



From the Director
School of Technology
Prof. Sunil Khanna

Cheerful greetings to all our alumni and friends from the electrical engineering department at Pandit Deendayal Petroleum University (PDU) Gandhinagar - our wonderland of technology development and engineering education. I am pleased to bring you the second edition of the Electrical departmental newsletter, **The Circuit**, describing many of the departmental activities and accomplishments since January 2020 until today.

It has been very interesting semester at PDU, as we have been engaged in searches of new faculty members in line with the students achieving higher numbers in gaining industrial placements and opting for higher studies. Meanwhile, the Electrical department continues to do what we do best: carrying out exciting research and preparing the next generation of electrical engineers to enter the workforce. Since its inception, the department has strived hard to comply with the University's vision of imparting world-class education in the field of Energy Engineering and Management. I extend my warm wishes to the department and welcome you to **The Circuit**.



From the Head
Electrical Engineering
Dr. Praghresh Bhatt

It gives me immense pleasure and joy to introduce you to another edition of our departmental newsletter: **The Circuit**. The contents of the letter have been bifurcated into two major sections: (1) *Faculty News*: faculty visits to other organizations, invited talks, lectures delivered, scientific breakthroughs in terms of publications have been highlighted; and (2) *Student Spotlight*: as the name suggests, brings forth all the achievements and accomplishments of the students, prizes won, participatory events, projects under execution, etc. The Department of Electrical Engineering (EED) was established in 2010 since the inception of School of Technology, PDU. EED offers B. Tech., M. Tech. with specialization in power systems and Ph.D. programs. The department has state-of-art laboratories with modern equipment and software package so that the students have better opportunity to learn practical aspects of engineering problems.

If you see anything in **The Circuit** that strikes a chord, please feel free to call or drop me a line at <eehod@sot.pdu.ac.in>.

PDPU’s VISION:

To be an internationally renowned & respected institution imparting excellent education & training based upon the foundation of futuristic research & innovations.

PDPU’S MISSION:

1. Undertake unique obligation for education in energy engineering and management with special responsibilities in domain specific aspects of energy & infrastructure.
2. Seek to nurture students of extraordinary motivation and ability and prepare them for lifelong learning and leadership in an increasingly knowledge driven world.
3. Envisage to establish institutes of excellence in education, competitive edge in research and real time relevance with futuristic thrusts in offering of programmes and undertaking of activities and projects.

SoT’s VISION:

To be an internationally renowned and recognized institute imparting technical education, research & training for societal impact and sustainable development.

SoT’s MISSION:

1. Undertake unique obligation for education in energy and engineering with special responsibilities in domain specific aspects of energy & infrastructure.
2. Seek to nurture students of extraordinary motivation and ability and prepare them for lifelong learning and leadership in an increasingly knowledge driven world.
3. Envisage to establish departments for excellent education, cutting edge research and training by offering programmes, to address futuristic needs.

DEPARTMENT’S VISION:

To be recognized globally for excellence in education, research and training in the field of Electrical Engineering by preparing graduates for tomorrow creating high societal impact.

DEPARTMENT’S MISSION:

1. To offer good quality under-graduate, post-graduate and doctoral programmes for preparing globally competitive graduates in electrical engineering.
2. To provide state-of-the-art resources that contribute to achieve excellence in teaching learning, research and skill development activities.
3. To impart knowledge driven, technologically delivered and research augmented excellent education.
4. To motivate the students for life-long learning and to inculcate leadership qualities in an increasingly knowledge driven world.

Mission Element	Mission Element
M1	Globally Competitive (Energy and Engineering)
M2	Skill Development
M3	Excellent Education
M4	Life-Long Learning
M5	Leadership

PROGRAM EDUCATIONAL OBJECTIVES (PEOs):

1. To prepare highly competent graduates with strong foundation in engineering and technology for successful career in industries, academics and research organizations.
2. To prepare the graduates with ability to identify, analyze, design and solve complex electrical engineering problems, based on application of basic sciences, mathematics and fundamentals of electrical engineering.
3. To prepare fundamentally strong graduates having broad knowledge in electrical engineering that can become innovators or entrepreneur to solve industrial and societal challenges.
4. To prepare graduates with holistic education approach that they should contribute ethically in multicultural and multidisciplinary groups to develop sustainable solutions for global, environmental and social issues.

