

Smt. Indira Gandhi College Of Engineering

(An Autonomous Institute, Approved By AICTE-New Delhi, DTE-M.S. & affiliated to University Of Mumbai)
(Plot No 1, Sector 8, Ghansoli, Navi Mumbai 400701)



"Renewable Energy Sources" Club Is Organizing Webinar On



"Renewable Energy Connected HVDC Transmission Systems "

Resource Person:-

Mr. Deepak Nair (Alumni), from ORSTED (Copenhagen, Denmark)
CONTROL & PROTECTION, METERING SYSTEMS LEAD

Event Date & Time :-

04/09/2025 (12:30 pm to 2:30 pm)

Asst Prof. Ansari Mohd
(Club Incharge)

Prof M.K. Alam
(H.O.D Electrical)

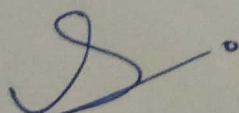
RES Club :-

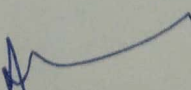
- 1) Ms Tanvi Parte - President
- 2) Ms Vaishnavi Jadhav – Vice President
- 3) Ms Soni Ambatwar- Secretary
- 4) Mr Om Palata-Treasurer
- 5) Mr Gourav, Mr Subhod, Mr Mayank,
Ms Hrutuja, Mr Kunal, Ms Dipali -
Members

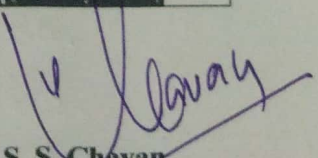


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SMT. INDIRA GANDHI COLLEGE OF ENGINEERING
GHANSOLI, NAVI MUMBAI – 400 701
(An Autonomous Institute, Approved by AICTE, Affiliated to University of Mumbai)

Activity Title	Webinar on “Renewable Energy Connected HVDC Transmission Systems”.
Date : 04 th September 2025.	Time : 12:30 P.M. – 2:30 P.M.
Delivery Mode (Online)	Google Meet
Resource Persons	1. Mr. Deepak Nair (Alumni) 2. Prof M.K. Alam 3. A.P Ansari Mohd Mubashshir 4. RES Club Team.
Participants	Electrical Engineering students & Teaching Staff.
Total Participants:	47 students & 6 Faculty. (Male :- 30 , Female :- 23)
Activity Outcome	Students & Faculty members will able to, 1) Describe different types of “Renewable Energy Sources”. 2) Identify the different parts of offshore wind plant. 3) Analyze the power generation through offshore wind plant . 4) Analyze the advantages & disadvantages of HVDC connected offshore wind plant. 5) Analyze the impact of offshore wind plant on society and environment. 6) Evaluate the performance of HVDC connected offshore wind plant using modern tool.
Feedback	The Webinar was very informative. We understood the need for production of electricity from renewable sources which provides pollution free electricity at low operating cost. The overall success rate of the Webinar is 86.92%.
Photo	


A.P. Ansari Mohd
(RES Club Incharge)


Prof M.K. Alam
(HoD Electrical)


Dr .S. S. Chavan
(Principal)





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Smt. Indira Gandhi College of Engineering
Department of Electrical Engineering
WEOs & WOs
Renewable Energy Sources Club

Webinar Educational Objectives (WEOs) :-

1. To review of conventional and non-conventional energy sources.
2. To give the students basic knowledge of solar thermal energy applications
3. To give the students basic knowledge solar photovoltaic system.
4. To give the students basic knowledge of wind energy system
5. To give the students basic knowledge of fuel cell system operation
6. To give the students basic knowledge about other renewable energy sources & their interconnection.

