

REPORT ON

A week-long AICTE sponsored FDP

on

**“Advancing Renewable Energy  
Technologies for Sustainable E-  
mobility”**

from

January 29, 2024 to February 3, 2024

by

Department of Electrical Engineering,

under the aegis of

JC Bose University of Science and

Technology, YMCA, Fbd , Haryana

A week-long Faculty Development Program was conducted by the Department of Electrical Engineering, under the aegis of JC Bose university of Science and Technology, YMCA and sponsored by All India Council for Technical Education (AICTE) on “Advancing Renewable Energy Technologies for Sustainable E-mobility” from January 29, 2024 to February 3, 2024. Below is the brochure of the program.

**AICTE  
SPONSORED  
ATAL**

**FACULTY DEVELOPMENT PROGRAM  
ON  
RENEWABLE ENERGY TECHNOLOGIES FOR  
SUSTAINABLE E-MOBILITY**

**29.01.2024 - 03.02.2024**








**ORGANISED BY**  
DEPARTMENT OF ELECTRICAL ENGINEERING

J.C. BOSE UNIVERSITY OF SCIENCE AND TECHNOLOGY,  
YMCA, FARIDABAD, HARYANA  
NAAC 'A+' ACCREDITED STATE GOVERNMENT, UNIVERSITY

### RESOURCE PERSONS

<b>Prof. Bhim Singh</b> IIT Delhi	<b>Prof Sanjay Agrawal</b> CSVTU, Chattisgarh
<b>Prof. Sukumar Mishra</b> IIT Delhi	<b>Prof. Y P Verma</b> Punjab University
<b>Prof. Prena Gaur</b> NSUT, West Delhi Campus	<b>Prof. A.. Ansari</b> Jamia Millia Islamia
<b>Prof. Rachana Garg</b> DTU, Delhi	<b>Dr. Shivani Sharma</b> Hitachi Energy, India
<b>Prof. Mukhtiar Singh</b> DTU, Delhi	<b>Prof. M. Rizwan</b> DTU, Delhi

### ADVISORY COMMITTEE

Prof. Sandeep Gover, Dean Institutions  
 Prof. Rajkumar, Dean FET  
 Prof. P.R. Sharma  
 Prof. Rajesh Kr. Ahuja  
 Prof. Poonam Singhal

### ORGANISING COMMITTEE

<b>Dr. Sakshi Kalra</b>	<b>Ms. Shipra Jain</b>
<b>Mr. Nitin Goel</b>	<b>Mr. Atma Ram</b>
<b>Dr. Shakuntla</b>	<b>Ms. Rachna Dhir</b>
<b>Dr. Anubha Gautam</b>	<b>Ms. Bharti Thakur</b>
<b>Mr. Satvinder Singh</b>	



### ABOUT UNIVERSITY

J.C. Bose University of Science and Technology, YMCA is a state government-owned university in Faridabad. Established in 1969, it was a joint venture of the National Council of YMCAs of India, Govt. of Haryana, and Central Agencies for Development Aid (Bonn, Germany). In 1996, the state government of Haryana took complete control of this institution. It was granted university status in 2009 and named YMCA University of Science and Technology (YMCA UST). The university is recognised by the University Grants Commission (UGC) Act 1956 u/s 22 for offering degree programmes. It holds 'Grade-A+' accreditation from NAAC and is a member of the Quality Council of India (QCI) and the Association of Indian Universities (AIU). Besides this, university has 18 engineering colleges in Faridabad and Palwal affiliated with it.

### ABOUT DEPARTMENT

The Department of Electrical Engineering (NBA accredited) is committed to impart technical education in the most efficient manner to its students. It was established in the year 2012 (earlier combined with Electronics Engineering Department and known as EEE Department running since the inception of YMCAIE). The department has equipped itself with workshops/labs and syllabus for achieving engineering education excellence, from the support of excellent faculty of the Department. JCBUST, YMCA has established itself as well known entity in the field of Electrical education. The syllabus of the Department composed of the fundamental concepts blended with the ultra modern topic to impart quality technical education, the lab/workshops consists of the basic instrument to software/simulators for providing the student a feel for industrial work environment. The department of Electrical Engineering is running various UG, PG and Ph.D. programs.

## About AICTE's ATAL Programme:

AICTE Training and Learning (ATAL) Programme is an initiative by AICTE which aims at empowering faculty to achieve goals of Higher Education such as access, equity and quality. The objective is to create an Academy that will coordinate and support the delivery of superior technical education across the country. Additionally, it helps technical colleges advance research by using information and communication technology, which in turn equips technical instructors and technicians to support entrepreneurship and innovation. It was felt Training, with latest tools and technologies is vital to keeping an institute competitive and more productive.

