SHRI VILE PARLE KELAVANI MANDAL'S
Institute of Technology, Dhule
Approved by AICTE New Delhi | Affiliated to DBATU, Lonere

Department of Electrical Engineering

Academic Year 2022-23

AICTE recognized FDP on "Power Electronics for Renewable Energy Applications"

Objective	To educate researchers with following advancements in Power Electronics and Renewable Energy Applications: 1. Basics of Power Electronics for Renewable Energy Applications 2. Conduction mode EMI reduction in renewable energy integration through high efficiency solid state transformer 3. Stability Analysis of DC-DC power electronics converter 4. Role of Power Electronics in Wind-Solar with Energy Storage Based Microgrid Integrated to Utility Grid 5. Power Quality Issues due to converter integration with grid 6. DFIG based wind energy conversion system with MPPT 7. Harmonic Elimination in Cascade Multilevel Inverter using GA 8. FACTS for reactive power compensation 9. Real and Reactive power control of an inverter connected to renewable energy sources 10. Hardware implementation of Power electronic converters with renewable energy sources 11. High-frequency Power Electronics Converter PCB Design 12. Visualization of Power Electronics Converter Circuit using Microsoft Visio
Organizer	Department of Electrical Engineering SVKM's Institute of Technology, Dhule
Participating Class & Division	Faculty from local engineering colleges.
Date	31/10/2022 to 04/11/2022 (One Week)
Time	9:30 AM to 4:00 PM
Venue	Online – Microsoft Teams in seminar hall.
Coordinator/s	Mr. Sandeep Ushkewar **Organizing Team:** Mr. Gaurav Patil, Dr. Namra Joshi, Mr. Jagdish More, Ms. Farha Naz, Mr. T. N. Shubham, Mr. Shahid Akhtar, Mr. Ankush Kumar Mudholker, Mr. Rahul Thakur, Mr. Jayesh Patil, Mr. Pankaj Bhavsar.
Name of Speaker with Designation	1. Dr. Shimi S.L, Assistant Professor, NITTTR Chandigarh 2. Dr. Kalaiselvi J, Assistant Professor, IIT Ropar 3. Mr. Muhmmad Zarkab Farooqi, Research Scholar, IIT Delhi 4. Farheen Chishti, Research Engineer, GE Research 5. Dr. Ritula Thakur, Associate Professor, NITTTR Chandigarh 6. Dr. Anandarup Das, Associate Professor, IIT Delhi

	7. Dr Lini Mathew, Professor, NITTTR Chandigarh 8. Dr. Ravi Teja, Assistant Professor, IIT Ropar 9. Mr. Saran Chandra Haurasia, Research Scholar, IIT Delhi 10. Mr. Rohit Kumar, Research Scholar, IIT Delhi
Brief report on activity	• The FDP was conducted in below sequence.

DAY & DATE	Live Session - 1 9.30 AM to 11. 00 AM	Live Session - 2 11.30 AM to 1.00 PM	Live Session - 3 2.30 PM to 4.00 PM
Monday 31/10/2022	Inauguration and Basics of Power Electronics for Renewable Energy Applications (SSL)		Conduction mode EMI reduction in renewable energy integration through high efficiency solid state transformer (KS)
Tuesday 01/11/2022	Stability Analysis of DC-DC power electronics converter (MZF)	Role of Power Electronics in Wind-Solar with Energy Storage Based Microgrid Integrated to Utility Grid (FC)	Power Quality Issues due to converter integration with grid (SSL)
Wednesday 02/11/2022	DFIG based wind energy conversion system with MPPT (RT1)	Harmonic Elimination in Cascade Multilevel Inverter using GA (SSL)	Fault-tolerant approach for modular multilevel converters (AD)
Thursday 03/11/2022	FACTS for reactive power compensation (LM)	Real and Reactive power control of an inverter connected to renewable energy sources (RT2)	Hardware implementation of Power electronic converters with renewable energy sources (SSL)
Friday 04/11/2022	High-frequency Power electronics Converter PCB Design (SCH)	Visualization of Power Electronics Converter Circuit using Microsoft Visio (RK)	STC Valediction and evaluation (SSL)

Duration of Program	One Week
Total No. of participants	33

Mr. Sandeep Ushkewar Coordinator	**Dr. Vishal Moyal** Department Coordinator	**Dr. Nilesh Salunke** Principal & Patron

Principal
SVKM's Institute of Technology,Dhule

Attached:-

1. Details of the Event
2. Event poster
3. Event Memories/Pictures
4. List of Participants
5. Sample Certificate

1. Details of the Event

Name of Program: AICTE recognized FDP on "Power Electronics for Renewable Energy Applications"

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8. FACTS for reactive power compensation
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10. Hardware implementation of Power electronic converters with renewable energy sources
11. High-frequency Power Electronics Converter PCB Design
12. Visualization of Power Electronics Converter Circuit using Microsoft Visio

Dates and duration: 31/10/2022 to 04/11/2022 (One Week)

Event Coordinator: Mr. Sandeep Ushkewar

Convener: Dr. Vishal Moyal.