PROGRAM OUTCOMES (PO):

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OUTCOMES (PSOS)

PSO1: To identify, formulate, design and investigate various problems related to electrical circuits, power electronics, electrical machines and power systems by applying fundamental knowledge of engineering and science

PSO2: To demonstrate proficiency in usage of modern hardware & software tools to model, design, simulate and analyze electrical systems for solving real world multi-disciplinary problems

PSO3: To contribute in development of smart systems, modern grid and clean energy system for societal and environmental benefits.

Lectures by Industry Experts

- ❖ Mr. Dhruvesh M. Mehta Assistant Manager –Technology TBEA Energy (India) Pvt. Ltd. Vadodara delivered a lecture on High Performance Energy efficient and low cost Transformers at Department of Electrical Engineering on 12/3/2021
- ❖ Sweta Malik Research Fellow National University of Ireland, Galway delivered a lecture on Smart grid through peer to peer power sharing at Department of Electrical Engineering on 26/3/2021
- ❖ Dr. H L kushwaha Reserach scientist Indian Agricultural Research Institute delivered a lecture on Robotic and mechatronic applications in agriculture at Department of Electrical Engineering on 27/3/2021
- ❖ Er. K M Kaushik Founder & CEO Hiresun Energy (P) Limited delivered a lecture on Solar Energy at Department of Electrical Engineering on 6/4/2021
- ❖ Mr.Chandan Kumar Manager ERLDC,POSOCO delivered a lecture on Electricity act-2003, Role and Responsibilities of LDC at Department of Electrical Engineering on 23/4/2021
- ❖ Mr. Elijah Toppo Data Scientist Airbus Group India Limited delivered a lecture on Practical applications of microcontrollers at Department of Electrical Engineering on 24/4/2021
- ❖ Mr. Sanjay Mahagaonkar General Manager Rotomotive Powerdrives India Ltd. delivered a lecture on Advanced Motors at Department of Electrical Engineering on 30/4/2021
- ❖ Mr.Surya Kumar Dy.Manager,External services BHEL,Hyderabad delivered a lecture on Practical Aspects of Synchronous Machine at Department of Electrical Engineering on 30/4/2021
- ❖ Dr. Charles S. Manager Automotive Engineering,Solutions, DANLAW, Banglore delivered a lecture on Electric Vehicels : Oppurtunities and Challanges at Department of Electrical Engineering on 30/4/2021

Workshops/STTPs attended

- ❖ Ms. Vaidehi Deshpande attended one week national level workshop on "Applications of Power Electronics to Renewable Energy sources and Power Quality Improvement Devices" organized by NIT Warangal during Jan 1-4, 2021.
- ❖ Dr. Jitendra G. Jamnani attended five days' national level workshop on "Recent Trends in Operation and Planning of Distribution System and Microgrid" organized by NIT, Tiruchirappalli (Trichy) during Jan 4-8, 2021.
- ❖ Dr. Amit V. Sant attended national level research review symposium organized at Pandit Deendayal Energy University (PDEU) on Jan 4, 2021.
- ❖ Dr. Siddharth Joshi and Dr. Amit V. Sant attended national level AICTE sponsored short term training program on the Role of IoT in Renewable Energy sources driving Electrical power Grids organized by Department of Electrical and Electronics Engineering, New Horizon College of Engineering, Bengaluru, in association with Quarbz Info Systems, Kanpur during Jan 18-23, 2021.
- ❖ Mr Nirav D. Karelia participated in national level workshop on Modern Embedded Systems and Computing: challenges and opportunities organized by Quantum University, Roorkee on Feb 19, 2021.
- ❖ Mr Nirav D. Karelia participated in national level workshop on Solar PV Systems and Innovative Mounting organized by GERMI, Gandhinagar during Feb 22-23, 2021.
- ❖ Mr Nirav D. Karelia participated TEQUIP III short term training program on Renewable Energy Technologies organized by BITS Pilani during Feb 26- Mar 3, 2021.
- ❖ Dr. Leena Santosh participated in national level workshop on women empowerment at International Automobile Centre for Excellence at Gandhinagar during Mar 4-5, 2021.
- ❖ Dr. Leena Santosh participated in national level workshop on Restructured Electricity Supply System: Operation and Planning organized by MNIT Jaipur during Mar 15-19, 2021.
- ❖ Mr Nirav D. Karelia participated in national level workshop on Electrical Vehicle Evolution-Impact on Power Grid organized by AICTE during Mar 22-27, 2021.
- ❖ Dr Anilkumar Markana participated in AICTE sponsored TEQUIP-III, on Control System Design- Classical and Modern with Hands-on COEP-Pune during March 22-27, 2021.