Webinar Outcomes (WOs) :-

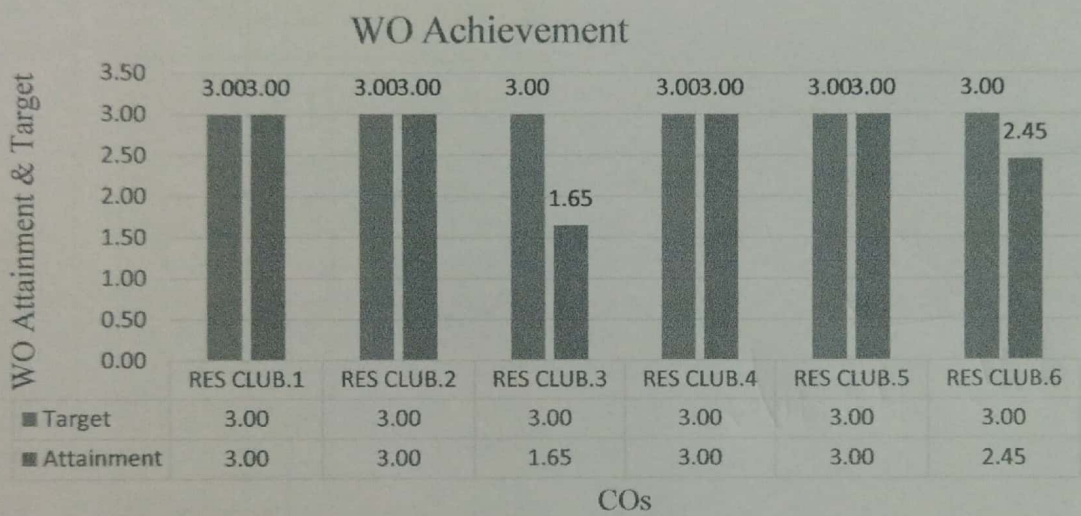
At the end of the course student will be able to ;		POs	Bloom Level
RES CLUB.1	1) Describe different types of "Renewable Energy Sources".	PO1	Understand
RES CLUB.2	2) Identify the different parts of offshore wind plant.	PO1, PO2	Apply
RES CLUB.3	3) Analyze the power generation through offshore wind plant .	PO1, PO4	Analyze
RES CLUB.4	4) Analyze the advantages & disadvantages of HVDC connected offshore wind plant.	PO1, PO3	Analyze
RES CLUB.5	5) Analyze the impact of offshore wind plant on society and environment.	PO1, PO6, PO7	Analyze
RES CLUB.6	6) Evaluate the performance of HVDC connected offshore wind plant using modern tool.	PO1, PO5	Evaluate
Webinar on " Renewable Energy connected HVDC transmission systems ".		PO1, PO2, PO3, PO4, PO5, PO6, PO7, PS O1, PSO2	Evaluate

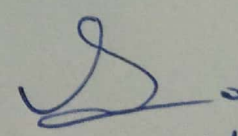
(RES Club Incharge)
(Asst.Prof Ansari Mohd Mubashshir)



WO Achievement

Webinar outcome	Target	Attainment
RES CLUB.1	3.00	3.00
RES CLUB.2	3.00	3.00
RES CLUB.3	3.00	1.65
RES CLUB.4	3.00	3.00
RES CLUB.5	3.00	3.00
RES CLUB.6	3.00	2.45

