

Six Days Online ATAL Faculty Development

Program

On

Energy & Sustainability: Sustainable Development Through Advanced Renewable Energy Technologies (ESSDTARET-2025)

Sponsored by

AICTE Training and Learning (ATAL) Academy



ALL INDIA COUNCIL FOR TECHNICAL
EDUCATION
NEW DELHI, INDIA

From
17th to 22th November 2025

Organized by:

Department of Electrical Engineering



Swami Vivekananda School of Diploma

(A Unit of Sanaka Educational Trust)

Malandighi, Durgapur-12

Approved and Affiliated

By

AICTE and WBSCT&VE&SD

Patron:

Mr. Tapan Kumar Pobi

Honorable President, SET

Mr. Partha Pobi

Honorable Vice-President, SET

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Dr. Saikat Chatterjee

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Dr. Snigdhadip Ghosh

Honorable Registrar, SVSD

Program Chair:

Mr. Suman Pramanik

Honorable Principal, SVSD

Coordinator:

Mrs. Priyanka Dutta

Assistant Professor, EE Department

Co-Coordinator:

Mr. Sudip Kr. Bid

Assistant Professor, EE Department

Organizing Committee Members:

Mr. Sujan Banerjee, Mr. Kailash Bauri, Mr. Debabrata Sarkhel, Mr. Arjun Ray, Mr. Santanu Kundu, Mr. M. Betal

Contact Person:

Mrs. Priyanka Dutta

Ph. No. - 9800869583

Mr. Sudip Kr. Bid

Ph. No. - 7908687746

CERTIFICATE:

The certificates shall be issued to those participants who are registered on ATAL portal www.aicte-india.org/atal and attend the program with minimum 80% attendance and score minimum 70% marks in the test.

HOW TO REGISTER

The Participants may log on to **AICTE Training And Learning (ATAL)** Academy Website and fill up the participants registration for new FDP.

www.aicte-india.org/atal

No charge for Registration or Certification is needed.



Target Participant

The faculty members, Research scholars & PG Scholars of the AICTE approved institutions and Industry Personnel.

Objective of the program

The objective of ESSDTARET-2025 is to enhance the knowledge, skills, and pedagogical practices of faculty members in the areas of renewable energy and sustainable development. The program aims to provide an in-depth understanding of advanced renewable energy technologies such as solar photovoltaic systems, wind energy, biomass conversion, hydrogen energy, and smart grid integration. It seeks to equip faculty with the ability to integrate sustainability principles into engineering and science curricula, promote interdisciplinary research, and encourage innovation in clean energy solutions. The program also intends to build awareness of national and

global energy policies, climate goals, and strategies for achieving sustainable energy transitions in academic and real-world applications.

Outcome of the Program

The Faculty Development Program ESSDTARET-2025 is expected to yield several significant outcomes. Faculty members will acquire advanced knowledge of renewable energy technologies and their role in achieving sustainable development goals. Participants will be able to incorporate updated concepts into academic curricula, design interdisciplinary research proposals, and apply simulation tools and practical methodologies for energy system analysis. The program will also enhance their ability to guide student projects and initiate collaborations with industry and research organizations. As a result, institutions will benefit from improved academic delivery, increased research output, and a stronger alignment with national and global sustainability initiatives, including India's renewable energy mission and net-zero goals.

About Swami Vivekananda School of Diploma

In order to improve society and the nation, Swami Vivekananda School of Diploma, Durgapur was founded in 2012 under the auspices of "Sanaka Educational Trust" with the goal of providing high-quality engineering knowledge. At SVSD, we take immense pride in providing a diverse range of courses including Diploma in Civil Engineering, Diploma in Electrical Engineering and Diploma in Mechanical Engineering. SVSD has a distinct aim: to provide quality technical education and focus on grooming and training the students to meet the dynamic needs of society and industry through innovative approaches.