- ❖ Dr VSKV Harish participated in faculty development program on ADVANCES IN RENEWABLE ENERGY & SMART GRID INTEGRATION organized by Amity University during May 28-Jun 3, 2021.

Invited Talks / Guest Lectures Delivered

- ❖ Dr. Bhinal Mehta delivered an invited lecture on “Modelling, Simulation and Analysis of Wind Turbine Generating System” at GUJCOST sponsored 2-days workshop “Analysis, Modelling and Simulation of Smart Grid Protection Issues using PSCAD Software” organised by Electrical Engineering Department, Indus University on 1/22/2021
- ❖ Dr. Siddharth Joshi delivered an invited lecture on “Introduction and Sensitization Session on Climate Change and Briefing of Renewable Energy Technologies” at IETE Student day workshop organised by The Institution of Electronics and Telecommunication Engineers, Rajkot on 2/2/2021
- ❖ Dr. Praghesh Bhatt delivered an invited lecture on “Power Flow and Voltage Control in Power Systems - Time Series Simulation” at Workshop organised by Two-Days Workshop on
- ❖ “Power System Analysis Software” organized by Department of Electrical Engineering, Pandit Deendayal Energy University, on 2/25/2021
- ❖ Dr. Praghesh Bhatt delivered an invited lecture on “Power System Stability Analysis in Power World Software” at Workshop organised by Department of Electrical Engineering, Pandit Deendayal Energy University, on 2/26/2021
- ❖ Dr. Siddharth Joshi delivered an invited lecture on “Advancement in Hybrid Renewable Energy Systems and Challenges” at Webinar organised in collaboration with the Institution of Engineering, Saurashtra Local Centre, (IE SLC) and Department of Electrical Engineering, Pandit Deendayal Energy University, Gandhinagar on 3/4/2021
- ❖ Dr. Praghesh Bhatt delivered an invited lecture on “Integration of Distributed Energy Resources: Challenges and Solutions” at Webinar organised in collaboration with the

Institution of Engineering, Saurashtra Local Centre, (IE SLC) and Department of Electrical Engineering, Pandit Deendayal Energy University, Gandhinagar on 3/4/2021

- ❖ Dr. Leena Santosh delivered an invited lecture on “EHV Transmission Line and it’s significance” at Webinar organised by Government Polytechnic Gandhinagar on 3/15/2021
- ❖ Dr. Siddharth Joshi delivered an invited lecture on “Wind Energy Conversion Systems & its Applications” at Subject Expert organised by Electrical Engineering Department, Shankersinh Vaghela Bapu Institute of Technology, Gandhinagar on 3/17/2021
- ❖ Dr Siddharth Joshi delivered an invited lecture on “Simulink and its Application in Power Electronics- Hands on Session: MATLAB Tool and Its Application” at GUJCOST sponsored e-Workshop organised by Sankalchand Patel University, Visnagar on 4/16/2021
- ❖ Dr. Meera Karamta delivered an invited lecture on “Introduction to Machine Learning and Artificial Intelligence” at Webinar :Machine Learning for Design and Discovery of Materials for Energy Conversion and Storage organised by Department of Solar Energy, SoT, PDEU on 5/12/2021
- ❖ Dr Siddharth Joshi delivered an invited lecture on “Solar Photovoltaics design and application” at Vigyan Gurjari in collaboration with GTU organised by Vigyan Gurjari & GTU on 5/13/2021
- ❖ Dr Siddharth Joshi delivered an invited lecture on “Implementation of Hybrid Renewable Power Generation Systems – case studies” at Lecture series on "R&D Opportunities in Emerging Smart Electrical Power Systems" organised by Dr Praghmesh Bhatt & Dr Siddharth Joshi PDEU on 6/18/2021
- ❖ Dr. Anilkumar Markana delivered an invited lecture on “Model Predictive Control (MPC) & it’s Applications in Electrical system” at Lecture series on "R&D Opportunities in Emerging Smart Electrical Power Systems" organised by Dr Praghmesh Bhatt & Dr Siddharth Joshi PDEU on 6/24/2021

- ❖ Dr Siddharth Joshi delivered an invited lecture on “Recent advancements in photovoltaic system” at AICTE-ATAL on “ Role of renewable energy sources in power system” organised by GEC Patan ATAL Faculty Development Program on 7/5/2021
- ❖ Dr Praghmesh Bhatt delivered an invited lecture on “Distributed generation using renewable energy sources” at AICTE-ATAL on “ Role of renewable energy sources in power system” organised by GEC Patan ATAL Faculty Development Program on 7/5/2021

