



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

REV: 00

EXPERT LECTURE REPORT

IIC-03


30 October, 2024

School/Department: SoET Electrical & Computer Engineering Department


Name of resource person:	Prof. Shreya Sawant
Designation:	Asst. Professor Samarth Academy Kankavli Sindhudurg
Contact details:	8433587150 Email-Id:sawantshreya333@gmail.com
Date of expert lecture:	27 October, 2024
Title of Lecture:	Electrical Machine
Organized by:	ECE AIKTC, New Panvel, Navi Mumbai.
Target audience:	First Year Students


DETAILS OF EXPERT LECTURE:

Aims/Objectives:	The objective of expert session is to impart knowledge about Electrical Machine.
Description of Expert lecture:	An expert talk on "Electrical Machine" was organized by Anjuman-I-Islam's Kalsekar Technical Campus by SoET Electrical & Computer Engineering Department. Asst. Prof. Shradha A. Sawant introduced resource persons of the event to the students. The resource person handled the session on electrical machine. The session covers the topics on Principle of operation, constructional details, classification and applications of DC Motor, three phase induction motor, Single phase induction motors and BLDC motor. Totally, there are all First-year students attended the session via Zoom Online Platform.



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**Collaboration of IEI Students' Chapter and Department of
Electrical & Computer Engineering
Organize Expert Talk on**


Electrical Machine

SUN
DAY

OCT
27

TIME
9:30am

Speakers Name



Prof. Shreya Sawant

Innovative Teaching - Exuberant Learning

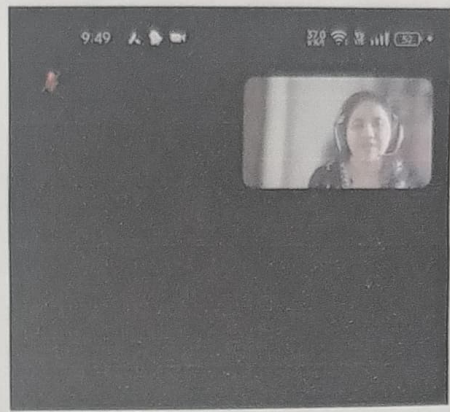
Vision : To be the most sought after academic, research and practice based department of Electrical Engineering



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Classification

Depending upon the method of connection of field winding, the machines are classified into two classes:

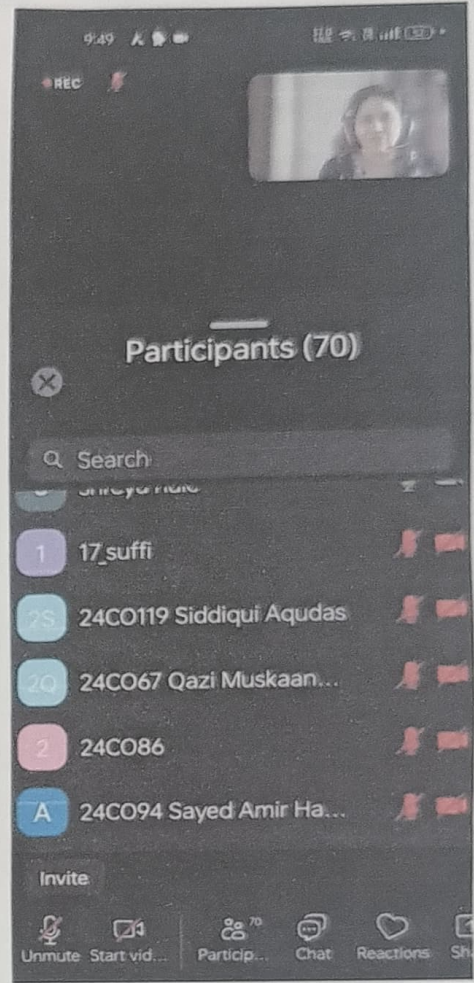
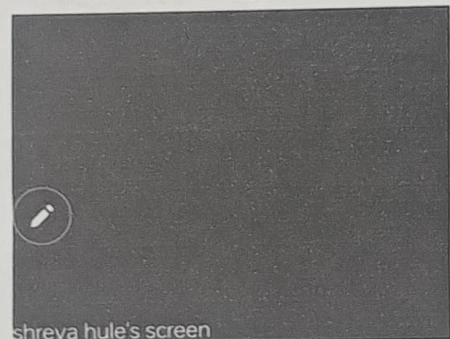
- (i) Separately excited machines.
- (ii) Self-excited machines.

Separately excited machines - In a separately excited machine, the field winding is powered with a separate DC source to supply the field current as shown in Fig. 7.1.

Self-excited machines - In case of self-excited machines, no separate source is provided to drive the field current, but the field current is drawn by an arm and generated across the armature terminals when the machine works as a generator. Self-excited machines are further classified into three types, depending upon the method in which the field winding is connected to the armature.

- (a) Shunt-connected machines.
- (b) Series-connected machines.
- (c) Compound-connected machines.

Shunt-connected machines - In this type of the machine, field winding is connected in parallel with the armature as shown in Fig. 7.2. The number of turns of the field winding must be per turn 300 to 1000.



Outcome of Expert Lecture:

COs addressed: Students are able

- Illustrate the working principle of three phase, single phase induction motors and DC Motors.

PSOs addressed:

CO	P O1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO4	2	1										

Pos addressed:

CO	PSO1	PSO2
CO4	1	1

[Signature]
Course Owner
(Asst. Prof. Shraddha Sawant)

[Signature]
HOD
(Dr. Afzal Shaikh)

[Signature]
Dean of SoET
(Dr. Rajendra. B. Magar)

[Signature]
Director
(Dr. Ramjan A. Khatik)