assistant Profesoos
38	Prof.	Mohsin khan	Assistant Profesoos
39	Mr.	Ansari Ahmed Hasan Mushtaque Ahme	Student
40	Dr.	Faimida Sayyad	Assistant Profesoos
41	Prof.	Anwar Ismail Patel	Lecture
42	Prof.	Minhaj Mansoor Pangarkar	Lecture
43	Mr.	P Divyanshu Reddy	Student
44	Mr.	Aatif shaikh	Student
45	Mr.	Hanif Abdul Gani Bronkar	Lab Assistant
46	Prof.	Saima Sayyed	Assistant Profesoos

47 Prof.	Malik Sadaf Allauddin	Assistant Profesoor
48 Prof.	Sandeep Matey	Assistant Profesoor
49 Prof.	Dipika Rajan Pawar	Lecture
50 Mr.	Sharik Ahmed Inamdar	LAB ASSISTANT
51 Mr.	Ansari salman	Lab instructor
52 Prof.	Nuzhatunnisa Muzaffaruddin Naveed	Lecture
53 Mr.	K Mohammed Liyan	Student
54 Mr.	Shaikh waris abrar	Student
55 Mr.	Sahil Abdul Kalam Khan	Lecture
56 Dr.	Salim G. Shaikh	Associate professor
57 Mr.	Noman Arshad Ali Quireshi	student
58 Prof.	Vatsalkumar Patel	Assistant Profesoor
59 Ms.	Tuba sayed	student
60 Mr.	Abdul Aziz Habib Shaikh	Lecture
61 Mr.	Alok Ramteke	Lecture
62 Mr.	Ayush Prasad Kadam	Lecture
63 Dr.	Varsha Pawar	Associate professor
64 Mr.	Shaikh Mohd Mohd Zahid	Student
65 Ms.	Humera Shaikh	Alumni
66 Prof.	Aniruddha Ray	Assistant Profesoor
67 Ms.	Sanika Bajirao patil	Student
68 Mr.	Manas Bhise	Student
69 Mr.	Omkar Bhagwat Bali	Student
70 Mr.	Vanshika Gajanan Dhoke	Student
71 Ms.	Anandi Anil Borhade	Student
72 Mr.	Ubaid Usman Amberkar	Student
73 Mr.	Aryan Narayan Budhavale	Student
74 Ms.	Yashashvi Suhas Jadhav	Student
75 Prof.	Shaikh Sameer Rafik	Assistant Profesoor
76 Mr.	Uvesh Sipai	Research Scholar
77 Dr.	Ramjan A Khatik	Professor
78 Ms.	Afifa shaikh	Teaching Assistant
79 Prof.	Siddharth Ganpat Shirke	Lecture
80 Prof.	Heenali Vasudev Korgaonkar	Assistant Profesoor
81 Prof.	Diksha Arun Bombe	Assistant Profesoor
82 Ms.	Mariyam Shamim Ahmed Shaikh	Student
83 Prof.	Nusrat Jahan	Assistant Profesoor
84 Mr.	Shaikh Zulkhairnain farman ali	Student
85 Mr.	Maaz Aslam Chogle	student
86 Prof.	Atul Arun Kale	Research Student
87 Prof.	Kirti Rahul Thakur	Assistant Profesoor
88 Ms.	Alfiya Ansari Nafees Ahmed	Student
89 Mr.	Vivek Arvind Tiwari	Electro technical officer
90 Dr.	Mohd. Asif Gandhi	Associate professor
91 Prof.	Alapati Naga Sai Krishna Kishore	Lecture
92 Prof.	Bandanawaz Kotiyal	Assistant Profesoor
93 Prof.	Sayali Karmode	Assistant Profesoor

94 Prof.	Shahin Athavani	Assistant Profesoor
95 Prof.	Vrushali Pankaj Thakur	Assistant Profesoor



29 January 2026

Feedback Analysis and Action Plan

This report presents the feedback analysis, action taken, and impact assessment of the Short-Term Training Program (STTP) titled ***“Bridging AI with Electrical and Electronics Engineering through Machine Learning.”*** The program was organized with the objective of enhancing faculty competence in emerging AI and machine learning techniques and their applications in Electrical and Electronics Engineering. Feedback was collected from participants using a structured questionnaire on a five-point Likert scale to evaluate various aspects such as content relevance, resource persons, delivery methodology, assessment, and administrative support. The analysis of the feedback provides valuable insights into the effectiveness of the program, areas of strength, and opportunities for improvement, thereby supporting continuous quality enhancement in academic and professional development initiatives.