Events Organized at the Department

- ❖ Dr. Siddharth Joshi & Dr. Praghmesh Bhatt organized a National Webinar on Circular Economy with Waste to Energy Generation and Waste as Commodity during 17.02.2021 to 17.02.2021 in association with Kuits Solicitors, UK . Total 45 participants attended the event.
- ❖ Dr Praghmesh Bhatt & Dr Anil Markana organized a National Workshop on Power System Analysis Software Under IEEE students chapters during 25.02.2021 to 26.02.2021.
- ❖ Dr. Siddharth Joshi, Dr. Praghmesh Bhatt, & Dr. Ashit Pandya, Chairman IEI Saurashtra Local Centre, IE organized a National Webinar on Advancement in Hybrid Renewable Energy Systems and Challenges for their Grid Integration during 04.03.2021 to 04.03.2021. Total 60 participants attended the event.
- ❖ Dr. Meera Karamta organized a National Webinar on Industrial Webinar on High Performance Energy efficient and low cost Transformers on 12.03.2021 in association with TBEA Energy (India) Pvt. Ltd. Vadodara. Total 40 participants attended the event.
- ❖ Dr Siddharth Joshi (EED) & Dr Mohendra Roy (ICT) organized a National Workshop on Recent Trends In Artificial Intelligence during 09.04.2021 to 10.04.2021 in association with Charles University, Prague, The Czech Republic, DICT, COE, Pune. Total 40+ participants attended the event.
- ❖ Dr Amit Sant organized a National Webinar on Electric Vehicle Overview & Career Opportunities on 30.04.2021. Total 50+ participants attended the event.

- ❖ Dr Pragnesh Bhatt organized a National Webinar on Counseling for PhD – Electrical Engineering Admission on 06.05.2021. Total 30 participants attended the event.
- ❖ Dr Pragnesh Bhatt organized a National Lecture Series/Webinar on R&D Opportunities in Emerging Smart Electrical Power Systems during 17.06.2021 to 18.06.2021. Total 163 participants attended the event.
- ❖ Dr. Siddharth Joshi organized a National Webinar on Recent Trends in Computational Intelligence and Internet of Things during 21.06.2021 to 25.06.2021. Total 27 participants attended the event.
- ❖ Dr Pragnesh Bhatt organized a National Lecture Series/Webinar on R&D Opportunities in Emerging Smart Electrical Power Systems during 24.06.2021 to 25.06.2021. Total 28 participants attended the event.

Publications – Journals

- ❖ Dr Pragnesh Bhatt “Residual Stress Monitoring for ITER Diagnostic Windows,” IEEE Transactions on Instrumentation and Measurement, Mar. 2021
- ❖ Dr. Meera Karamta and Dr. Jitendra Jamnani “Dynamic state estimation of multi-machine power system with UPFC using EKF algorithm,” Indonesian Journal of Electrical Engineering and Computer Science, Feb. 2021
- ❖ Dr. Bhinal Mehta and Rahul Soni “Review on asset management of power transformer by diagnosing incipient faults and faults identification using various testing methodologies,” Engineering failure analysis, Aug. 2021
- ❖ Bhinal Mehta, Siddharth Joshi and Akash Samrat “Analysis and Modeling of AC and DC Micro-Grids for Prosumer Based Implementation,” JOAPE, Dec. 2020
- ❖ Bhinal Mehta and Prakruti Shah “Mitigation of grid connected distributed solar photo voltaic fluctuations using battery energy storage station and microgrid,” International Journal of Power and Energy Conversion, Aug. 2020

- ❖ Dr. Anilkumar Markana and Dr. Praghnesh Bhatt “Multi-objective optimization based optimal sizing & placement of multiple distributed generators for distribution network performance improvement,” RAIRO-Oper. Res. Journal, May.2021
- ❖ T.V.Pavan Kumar and Vivek Pandya “Machine Learning Based Transmission Line Fault Analysis by Using Single Ended parameters,” Security and Communication Networks , Mar. 2021
- ❖ Dr Amit Sant, Dr Vivek Pandya and MR Arpit Patel “Analysis of Multiconverter - UPQC Configuration with Different Filtering Schemes for Shunt Compensation,” TURCOMAT, Jul. 2021