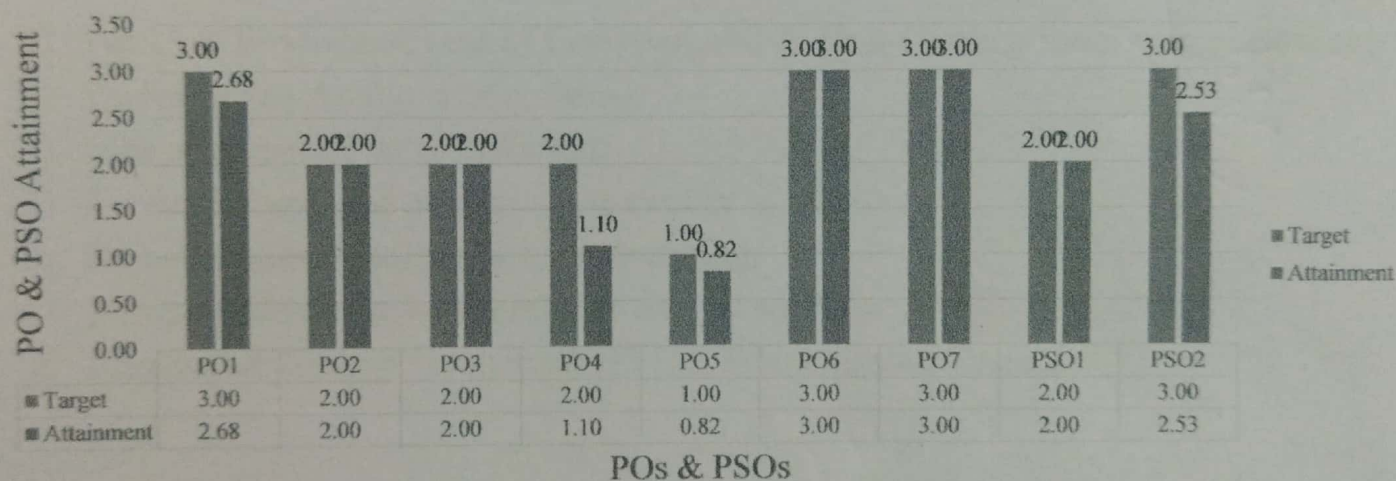



 (Ansari Mohd.)

PO & PSO Attainment of Seminar

Program Outcome	Target	Attainment
PO1	3.00	2.68
PO2	2.00	2.00
PO3	2.00	2.00
PO4	2.00	1.10
PO5	1.00	0.82
PO6	3.00	3.00
PO7	3.00	3.00
PO8	0.00	0.00
PO9	0.00	0.00
PO10	0.00	0.00
PO11	0.00	0.00
PO12	0.00	0.00
PSO1	2.00	2.00
PSO2	3.00	2.53
PSO3	0.00	0.00

PO & PSO Attainment- Target



S.
Ansari Mohd.



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Smt. Indira Gandhi College of Engineering

Estd. : 1993-94

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Electrical Engineering Department

Date of Webinar :- 04/09/2025

Place :- "Smt Indira Gandhi College of Engineering" (Online line through Google Meet)

Time :- 12:30 pm to 2:30 pm

Guest Speaker :- 1) Mr Deepak Nair (Alumni) – +4552790573

Seminar Topic :- **"Renewable Energy Connected HVDC Transmission Systems"**

Course Code :- EEDO 5011 (Renewable Energy Sources)

Objectives of Webinar:-

1. To review conventional and non-conventional energy sources.
2. To educate and inspire students to adopt and promote sustainable energy practices by raising awareness about renewable energy.
3. To give the students basic knowledge of recent trends in renewable energy sources.
4. To educate students about the various types of renewable energy sources, their environmental benefits, and their critical role in sustainable development.
5. To contribute to the reduction of greenhouse gas emissions by promoting the shift from fossil fuels to renewable energy sources.

Outcome of Webinar :-

At the end of the course student will be able to ;		POs	Bloom Level
RES CLUB.1	1) Describe different types of "Renewable Energy Sources".	PO1	Understand
RES CLUB.2	2) Identify the different parts of offshore wind plant.	PO1, PO2	Apply
RES CLUB.3	3) Analyze the power generation through offshore wind plant .	PO1, PO4	Analyze
RES CLUB.4	4) Analyze the advantages & disadvantages of HVDC connected offshore wind plant.	PO1, PO3	Analyze
RES CLUB.5	5) Analyze the impact of offshore wind plant on society and environment.	PO1, PO6, PO7	Analyze
RES CLUB.6	6) Evaluate the performance of HVDC connected offshore wind plant using modern tool.	PO1, PO5	Evaluate



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Electrical Engineering Department

Students & Faculty Participation Factor of Event:-

Class :- SE Electrical

No. of Students Participated :- 10 / 44.

Students Participation Percentage :- 22.72 %

Class :- TE Electrical

No. of Students Participated :- 22 / 50.

Students Participation Percentage :- 44.00 %

Class :- BE Electrical

No. of Students Participated :- 15 / 36.

Students Participation Percentage :- 41.66 %

Faculty:-

No. of Faculty Participated :- 06 / 11.

