

**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

**17<sup>th</sup> to 22<sup>th</sup> 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*

**Mrs. Mohua Pobi**  
*Honorable Secretary, SET*

**Advisory Committee:**

**Dr. Saikat Chatterjee**  
*Honorable Director, SETGOI*

**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](http://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](http://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, IEST, Shibpur*

**Dr. Parimal Acharjee**

*Professor, NIT, Durgapur*

**Dr. Kumari Namrata**

*Associate Professor, NIT Jamshedpur*

**Dr. Abhinandan De**

*Associate Professor, IEST, 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. Swapan 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. Mehebab 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**

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

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