Publications – Conferences

- ❖ Dr Amit Sant “Operational Amplifier Based Low Power dc-ac Converter for Domestic Applications,” 4th International IEEE Conference on Trends in Electronics and Informatics (ICOEI), SCAD College of Engineering and Technology, 2020.
- ❖ Dr Amit Sant “Analysis of a New Symmetric Multilevel Inverter Topology with Reduced Component Count,” International Conference on Emerging Trends in Information Technology and Engineering (IC-ETITE), Vellore Institute of Technology, 2020.
- ❖ Amit V. Sant “Analysis of State of Health Estimation for Lithium ion Cell using Unscented and Extended Kalman Filter,” 2nd International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE-2021), Pandit Deendayal Energy University, 2021
- ❖ Amit V. Sant “Control of 7-Level Simplified Generalized Multilevel Inverter Topology for Grid Integration of Photovoltaic System,” 2nd International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE-2021), Pandit Deendayal Energy University, 2021
- ❖ Amit V. Sant “A Review of Z-Source Inverter Topologies in Grid Tied Solar Photovoltaic System,” 2nd International Conference on Mathematical Modeling, Computational Intelligence

Techniques and Renewable Energy (MMCITRE-2021), Pandit Deendayal Energy University, 2021

- ❖ Amit V. Sant “Grid-Tied PV System Operating as Shunt Active Filter with Exponential VSSLMS Based Fundamental Active Current Extractor,” 2nd International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE-2021), Pandit Deendayal Energy University, 2021
- ❖ Amit V. Sant “Combined Second Order Generalized Integrator –ADALINE Algorithm based Fundamental Active Current Extraction for Shunt Active Filtering,” 2nd International Conference on Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy (MMCITRE-2021), Pandit Deendayal Energy University, 2021
- ❖ Amit V. Sant “Control of PM Synchronous Motor with Hybrid Speed Controller with Gain Scheduling for Electric Propulsion,” International Conference on Innovations in Clean Energy Technologies (ICET-2020), Maulana Azad National Institute of Technology, Bhopal, 2021
- ❖ Amit V. Sant “Determining the Performance Characteristics of a White-Box Building Energy System Model and Evaluating the Energy Consumption,” International Conference on Innovations in Clean Energy Technologies (ICET-2020), Maulana Azad National Institute of Technology, Bhopal, 2021
- ❖ Dr. Anilkumar Markana “Robotic Grasp Synthesis Using Deep Learning Approaches: A Survey,” Mathematical Modeling, Computational Intelligence Techniques and Renewable Energy, PDEU, 2021
- ❖ Dr. Anilkumar Markana “Dynamic State Estimation of Multi-machine Power Network Integrated with SVC,” 3rd International Conference on Energy, Power and Environment: Towards Clean Energy Technologies, PDEU, 2021
- ❖ Dr Siddharth Joshi “Introduction to AI techniques for Photovoltaic Energy Conversion System,” PDEU, 2021

- ❖ Dr Siddharth Joshi “Comparative Analysis of MPPT Algorithms for Small Scale Wind Energy System,” International Conference on Sustainable Energy and Future Electric Transportation, PDEU, 2021
- ❖ Dr Siddharth Joshi “Coordinated Control of Hybrid Renewable Power Generating System Applicable for DC Microgrid,” Green Technologies for Sustainable Development, PDPU, 2021
- ❖ Dr. Leena Santosh “Hybrid Machine Learning Model for Forecasting Solar Power Generation,” International Conferene on Smart Grids and Energy Systems, PDPU, 2021
- ❖ Dr. Jitendra Jamnani “Optimized Design and Analysis of Grounding Grid for 400 kV EHV Air Insulated Substation,” 2nd International Conference for Emerging Technology (INCET) Belgaum, India, PDPU, Gandhinagar, 2021
- ❖ Nirav Karelia “Power Quality Improvement for Grid Integrated Renewable Energy Sources: A Comparative analysis of UPQC Topologies,” 2021
- ❖ Nirav Karelia “Introduction to AI techniques for Photovoltaic Energy Conversion System,” 2021
- ❖ Vipin Shukla “Input Parameter Optimization with Simulated Annealing Algorithm for Predictive HELEN-I Ion Source,” Congress on Intelligent Systems 2020, Pandit Deendayal Petroleum University, 2021
- ❖ Vipin Shukla “Plasma Density Prediction for Helicon Negative Hydrogen Plasma Source Using Decision Tree and Random Forest Algorithm,” Congress on Intelligent Systems, Pandit Deendayal Petroleum University, 2021
- ❖ Vipin Shukla “Design of Novel Time Monitored Touchless Operation using 555 Timer for Automatic Dispenser,” 2020 5th IEEE International Conference on Recent Advances and Innovations in Engineering (ICRAIE), Pandit Deendayal Petroleum University, 2021
- ❖ Vipin Shukla “Prediction of Negative Hydrogen Ion Density in Permanent Magnet-Based Helicon Ion Source HELEN using Deep Learning Techniques,” 7th Int. Symp. on Negative Ions, Beams and Sources (NIBS'20), Pandit Deendayal Petroleum University, 2021

