

ABOUT THE INSTITUTE

Parala Maharaja Engineering College (P.M.E.C), Berhampur came into existence in the year 2009 as a constituent college of Biju Pattnaik University of Technology (BPUT), Odisha. This college is one of the premier technical institute in the state and is funded by the government of Odisha. The main objective of the institution is to produce quality technocrats in various streams. Government of Odisha has recognized this institution as a leading institution of repute and has a plan to develop it as a centre of excellence under plan funding. PMEC is recognized in the band "PROMISING" under the category "Colleges/Institutes (Govt. & Govt. Aided) (Technical)" in Atal. Ranking of Institutions on Innovation Achievement (ARIIA) 2021, a flagship program of the Ministry of Education, Government of India on 29th December 2021.

DEPARTMENT DETAIL

The department is one of the pioneering departments of the Institute. The department is progressing at a rapid pace with development in both the spheres of infrastructure facilities and academic programmes. The Department has qualified faculty members engaged in teaching and research with the aim of achieving excellence in the field of electrical Engineering. The department offers UG courses in Electrical Engineering and PG programme in Power System Engineering. The Department is offering Ph.D. programme to promote research activities in the various areas of Electrical Engineering.

PATRON:

Prof. Chitta Ranjan Mohanty
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Mr. Bibhuti Bhusan Behera, Asst. Prof.



AICTE Training and Learning (ATAL) Academy



**Faculty Development Programme (FDP)
Under AICTE Training and Learning (ATAL)
Academy on**

MITIGATING CLIMATE CHANGE THROUGH SUSTAINABLE ELECTRICAL ENGINEERING SOLUTIONS

During

**20-01-2025 to 25-01-2025:
Online (6.00 pm – 9.00 pm)**



**Organized by
Department of Electrical Engineering
Parala Maharaja Engineering College,
Berhampur, Odisha-761003, India.
Website: www.pmec.ac.in**

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ABOUT THE PROGRAM

"Mitigating Climate Change through Sustainable Electrical Engineering Solutions" is to leverage advancements in electrical engineering to reduce the environmental impact of energy systems and promote sustainable practices that help address climate change. This goal focuses on developing, implementing, and optimizing technologies that lower carbon emissions, improve energy efficiency, and integrate renewable energy sources. The key objective of the program is to:

Develop electrical engineering solutions that enable the efficient integration of renewable energy sources like solar, wind, hydro, and geothermal into the existing energy grid.

Improve grid infrastructure to support distributed and intermittent renewable energy sources.

Create smart grid systems that enhance the reliability, resilience, and efficiency of energy distribution.

Design and implement energy-efficient electrical systems in buildings, industries, and transportation, reducing overall energy consumption.

Innovate energy-saving technologies in electrical appliances, motors, and industrial equipment. Promote the use of energy-efficient lighting, heating, and cooling systems, including LED lighting and advanced HVAC systems.

Create efficient and cost-effective energy storage technologies (e.g., batteries, supercapacitors) to store renewable energy for use during periods of high demand or low production.

Enhance grid-scale storage solutions to support renewable energy integration and improve grid stability. Investigate alternative storage methods like

hydrogen storage or pumped hydro storage. Promote the adoption of electric vehicles (EVs) and the development of EV infrastructure, including charging stations and fast-charging networks. Integrate renewable energy and energy storage systems to reduce the reliance on carbon-intensive energy sources in industrial operations.

This FDP is designed to address mitigating climate change through sustainable electrical engineering solutions and to accelerate the transition to a low-carbon, sustainable energy future by utilizing cutting-edge electrical engineering innovations that not only reduce the environmental footprint but also drive economic growth and improve quality of life globally.

ATAL ACADEMY

AICTE Training and Learning (ATAL) Academy is established with the vision "to empower faculty to achieve goals of higher education such as access, equity and quality". AICTE is committed for development of quality technical education in the county by initiating various schemes launched by Govt. of India, Ministry of Education. Council understands that there is a need of the day to train the young generation in skill sector and having faculty and technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies

RESOURCE PERSONS

- Prof. Akhtar Kalam, Emeritus Professor, Victoria University, Melbourne, Australia
- Dr. M.P Selvan, Professor, NIT Tiruchirappalli
- Dr. S. Senthil Kumar, Professor, NIT Tiruchirappalli
- Dr. Franco Fernando, Professor, Finis Terrae University Santiago, Chile

- Dr. D ELANGO VAN, Professor, VIT University, Vellore
- Dr. Ch. Murthy, Professor, NIST, Berhampur, Odisha
- Dr. S. Prabhakar Karthikeyan, Professor, Vellore Institute of Technology, Vellore, Tamil Nadu, India
- Dr. Ranjan Kumar Behera, Professor, IIT Patna
- Er. P. K. Pattanaik, Sr. GM, OPTCL, Odisha
- Er. Alok Kumar Mishra, Business Lead-Power Grid, Asia Pacific, DNV
- Er. Avilash Prasad Pansari, AGM (F&A) Bhilai Steel Plant/SAIL
- Er. Himanshu Kumar Dash, DGM, Aditya Aluminium, Odisha, India
- Dr. Sachidananda Prasad, Principal Engineer, SurrEnergy, India Pvt. Ltd

No Registration Fee

The program is open to Faculty members, Ph.D. Scholars, PG students and Industry professionals. Registration has to be done on or before January 15, 2024 through ATAL portal.