FEEDBACK ANALYSIS OF STTP

Title: *Bridging AI with Electrical and Electronics Engineering through Machine Learning*

Overall Response Summary

- **Total responses:** 62
- **Rating scale:** 5-point Likert scale
- **Overall average rating:** $\approx 4.40 / 5$

Sr. No.	Details	Parameter	Average Rating	Inference
1	Content of the Workshop	Content was comprehensive	4.42	Participants strongly appreciated the depth, relevance, and structure of the technical content, especially the integration of AI & ML with EEE applications .
		Content was not repetitive	4.39	
		Overall content was excellent	4.52	
2	Trainers and Teaching	Strong technical expertise	4.44	Resource persons demonstrated excellent subject mastery and effective delivery. A small scope exists to further enhance interactive engagement .
		Communication skills	4.47	
		Sessions were interesting	4.24	
		Trainers were well prepared	4.47	
3	Workshop Design & Delivery	Timings were convenient	4.29	The overall structure was well planned, though a few participants suggested minor improvements in session pacing .
		Pedagogy was appropriate	4.34	
		Breaks were sufficient	4.34	
4	Assessment & Evaluation	Assessment suitability	4.40	Assessments were aligned with learning outcomes and were balanced in difficulty , helping participants consolidate learning.
		Assessment difficulty level	4.23	
5		Portal connectivity	4.35	
		Audio & video quality	4.48	



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☐ SCHOOL OF ARCHITECTURE

DEPARTMENT OF ELECTRICAL & COMPUTER ENGINEERING

	Administrative & Technical Support	Registration process	4.53	Administrative arrangements were efficient, smooth, and professionally handled.
6	Overall Rating	Likelihood of recommending the STTP	4.40	Majority of participants rated the programme as "Very Good" to "Excellent" .

2. ACTION TAKEN/PROPOSED

Feedback Observation	Action Taken / Proposed
High appreciation for AI-ML content relevance	Plan advanced-level STTPs focusing on real-time EEE case studies
Desire for more hands-on engagement	Include live demos, MATLAB/Python labs, and mini-projects
Slight variation in session interactivity	Introduce hands-on exercises, polls, and Q&A slots
Assessment clarity appreciated	Maintain outcome-based assessment design
Smooth coordination & logistics	Continue with the same digital platforms and administrative workflow
Strong faculty feedback	Invite top-rated speakers again for future FDPs/STTPs

3. IMPACT OF THE STTP

Academic Impact	- Enhanced faculty understanding of AI & ML applications in Electrical and Electronics Engineering. - Participants gained clarity on integrating AI techniques into teaching, research, and projects. - Encouraged interdisciplinary course design under NEP 2020 framework.
Research Impact	- Motivated participants to explore AI-based optimization, energy systems, smart grids, and predictive maintenance. - Initiation of research ideas, publications, and PhD-level problem identification.
Institutional Impact	- Strengthened the institution's profile in emerging technologies. - Supports NBA, NAAC, and AQAR quality indicators. - Promotes a culture of continuous professional development.
Long-Term Impact	- Improved teaching effectiveness through modern computational tools. - Increased potential for funded research proposals and collaborations. - Positive multiplier effect through knowledge dissemination to students.

Innovative Teaching - Exuberant Learning

Vision : To be the most sought after academic, research and practice based department of Electrical & Computer Engineering that others would wish to emulate.



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ACCREDITED BY NAAC

Certificate of Participation

This certificate is awarded to

Mr. Shahvez Mulla

has participated and successfully completed 6-Days **ISTE Approved Short Term Training Programme (STTP)** on **"Bridging AI with Electrical and Electronics Engineering through Machine Learning"** held on **5th January 2026 to 10th January 2026**, jointly organised by Department of Electrical & Computer Engineering and Department of Electronics and Computer Science, Anjuman-I-Islam's Kalsekar Technical Campus, School of Engineering & Technology.

(Dr. Rajendra B. Magar)
Dean, SoET

(Dr. Ramjan A. Khatik)
Director, AIKTC

Mr. Burhan Harris
Hon. Exec. Chairman, BINM