Posters Gallery – Webinars

SOT SCHOOL OF TECHNOLOGY

PDPU PANDIT DEENDAYAL PETROLEUM UNIVERSITY


WEBINAR

WASTE TO ENERGY GENERATION ON CIRCULAR ECONOMY PERSPECTIVE


BY DEPARTMENT OF ELECTRICAL ENGINEERING

17TH FEBRUARY 2021, WEDNESDAY | 16:00 to 17:15 IST


SPEAKERS



CHARLIE TOMLINSON
Head of Construction,
Engineering and Energy,
Kults Solicitors, UK




DAVE MESECK
Synenergy Global,
UK



ADITYA NAIK
Chief Technical Officer,
Sinoman Flofix,
UK

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IEI, Saurashtra Local Centre

PDPU PANDIT DEENDAYAL PETROLEUM UNIVERSITY

WEBINAR

Advancement in Hybrid Renewable Energy Systems and Challenges for their Grid Integration

by Department of Electrical Engineering, School of Technology, PDPU in collaboration with Institution of Engineers (IE), Saurashtra Local Centre (IEI)

4TH MARCH 2021, THURSDAY | 11:30 AM to 1:45PM IST

SPEAKERS



DR. SIDDHARTH JOSHI
Assistant Professor,
Dept. of Electrical Engineering,
School of Technology, PDPU



DR. PRAGNESH BHATT
Head & Associate Professor,
Dept. of Electrical Engineering,
School of Technology, PDPU



MODERATOR
DR. ASHIT PANDYA
Principal AVPTI Rajkot & Chairman,
IEI Saurashtra Local Centre

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PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY
GANDHINAGAR, GUJARAT
Formerly Pandit Deendayal Petroleum University (PDPU)
NAAC 'A' Grade

INDUSTRIAL WEBINAR

High Performance Energy efficient and Low Cost Transformers

BY DEPARTMENT OF ELECTRICAL ENGINEERING

12TH MARCH, 2021 | 11:00 AM to 12:30 PM

SPEAKERS



Mr. Dhruvesh Mehta
Assistant Manager
TBEA Energy (India) Pvt. Ltd.
Vadodara



Dr. Jitendra Jamnani
Associate Professor,
Department of Electrical Engg.,
SOT, PDEU

COORDINATORS

Dr. Jitendra Jamnani | Dr. Meera Karamta

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PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY
Formerly Pandit Deendayal Petroleum University (PDPU)

WEBINAR


ROAD MAP TO BECOME A SUCCESSFUL ENGINEER

2ND APRIL, 2021, FRIDAY
11:00 AM ONWARDS


SPEAKERS



Dr. Meera Karamta
Assistant Professor,
Dept. of Electrical Engineering,
SOT PDEU




Dr. Alok Jain
Assistant Professor,
Dept. of Electrical Engineering,
SOT PDEU




Dr. Leena Santosh
Assistant Professor,
Dept. of Electrical Engineering,
SOT PDEU


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IEEE Computational Intelligence Society



PDEU
PANDIT DEENDAYAL ENERGY UNIVERSITY
GANDHINAGAR, GUJARAT
Formerly Pandit Deendayal Petroleum University (PDPU)

WEBINAR

2 Days National Workshop in collaboration with IEEE Computational Intelligence Society, Gujarat Chapter

BY DEPARTMENT OF INFORMATION AND COMMUNICATION TECHNOLOGY AND ELECTRICAL ENGINEERING

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE

9TH - 10TH APRIL, 2021 | 10:00 AM to 4.00 PM IST

SPEAKERS

Dr. Anil Marakna
Assistant Prof.
Dept. of Electrical Engineering,
School of Technology, PDEU

Mr. Dhaval Vyas
PhD Scholar,
Dept. of Electrical Engineering,
School of Technology, PDEU

Dr. Vibha Vyas
Associate Professor,
E&TC department,
College of Engineering Pune

Dr. Ashim Chakravarty
Postdoctoral Fellow,
Charles University, Prague,
The Czech Republic