Patron: Dr. Nilesh Salunke

Organizing Team: Mr. Gaurav Patil, Dr. Namra Joshi, Mr. Jagdish More, Ms. Farha Naz, Mr. T. N. Shubham, Mr. Shahid Akhtar, Mr. Ankush Kumar Mudholker, Mr. Rahul Thakur, Mr. Jayesh Patil, Mr. Pankaj Bhavsar.

Participants: Faculty from local engineering colleges.

Name and details of the speakers:

1. Dr. Shimi S.L, Assistant Professor, NITTTR Chandigarh
2. Dr. Kalaiselvi J, Assistant Professor, IIT Ropar
3. Mr. Muhmmad Zarkab Farooqi, Research Scholar, IIT Delhi
4. Farheen Chishti, Research Engineer, GE Research
5. Dr. Ritula Thakur, Associate Professor, NITTTR Chandigarh
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8. Dr. Ravi Teja, Assistant Professor, IIT Ropar
9. Mr. Saran Chandra Haurasia, Research Scholar, IIT Delhi
10. Mr. Rohit Kumar, Research Scholar, IIT Delhi

2. Event Poster

3. Event Memories/ Pictures

Local program coordinator Mr. Sandeep Ushkewar giving Thanks to the Central Coordinator, NITTR, Chandigarh.

Attendance

Name of the Course: Power Electronics for Renewable Energy Applications (O.P.NO-
Dates: 31st October to 4th November 2022 (O. PLAN No. ICT-133)
Venue (Nodal Centre) : SVKM's Institute of Technology, Dhule. (Maharashtra)
Local Course Coordinator : Mr.Sandeep Ushkewar
Supporting Staff : Mr. Jayesh Patil

Sr. No.	Name of the Participant	Name of the Institute	31/10/2022		1/11/2022		2/11/2022		3/11/2022		4/11/2022	
			09.30 am-1.00 pm	2.30pm-4.00pm	09.30 am-1.00 pm	2.30pm-4.00pm	09.30 am-1.00 pm	2.30pm-4.00pm	09.30 am-1.00 pm	2.30pm-4.00pm	09.30 am-1.00 pm	2.30pm-4.00pm
1	AKSHAY BHARAT JAIN	SVKM's Institute of Technology,Dhule.										
2	AKSHAY JOSHI	Nikam Institute of Technology,Dhule										
3	ASHWINI JAYAWANT PATIL	Adarsh Polytechnic,Dhule.										
4	ASHWINI VILAS AHIRE	Nikam Institute of Technology,Dhule										
5	BADGUJAR NITISH SUNIL	Nikam Institute of Technology,Dhule										
6	DEEPAK ANIL CHAVHAN	Nikam Institute of Technology,Dhule										
7	DIGVIJAY SHAMRAO DEORE	SVKM's Institute of Technology,Dhule.										
8	DR SAMBAJI RAO	SVKM's Institute of Technology,Dhule.										
9	FARHA NAZ	SVKM's Institute of Technology,Dhule.										
10	GAURAV BALUDAS PATIL	SVKM's Institute of Technology,Dhule.										
11	HARSHADA YASHWANT PATIL	Nikam Institute of Technology,Dhule										
12	JAYESH NANA PATIL	SVKM's Institute of Technology,Dhule.										
13	KIRTI SWAPNIL SHINDE	SVKM's Institute of Technology,Dhule.										
14	KRUPAL BAPU KANNOR	Nikam Institute of Technology,Dhule										
15	M. ANKUSH KUMAR	SVKM's Institute of Technology,Dhule.										
16	MAHENDRA DILIP PATIL	SVKM's Institute of Technology,Dhule.										
17	NILESH SURESH PAWAR	SVKM's Institute of Technology,Dhule.										
18	PINJARI AMIRKHAN NAZIMKHAN	SVKM's Institute of Technology,Dhule.										
19	PRADEEP DAGADU SURWADE	SVKM's Institute of Technology,Dhule.										
20	PRANJALI PRAKASH CHAUDHARI	Nikam Institute of Technology,Dhule										
21	RAHUL MANOHAR THAKUR	SVKM's Institute of Technology,Dhule.										
22	RINKU MAHESH SHARMA	SVKM's Institute of Technology,Dhule.										
23	SAGAR SURESH PATIL	Nikam Institute of Technology,Dhule										
24	SANDEEP JAYWANTRAO SHINDE	Nikam Institute of Technology,Dhule										
25	SANDEEP SUNIL USHKEWAR	SVKM's Institute of Technology,Dhule.										
26	SATISH RAMESH PATIL	SVKM's Institute of Technology,Dhule.										
27	SHAHID AKHTAR IQBAL AHMED	SVKM's Institute of Technology,Dhule.										
28	SHITAL VINODKUMAR PATIL	SVKM's Institute of Technology,Dhule.										
29	SNEHA KESHAV PAWAR	Gangamai College of Engineering,Dhule										
30	SNEHA PATIL	SVKM's Institute of Technology,Dhule.										
31	TEJVEERSINGH PRAVINSINGH TAVAR	SVKM's Institute of Technology,Dhule.										
32	VIJAYLAXMI BITTAL	SVKM's Institute of Technology,Dhule.										
33	YOGESH DILIPRAO SONAWANE	SVKM's Institute of Technology,Dhule.										