About Department of Electrical Engineering

In order to help students succeed in businesses and professional institutions, the Electrical Engineering Department has a well-rounded faculty with strong industrial, research, and teaching backgrounds. The

laboratories and workshops are furnished with modern technology.

Resource Persons

Expert from Academia:

Dr. Chandan Kumar Chandan
Professor, IIEST, Shibpur
Dr. Parimal Acharjee
Professor, NIT, Durgapur
Dr. Kumari Namrata
Associate Professor, NIT Jamshedpur
Dr. Abhinandan De
Associate Professor, IIEST, Shibpur
Dr. Kalyan Chatterjee
Professor, IIT (ISM) Dhanbad

Expert from Industries:

Mr. Endadul Mondal
Divisional Engineer (Electrical), The West Bengal State Electricity Distribution Company Limited(WBSEDCL).
Mr. Arnab Sow
Manager (Electrical), DVC
Mr. Swapna Maitra
Deputy General Manager, Key Account Manager (Power & Grid Segment). Schneider Electric
Mr. Kanwaljeet Kukreja
Vice President – Innovations, Power Systems – Schneider Electric Infrastructure Limited
Dr. Mehebub Alam
Manager (Electrical), DVC, Kolkata
Mr. Joydev Adak.
Manager (Electrical), DVC

Expert from Overseas:

Dr. Xiao-Zhi Gao
Professor, School of Computing, University of Eastern Finland, Finland
Dr. Akhtar Kalam
Emeritus Professor, Victoria University

Program Schedule

Day 1: (17/11/2025)	
6:00PM to 6:30PM Inaugural Session Session-1 (6:30PM to 8:00PM) Distribution Grid Modernization for a sustainable future: Challenges, Innovation and Policy Pathways. Mr. Endadul Mondal	Session-2 (8:00PM to 9:30PM) Smart Grid and its implementation in India. Dr. Parimal Acharjee
Day 2: (18/11/2025)	
Session-3 (6:00PM to 7:30PM) Challenges in smart grid implementation. Dr. Chandan Kumar Chandan	Session-4 (7:30PM to 9:00PM) Enabling a Renewable Future with Flexible Thermal Plants and Energy Storage Systems Mr. Arnab Sow
Day 3: (19/11/2025)	
Session-5 (6:00PM to 7:30PM) Estimation of Solar Radiation and its impact on Transition to Green Energy. Dr. Kumari Namrata	Session-6 (7:30PM to 9:00PM) Grid Integration of Renewable Energy - Challenges and Solutions Dr. Abhinandan De
Day 4: (20/11/2025)	
Session-7 (6:00PM to 7:30PM) Schneider Electric – Trusted Partner for Sustainability and Efficiency Mr. Swapna Maitra	Session-8 (7:30PM to 9:00PM) Energy conservation and management: An evident need for achieving energy ecosystem Dr. Mehebub Alam
Day 5: (21/11/2025)	
Session-9 (6:00PM to 7:30PM) An insight to energy sustainability and climate change. Mr. Kanwaljeet Kukreja	Session-10 (7:30PM to 9:00PM) Nature-inspired computing methods with applications. Dr. Xiao-Zhi Gao
Day 6: (22/11/2025)	
Session-11 (2:00PM to 3:30PM) New and Emerging Developments in Solar Energy. Dr. Akhtar Kalam	Session-12 (3:30PM to 5:00PM) Mathematical Modeling of Complete Wind Energy System Dr. Kalyan Chatterjee
Session-13 (5:00PM to 7:30PM) Enhancing Power Supply Reliability and Prevention of Electrical System Tripping: Insights from various practical Case Studies Mr. Joydev Adak.	6:30PM to 7:30PM Onlinetest&feedback 7:30PM to 8:00PM Valedictory Session

ATAL Online 6 Day Faculty Development Programmes 2024-25 Schedule

FDP Thrust Area: Energy, Sustainability & Climate Change

FDP Title: Sustainable development through advanced Renewable Energy Technologies