ORGANIZER


Dr. Siddharth Joshi
Asst. Professor
Dept. of Electrical Engineering,
PDEU
Executive committee Member and
Membership development Chair of
IEEE CIS, Gujarat Chapter

CO-ORGANIZER


Dr. Mohendra Roy
Asst. Professor
Dept. of Information and Communication
Technology, PDEU
Executive committee Member and Treasure of
IEEE CIS, Gujarat Chapter

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PDEU
PANDIT DEENDAYAL ENERGY UNIVERSITY
Formerly Pandit Deendayal Petroleum University (PDPU)

WEBINAR


EMERGING TECHNOLOGIES

1ST MAY, 2021, SATURDAY
11:00 AM ONWARDS


SPEAKERS



Topic:
Renewable Energy and Electric Vehicles
DR. AMIT SANT





Topic:
Artificial Intelligence and Machine Learning
DR. PAAWAN SHARMA



Topic:
Smart Cities
DR. ANURAG KANDYA

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PDEU
PANDIT DEENDAYAL ENERGY UNIVERSITY
GANDHINAGAR, GUJARAT
Formerly Pandit Deendayal Petroleum University (PDPU)

WEBINAR

ELECTRIC VEHICLES

9TH MAY, 2021 | SUNDAY | 11:00 AM - 12:00 PM

SPEAKERS



PROF. PRAGNESH BHATT
Associate Professor,
Electrical Engg.
SOT, PDEU



DR. AMIT SANT
Associate Professor,
Electrical Engg.
SOT, PDEU



DR. KRUNAL MEHTA
Assistant Professor,
Mechanical Engg.
SOT, PDEU







PDEU
PANDIT DEENDAYAL ENERGY UNIVERSITY



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WEBINAR

RENEWABLE ENERGY INTEGRATED SMART ELECTRICAL POWER SYSTEMS

5th June 2021, 11:00 AM to 12:30 PM

SPEAKERS:



Dr. Bhinal Mehta



Prof. Indrajit Mukhopadhyay

MODERATOR:



Dr. J. Jamnani



Prof. Abhijit Ray

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PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY
SOT SCHOOL OF TECHNOLOGY

SMART GRIDS

Speakers:



Dr. Pragnesh Bhatt
(Associate Professor,
School of Technology, PDEU)



Dr. Amit Sant
(Associate Professor,
School of Technology, PDEU)

JUNE 12 2021 **11 AM onwards**

[Register Now](#)  



PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY
SOT SCHOOL OF TECHNOLOGY

Sunday, 13 June 2021 **11:00 AM - 1:30 PM**

Research Avenues in Electrical Engineering for Ph.D.

"Organised By Department of Electrical Engineering"

SPEAKERS



Dr. Pragnesh Bhatt
(Associate Professor & Head,
SOT, PDEU)



Dr. Vivek Pandya
(Professor, SOT, PDEU)



Dr. Jitendra Jamnani
(Associate Professor, SOT, PDEU)



Dr. Amit V. Sant
(Associate Professor, SOT, PDEU)



Dr. Anilkumar Markana
(Assistant Professor, SOT, PDEU)



Dr. Bhinal Mehta
(Assistant Professor, SOT, PDEU)



Dr. Siddharth Joshi
(Assistant Professor, SOT, PDEU)

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PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY
Formerly Pandit Deendayal Petroleum University (PDPUI)
UGC RECOGNIZED

IEEE Computational Intelligence Society
Gujarat Chapter

Present a **Virtual Summer School** on Recent Trends In **COMPUTER INTELLIGENCE & INTERNET OF THINGS**

21st - 25th JUNE 2021

Four Hands on Session (2 hrs each)

Commencement of Participation: **21st May 2021 onwards**

Organized by **Dr. Siddharth Joshi**
Asst. Prof., EED

IEEE Member ₹ 236 | **Non IEEE Member ₹ 354**

*18% GST is included in the charges




PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY
SOT SCHOOL OF TECHNOLOGY

WEBINAR

RENEWABLE ENERGY

22nd May 2021, 11:00 AM Onwards

SPEAKERS:



Dr. Amit Sant
(Associate Professor,
School of Technology, PDEU)



Dr. Siddharth Joshi
(Assistant Professor,
School of Technology, PDEU)



Dr. Garlapati Nagababu
(Assistant Professor,
School of Technology, PDEU)

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PDEU PANDIT
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Lecture Series on “Research & Development Opportunities in Emerging Smart Electrical Power Systems - For Graduating and Graduated Students”

By Department of Electrical Engineering, School of Technology.