## IMPORTANT INFORMATION

- No registration fees.
- There are limited seats and the participants are selected on the basis of eligibility criteria of AICTE and first come first serve basis.
- There will be a quiz at the end of FDP.
- For the award of certificate, minimum attendance criteria of 80% and a minimum score of 60% in quiz shall be fulfilled.
- It's mandatory for all participants to submit feedback after each session.



### PATRON

Prof. Sushil Kumar Tomar  
Vice Chancellor, J.C. Bose UST, YMCA,  
Faridabad, Haryana

### CHAIRPERSON

Prof. Anju Gupta

### COORDINATOR

Dr. Rashmi Agarwal (9891595209)  
Associate Professor

### CO-COORDINATOR

Dr. Yogendra Arya (9891484801)  
Associate Professor

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## FDP OBJECTIVE


The objective of faculty development program on Advancing Renewable Energy technologies for Sustainable E-mobility is the transition transportation sector towards a more environmental friendly and sustainable future. This goal involves the integration of renewable energy sources with electric mobility in order to reduce greenhouse gas emissions, combat climate change, and improve air quality.

## FDP ABSTRACT

Renewable energy technologies play a critical role in enabling sustainable e-mobility, contributing to the reduction of greenhouse gas emissions and promoting cleaner transportation solutions. This transition toward renewable energy sources is vital in mitigating the environmental impact of traditional fossil fuel-based transportation systems. Key renewable energy technologies, such as solar, wind, and hydroelectric power, offer promising solutions for powering electric vehicles and supporting sustainable e-mobility initiatives. There will be also hands on training on related topic.





The speakers for the six days FDP on “Advancing Renewable Energy Technologies for Sustainable E-mobility” were :

1	Prof. Alok Bhatnagar JC Bose UST, YMCA Fbd	
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2	<p>Dr Avinash Tripathi Assistant Professor IIT Delhi</p>	 A portrait of Dr. Avinash Tripathi, an Assistant Professor at IIT Delhi. He is a middle-aged man with short dark hair and glasses, wearing a maroon button-down shirt. He is looking directly at the camera with a neutral expression.
3	<p>Prof. Bhim Singh IIT Delhi</p>	 A portrait of Prof. Bhim Singh, an IIT Delhi professor. He is an older man with grey hair and a mustache, wearing a white dress shirt and a dark tie. He is looking slightly to the right of the camera.
4	<p>Prof. Md. Rizwan Dept. of EE, DTU</p>	 A portrait of Prof. Md. Rizwan, a professor in the Department of Electrical Engineering at DTU. He is a younger man with dark hair, wearing a dark suit jacket, a light blue shirt, and a patterned tie. He is smiling slightly at the camera.
5	<p>Prof. Mukhtiar Singh Dept. of EE, DTU</p>	 A portrait of Prof. Mukhtiar Singh, a professor in the Department of Electrical Engineering at DTU. He is a middle-aged man with grey hair, wearing a white button-down shirt. He is looking slightly to the right of the camera.

6	<p>Prof. Naqui Anwar TERI School of Advanced Studies New Delhi</p>	 A portrait of Prof. Naqui Anwar, a man with dark hair and a beard, wearing a light green shirt, looking directly at the camera against a plain white background.
7	<p>Prof. Purna Gaur Director, NSUT New Delhi</p>	 Prof. Purna Gaur, a woman with dark hair, wearing a purple puffer jacket, speaking at a podium with a microphone. The background shows trees and an outdoor setting.
8	<p>Prof. Rajesh Ahuja Dept. of Electrical Engineering JCBoseUST, YMCA Fbd.</p>	 A portrait of Prof. Rajesh Ahuja, a man with glasses, wearing a dark suit, white shirt, and blue tie, looking slightly to the right against a yellow background.

9	Prof. Sanjay Aggarwal Pro Vice Cancellor, Chattisgarh SVTU	
10	Dr Shivani Sharma Principal Technical Consultant Hitachi Energy	

The list of participants is as under :