Faculty Participation Percentage :- 54.54 %

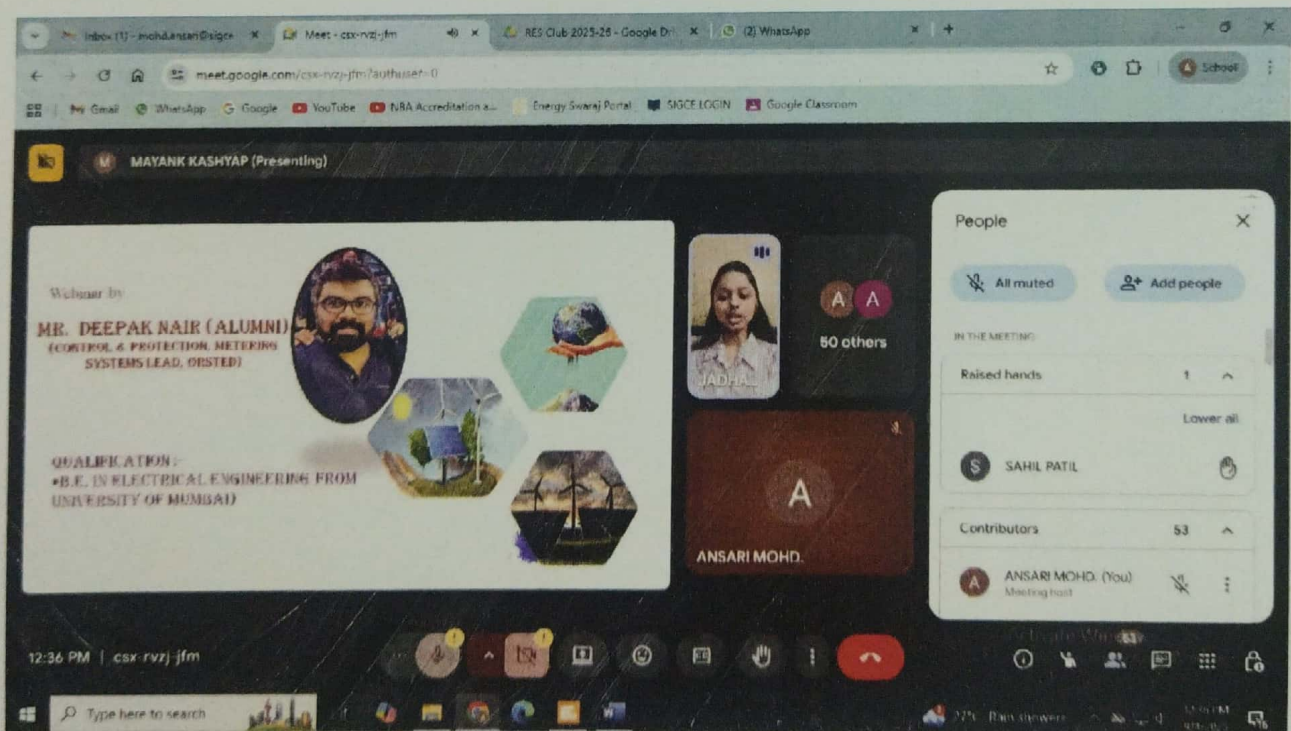
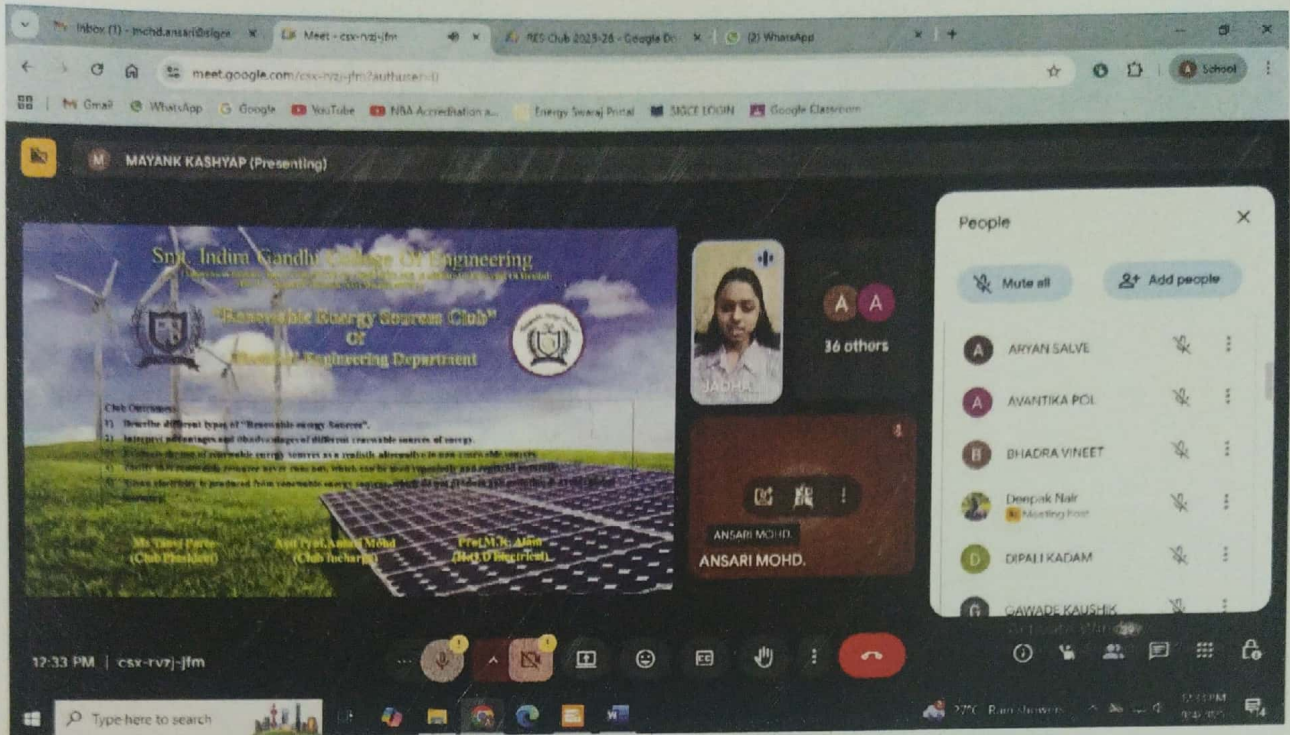
PO Attainment :-