STEPS TO REGISTER:

1. Visit: <https://atalacademy.aicte-india.org/>
 2. Click: Sign up now! (or) Login to the Portal (Sign up as a participant and fill in your details.)
 3. Click on: FDP
 4. Select:- Mode: Online, Select Month: January, Thrust area: Engineering
 5. Use Ctrl+F and search for FDP Application No: 1730785576 or MITIGATING CLIMATE CHANGE THROUGH SUSTAINABLE ELECTRICAL ENGINEERING SOLUTIONS)
 6. Upload the NOC and Click on "Apply" or Click on the "+" (NOC template attached)
- The FDP will be conducted in on-line mode only.

ATAL Online 6 Day Faculty Development Programmes 2024-25 Schedule

FDP Thrust Area: Energy, Sustainability & Climate Change

FDP Title: Mitigating Climate Change through Sustainable Electrical Engineering Solutions

Start Date: 20/01/2025

End Date: 25/01/2025

Day 1 20/01/2025	Day 2 21/01/2025	Day 3 22/01/2025	Day 4 23/01/2025	Day 5 24/01/2025	Day 6 25/01/2025
<p>6:00PM to 6:30PM Inaugural Session</p>	<p>6:00PM to 7:30PM Session 3</p> <p>Topic: Optimal Scheduling of Grid Connected Microgrid Name of the Expert: Er. AVILASH PRASAD PANSARI Designation & Organization: AGM (F&A) Bhilai Steel Plant/SAIL</p> 	<p>6:00PM to 7:30PM Session 5</p> <p>Topic: Hybrid Electric and Plug-In Hybrid Electric Vehicle Topologies Name of the Expert: Dr. M.P Selvan Professor, NIT Tiruchirappalli</p> 	<p>6:00PM to 7:30PM Session 7</p> <p>Topic: Offshore Wind Grid Integration: Tackling Key Challenges for a Resilient Energy Future Name of the Expert: Er. Alok Kumar Mishra Business Lead-Power Grid, Asia pacific, DNV</p> 	<p>6:00PM to 7:30PM Session 9</p> <p>Topic: Integrating green energy into the grid: how to engineer energy homeostaticity, flexibility and resiliency in electric power distribution systems and why should electric utilities care Name of the Expert: Dr. Franco Fernando's Professor , Finis Terrae University Santiago, Chile</p> 	<p>2:00PM to 3:30PM Session 11</p> <p>Topic: Sustainable Industries and Liveable Cities Name of the Expert: Prof. Akhtar Kalam Victoria University , Melbourne, Victoria, Australia</p> 
<p>6:30PM to 8:00PM Session 1</p> <p>Topic: Power Electronics Technology for Renewable Energy Application Name of the Expert: Dr. Ranjan Kumar Behera Professor, IIT Patna</p> 	<p>7:30PM to 9:00PM Session 4</p> <p>Topic: Wireless Power Transmission(WPT) and converters for EV Name of the Expert: Dr D ELANGO VAN ,Professor, VIT University, Vellore</p> 	<p>7:30PM to 9:00PM Session 6</p> <p>Topic: Control of Power Converters for Grid-Interactive Distributed Power Generation Systems. Name of the Expert: Dr. S. Senthil Kumar Professor, NIT Tiruchirappalli</p> 	<p>7:30PM to 9:00PM Session 8</p> <p>Topic: Overview of Phasor Measurement Unit Name of the Expert: Dr. Ch. Murthy Professor, NIST, Berhampur, Odisha</p> 	<p>7:30PM to 9:00PM Session 10</p> <p>Topic: An overview of event detection approaches using synchrophasor data for power systems Name of the Expert: Dr. S. Prabhakar Karthikeyan Professor, Vellore Institute of Technology, Vellore, Tamil Nadu, India</p> 	<p>3:30PM to 5:00PM Session 12</p> <p>Topic: Roof Top Solar Installation Name of the Expert: Er. Himanshu Kumar Dash DGM, Power, Aditya Aluminium, Odisha</p> 
<p>8:00PM to 9:30PM Session 2</p> <p>Topic: Green Energy Integration through Smart Grid: A Practical solution for mitigation of climatic change. Name of the Expert: Er. P. K. Pattanaik Senior General Manager, OPTCL, Odisha, India</p> 					<p>5:00PM to 6:30PM Session 13</p> <p>Topic: Grid Impact Studies for Grid Connected Solar PV System Name of the Expert: Dr. Sachidananda Prasad Principal Engineer, SurrEnergy, India Pvt. Ltd.</p> 
					<p>6:30PM to 7:30PM:Online test & feedback</p> <p>7:30PM to 8:00PM:Valedictory Session</p>

LetterHead

Subject: NOC for Attending ATAL FDP

RefNo. _____

Date: _____

To Whomsoever It May Concern

This letter is to express No Objection on Mr./Mrs./Ms./Dr.<Participant name>in attending ATAL 6 Days Faculty Development Programme on “MITIGATING CLIMATE CHANGE THROUGH SUSTAINABLE ELECTRICAL ENGINEERING SOLUTIONS” (Application No. 1730785576) conducted by Parala Maharaja Engineering College, Berhampur during January 20-25, 2025.

This certificate is issued as per requirement of AICTE for successful conduction of ATAL Faculty Development Program.

YoursSincerely,

(Sign & Stamp)

HoI/Competent Authority
Institute Name and Address