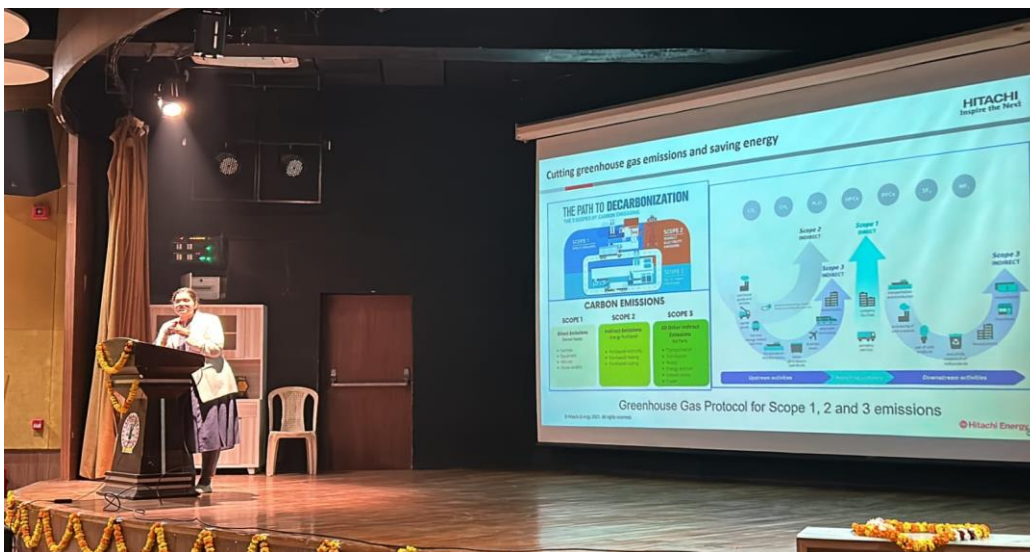
Sr.No	Participant Name	Mobile No	Institute Name	Designation
1	Dr. Awdhesh Kumar Poddar	7206357101	ADGITM New Delhi	Assistant Professor
2	Ms. Priyanka Singh	9958031457	ADGITM New Delhi	Research Scholar
3	Mr. Phani Kumar K.S.V	9652974377	CVR College of Engineering	Assistant Professor
4	Mr. Pardeep Kumar	9812379868	Ganga Institute of Technology & Management	Assistant Professor
5	Dr. Kavita Singh	9818051582	Rawal Institue of Engineering and Technology, Faridabad	Assistant Professor
6	Mr. Satvinder singh	9319246899	JCBUST, YMCA, Faridabad	Assistant Professor
7	Miss Keerthana S	9840791877	Sri Muthukumaran Institute of Technology	Assistant Professor

8	Mr. Atma Ram	9467959798	JCBUST, YMCA, Faridabad	Assistant Professor
9	Mrs. Shipra Jain	9582182997	JCBUST, YMCA, Faridabad	Assistant Professor
10	Mrs. Anubha Gautam	9990287227	JCBUST, YMCA, Faridabad	Assistant Professor
11	Mrs. Bharti Thakur	9654035561	JCBUST, YMCA, Faridabad	Assistant Professor
12	Rafeque Ahmad	9873321262	JMI,	Research Scholar
13	Sakshi Bangia	8860988607	JCBUST, YMCA, Faridabad	Associate Professor
14	Dr. Kalpana Sheokand	8920544024	JCBUST, YMCA, Faridabad	Assistant Professor
15	Neha Kapoor	9416996545	UIET, MDU	Assistant Professor
16	Sanjeev	7206286371	UIET, MDU	Research Scholar
17	Chetan Bhardwaj	7876292728	UIET, MDU	Research Scholar
18	Vivek	9996322654	UIET, MDU	Research Scholar
19	Rohit Tripathi	9958268783	JCBUST, YMCA, Faridabad	Assistant Professor
20	Kapil Kumar	9817324925	UIET, MDU	Research Scholar
21	Sheilza Jain	9818886957	JCBUST, YMCA, Faridabad	Assistant Professor
22	PV Subhanjaneyulu	8897877845	SVR Engineering College	Assistant Professor
23	Khalid Amin	7065233621	Jamia Millia Islamia	Research Scholar
24	Md Shahbaz Alam	9709299285	Jamia Millia Islamia	Research Scholar
25	Md Kamal Uddin	9064022900	Jamia Millia Islamia	Research Scholar
26	Pragalbha Kant	8802420277	TRIELC Institute of education Pvt Ltd.	Faculty
27	Pankaj Dahiya	9958446721	Delhi Technological University	Assistant Professor
28	Huzaiifa Naz	9319936046	Jamia Millia Islamia	Research Scholar
29	Asra Irfan	7889416537	Jamia Millia Islamia	Research Scholar
30	Pradeep Kumar	9416102021	Government Polytechnic Indari	Assistant Professor
31	Uma Yadav	9354207744	DSEU Pusa Campus -1	Faculty
32	Mahendra Kumar Sharma	9560243808	Jamia Millia Islamia	Research Scholar
33	Sarfraz	9671325332	NGF College of Engineering and Technology	Assistant Professor
34	Abdul Azeem	9719194004	Delhi Technological University	Research Scholar



35	Mrs. Anisha Nagpal	9654302373	Manav Rachna International Institute of Research and Studies	Assistant Professor
36	Dr. Vinod Sharma	9306641643	NGF College of Engineering and Technology	Associate Professor
37	Miss Rachna	8585872708	DTU	Research Scholar
38	Mrs. Archana Aggarwal	9971350816	Jamia Millia Islamia	Research Scholar
39	Parag Kavthekar	9871307355	BOSCH LTD	Trainer

Some of the glimpses of the program :



The group photo of the participants at the valedictory session :