Start Date: 17/11/2025

End Date: 22/11/2025

Day 1 (17/11/2025)	Day 2 (18/11/2025)	Day 3 (19/11/2025)	Day 4 (20/11/2025)	Day 5 (21/11/2025)	Day 6 (22/11/2025)
6:00PM to 6:30PM Inaugural Session	6:00PM to 7:30PM Session 3 Topic: Challenges in smart grid implementation. Name of the Expert: Dr.Chandan Kumar Chandan Designation & Organization: Professor, IEST, Shibpur Years of Exp:41+	6:00PM to 7:30PM Session 5 Topic: Estimation of Solar Radiation and its impact on Transition to Green Energy Name of the Expert: Dr.Kumari Namrata Designation & Organization: Associate Professor, NIT Jamshedpur Years of Exp: 23	6:00PM to 7:30PM Session 7 Topic: Schneider Electric – Trusted Partner for Sustainability and Efficiency Name of the Expert: Mr. Swapna Maitra Designation & Organization: Deputy General Manager, Key Account Manager (Power & Grid Segment). Schneider Electric Years of Exp:19+	6:00PM to 7:30PM Session 9 Topic: An insight to energy sustainability and climate change. Name of the Expert: Mr. Kanwaljeet Kukreja Designation & Organization: Vice President – Innovations, Power Systems – Schneider Electric Infrastructure Limited Years of Exp:19+	2:00PM to 3:30PM Session 11 Topic: New and Emerging Developments in Solar Energy Name of the Expert: Dr. Akhtar Kalam Designation & Organization: Emeritus Professor, Victoria University Years of Exp:45+
6:30PM to 8:00PM Session 1 Topic: Distribution Grid Modernization for a sustainable future: Challenges, Innovation and Policy Pathways. Name of the Expert: Mr. Endadul Mondal Designation & Organization: Divisional Engineer (Electrical), The West Bengal State Electricity Distribution Company Limited (WBSEDCL) Years of Exp: 14	7:30PM to 9:00PM Session 4 Topic: Enabling a Renewable Future with Flexible Thermal Plants and Energy Storage Systems Name of the Expert: Mr.Arnab Sow Designation & Organization: Manager (Electrical), DVC Years of Exp: 14	7:30PM to 9:00PM Session 6 Topic: Grid Integration of Renewable Energy - Challenges and Solutions Name of the Expert: Dr. Abhinandan De Designation & Organization: Associate Professor, IEST, Shibpur Years of Exp: 25+	7:30PM to 9:00PM Session 8 Topic: Energy conservation and management: An evident need for achieving energy eco system Name of the Expert: Dr. Mehebub Alam Designation & Organization: Manager (Electrical), DVC, Kolkata Years of Exp: 13+	7:30PM to 9:00PM Session 10 Topic: Nature-inspired computing methods with applications Name of the Expert: Dr. Xiao-Zhi Gao Designation & Organization: Professor, School of Computing, University of Eastern Finland, Finland Years of Exp:31	3:30PM to 5:00PM Session 12 Topic: Mathematical Modeling of Complete Wind Energy System Name of the Expert: Dr. Kalyan Chatterjee Designation & Organization: Professor,IIT (ISM) Dhanbad Years of Exp: 25+
8:00PM to 9:30PM Session 2 Topic: Smart Grid and it's implementation in India. Name of the Expert: Dr. Parimal Acharjee Designation & Organization: Professor, NIT, Durgapur					5:00PM to 7:30PM Session 13 Topic: Enhancing Power Supply Reliability and Prevention of Electrical System Tripping: Insights from various practical Case Studies

Years of Exp:24

Name of the Expert:

Mr. Joydev Adak.

Designation & Organization:

Manager (Electrical), DVC Years of Exp:
12+

6:30PM to 7:30PM

Online test & feedback

7:30PM to 8:00PM

Valedictory Session