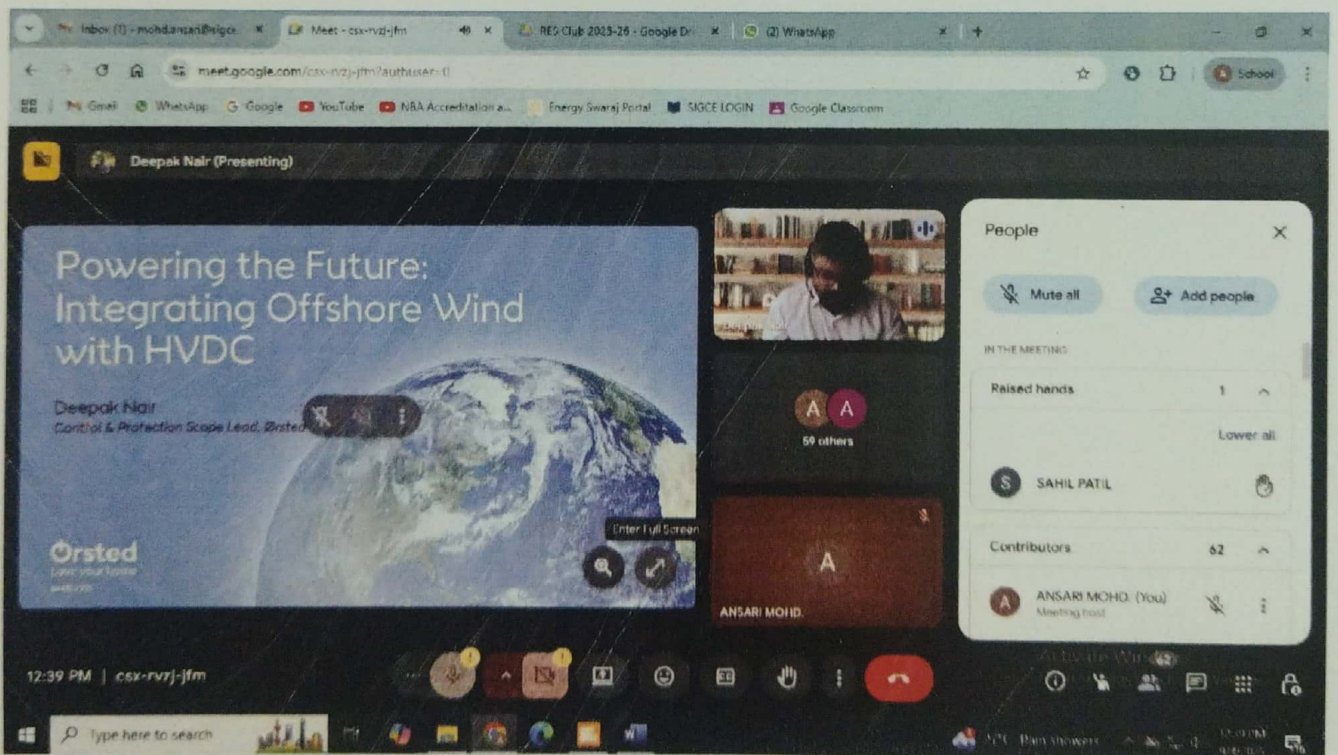
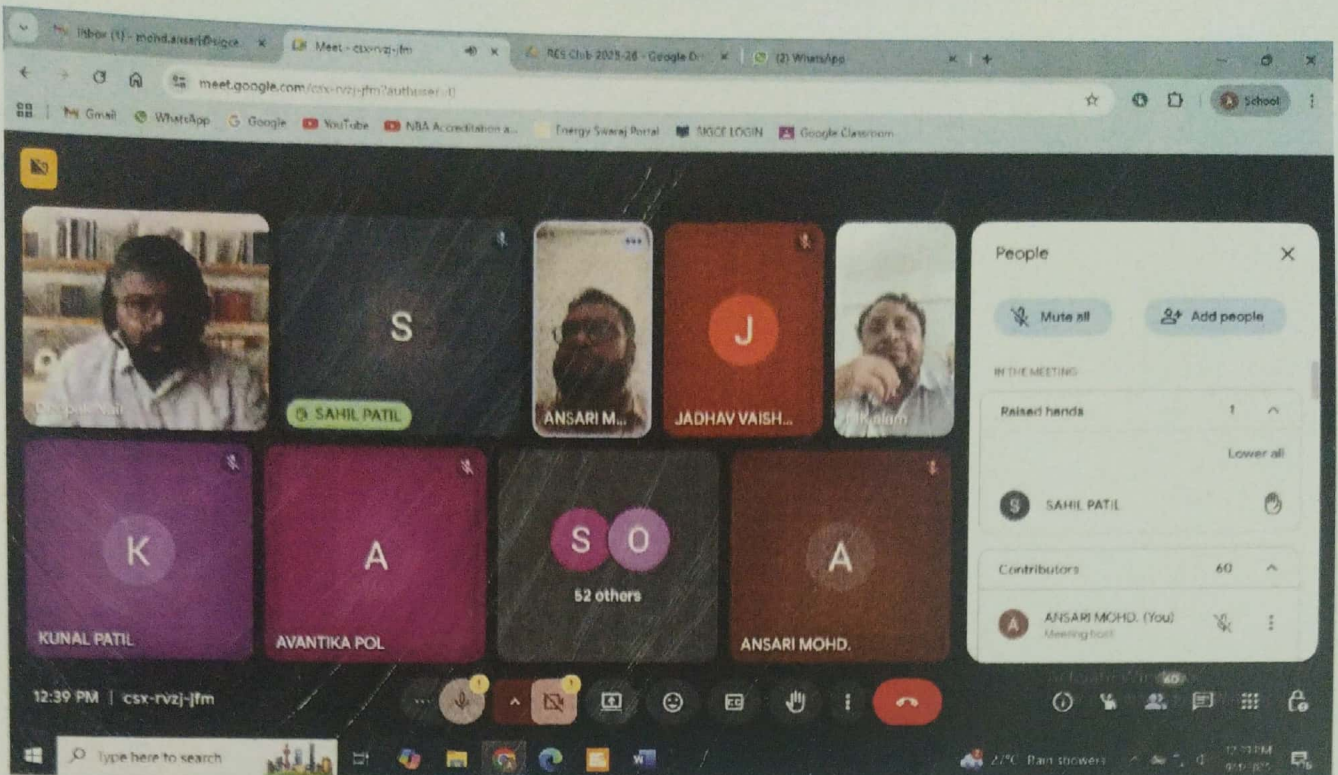
Program Outcome	Target	Attainment
PO1	3.00	2.68
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PO4	2.00	1.10
PO5	1.00	0.82
PO6	3.00	3.00
PO7	3.00	3.00
PSO1	2.00	2.00
PSO2	3.00	2.53