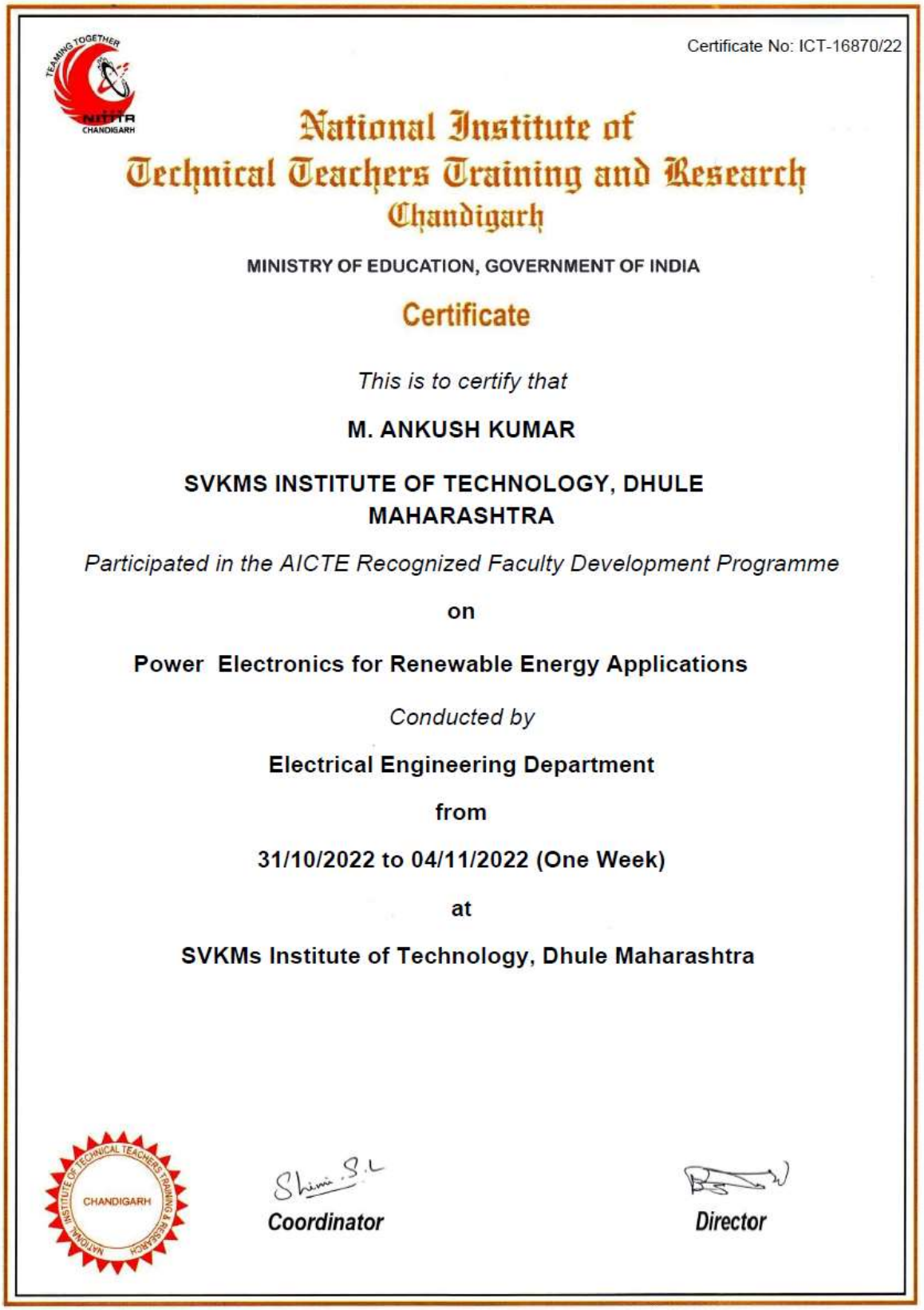
04.11.22

[Local Programme Coordinator]

Shri Vile Parle Kelavani Mandal's Institute of Technology DHULE

05-11-22

5. Sample Certificate



Certificate No: ICT-16870/22

National Institute of
Technical Teachers Training and Research
Chandigarh

MINISTRY OF EDUCATION, GOVERNMENT OF INDIA

Certificate

This is to certify that

M. ANKUSH KUMAR

SVKMS INSTITUTE OF TECHNOLOGY, DHULE
MAHARASHTRA

Participated in the AICTE Recognized Faculty Development Programme

on

Power Electronics for Renewable Energy Applications

Conducted by

Electrical Engineering Department

from

31/10/2022 to 04/11/2022 (One Week)

at

SVKMs Institute of Technology, Dhule Maharashtra

Coordinator

Director