



**ANJUMAN-I-ISLAM'S  
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL**

Approved by : All India Council for Technical Education, Council of Architecture, Pharmacy Council of India New Delhi,  
Recognised by : Directorate of Technical Education, Govt. of Maharashtra, Affiliated to : University of Mumbai.

SCHOOL OF ENGINEERING & TECHNOLOGY

SCHOOL OF PHARMACY

SCHOOL OF ARCHITECTURE

**DEPARTMENT OF ELECTRICAL ENGINEERING**

**EXPERT LECTURE REPORT**

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

<b>Name of resource person:</b>	<b>Prof. Anagha Malkapurkar</b>
<b>Designation:</b>	Assistant Professor A. C. Patil college of Engineering, Kharghar
<b>Contact details:</b>	9224655629 Email:- <a href="mailto:avmalkapurkar@acpce.ac.in">avmalkapurkar@acpce.ac.in</a>
<b>Date of expert lecture:</b>	<b>25<sup>th</sup> March, 2025</b>
<b>Title of Lecture:</b>	<b>Industrial Applications of Power Electronics along with ML</b>
<b>Event Co-ordinator</b>	<b>Prof. Shraddha Sawant</b>
<b>Target audience:</b>	<b>Second Year Electrical Students</b>
<b>Number of Beneficiaries</b>	<b>25 Students</b>

**DETAILS OF EXPERT LECTURE:**

<b>Aims/ Objectives:</b>	The aim of the expert talk was to provide second-year Electrical Engineering department students with in-depth knowledge and insights on power electronics application along with machine learning, a cutting-edge technology in the field of electronics and ML. The objective of the expert talk was to educate students on the principles, applications, and challenges of new application related to topic, and to inspire them to pursue research and innovation in this area.
<b>Description of Expert lecture:</b>	The expert talk was conducted online on 25 <sup>th</sup> March 2025 and was attended by second-year Electrical Engineering department students. The speaker, Assistant Professor Anagha Malkapurkar, a renowned expert in the field of power electronics, delivered a comprehensive presentation on industrial applications of power electronics and machine learning. The talk covered topics such as the Future perspective for smart grid, battery management, electric vehicle, AI applications in power systems, and the challenges and future directions of research in this area. Also, she has demonstrated a lab for AI model for DC to DC converter in python. All in all, it was a wonderful talk and we did receive very good feedbacks about the speaker and the contents of the talk.

**Innovative Teaching - Exuberant Learning**

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





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COs addressed: Students are able  
CO1 To illustrate (L2) the importance of power electronic and machine learning in industrial application and other domains  
CO2 Analyse (L4) dc to dc converter circuits and their applications.

PSOs addressed:

CO	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO1	3	2										
CO2	3	2										
CO3	3	2										

Pos addressed:

CO	PSO1	PSO2
CO1	2	1
CO2	2	1
CO3	2	1



Dr. Afzal Shaikh  
HOD, ECE



Dr. Rajendra B. Magar  
Dean, SoET



Dr. Ramjan Khatik  
Director, AIKTC