(Asst Prof. Sarika Matey)
Academic Coordinator

(Asst Prof. Ansari Mohd)
Subject Incharge

(Prof M.K.Alam)
H.O.D Electrical

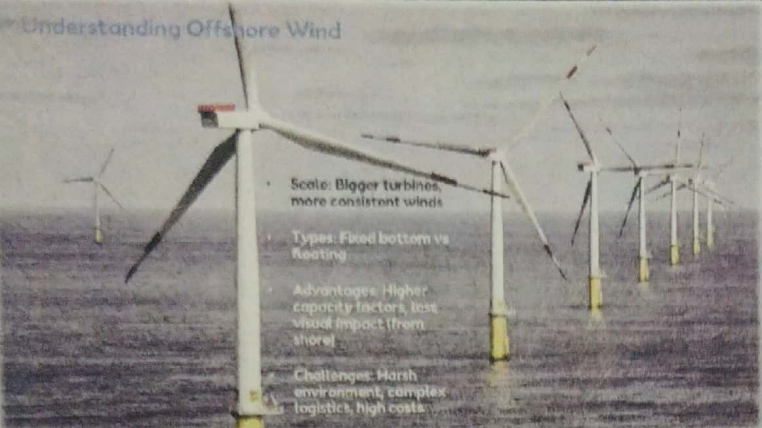




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Deepak Nair (Presenting)

Understanding Offshore Wind



- Scale: Bigger turbines, more consistent winds
- Types: Fixed bottom vs floating
- Advantages: Higher capacity factors, less visual impact (from shore)
- Challenges: Harsh environment, complex logistics, high costs

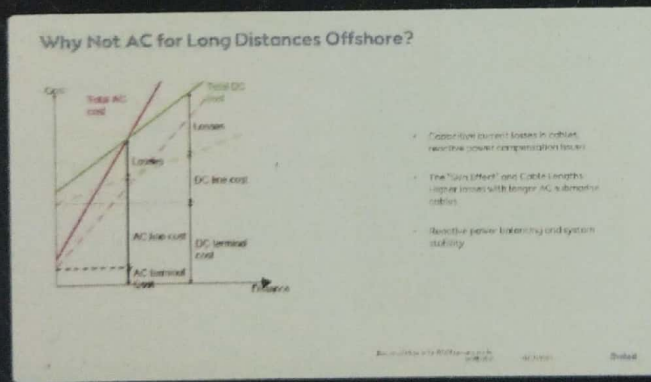
1:07 PM | csx-rvzj-fm

Participants: Deepak Nair, ANSARI M., KAVYA DIGGI, SNIGDHA KAD..., 64 others, ANSARI MOHD.

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Deepak Nair (Presenting)

Why Not AC for Long Distances Offshore?



- Considerable current losses in cables, reactive power compensation losses
- The "Skin Effect" and Cable Lengths (cable losses with longer AC is substantial)
- Reactive power balancing and system stability

1:13 PM | csx-rvzj-fm

Participants: ANSARI MOHD., 70 others

People: All muted, Add people

IN THE MEETING:

Contributors	73
ANSARI MOHD. (You)	Meeting host
Ashwin Mozar	
ABHISHEK GAYKAR	
ADITYA LOHAR	



72.