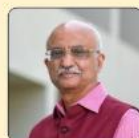
**Timeline : 4 Weeks, 16 Sessions
(2 Sessions per week- Thursday and Friday)**

Starting from 17th June 2021

Online Mode



Chief Patron:
Dr S Sundar Manoharan
Director General, PDEU



Patron:
Dr Sunil Khanna, Director
School of Technology



Dr Praghnesh Bhatt
Associate Professor & HoD, EED

Coordinators:




Dr Siddharth Joshi
Assistant Professor, EED

NO REGISTRATION FEES

Lecture Series Schedule :


Week No	Theme	Date	Day	Time	Session No	Name of Speaker	Title of Talk
Week 1	Operation and Control of Distributed Energy Resources in Microgrid	17/6/2021	Thursday	10:00 AM - 11:30 AM	Session 1	Dr. Bhinal Mehta	Modelling, Simulation and Analysis of Wind Turbine Generating System using MATLAB/Simulink
				11:45 AM - 01:15 PM	Session 2	Dr. Praghnesh Bhatt	Optimal Active and Reactive Power Set Points Determination for Distributed Energy Resources using PSO
		18/6/2021	Friday	10:00 AM - 11:30 AM	Session 3	Dr. Siddharth Joshi	Implementation of Hybrid Renewable Power Generation System - A Case Study
				11:45 AM - 01:15 PM	Session 4	Mr Vipin Shukla	Modelling an EV and designing its controller using MATLAB/Simulink
Week 2	Power Electronics and Control Applications in Electrical Engineering	24/6/2021	Thursday	03:00 PM - 04:30 PM	Session 5	Dr. Amit V. Sant	Grid Tied Renewable Energy Systems
				04:45 PM - 06:15 PM	Session 6	Dr. Anilkumar Markana & Mr. Sreejith R.	Model Predictive Control and its Applications in Electrical System
		25/6/2021	Friday	03:00 PM - 04:30 PM	Session 7	Mr. Sreejith R. & Dr. Amit V. Sant	Control of Electric Drives
				04:45 PM - 06:15 PM	Session 8	Ms Vaidehi Deshpande	Active Power Filters for Power Quality Improvement
Week 3	Artificial Intelligence in Electrical Engineering	1/7/2021	Thursday	03:00 PM - 04:30 PM	Session 9	Dr. Meera Karamta	Load Forecasting with MATLAB
				04:45 PM - 06:15 PM	Session 10	Mr. Pavan Venkata	Machine Learning based fault classification in power system
		2/7/2021	Friday	03:00 PM - 04:30 PM	Session 11	Dr. Bhinal Mehta	Modelling and Simulation of 100 kV grid connected PV array using MATLAB Simulink.
				04:45 PM - 06:15 PM	Session 12	Dr. Leena Santosh	Solar Irradiance and Solar Power Forecasting using Machine Learning: Implementation using Python
Week 4	Emerging Topics in Power Systems	8/7/2021	Thursday	03:00 PM - 04:30 PM	Session 13	Dr. Jitendra Jamnani	Flexible AC Transmission Systems
				04:45 PM - 06:15 PM	Session 14	Dr. Vivek Pandya	Research - Tips, Techniques & Topics
		9/7/2021	Friday	03:00 PM - 04:30 PM	Session 15	Dr. Alok Jain	Monitoring, Control and Protection of Distribution Networks through Smart Metering Scheme
				04:45 PM - 06:15 PM	Session 16	Ms. Vima Mali	Importance of thermal management in hybrid energy storage system for electric vehicles

e-certificate will be issued to participants in two categories (i) for attending all 4 sessions in a week (ii) for attending all 16 sessions of lecture series



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Lecture Series on "Research & Development Opportunities in Emerging Smart Electrical Power Systems"

- For Graduating and Graduated Students"

By Department of Electrical Engineering, School of Technology.




WEEK 1 : "Operation and Control of Distributed Energy Resources in Microgrid"
 17th - 18th June 2021



DR. BHINAL MEHTA

Modelling, Simulation and Analysis of Wind Turbine Generating System using MATLAB/Simulink

17th June 2021, Thursday
Session 1: 10:00 AM - 11:30 AM




DR PRAGHNESH BHATT

Optimal Active and Reactive Power Set Points Determination for Distributed Energy Resources using PSO

17th June 2021, Thursday
Session 2: 11:45 AM - 01:15 PM

Implementation of Hybrid Renewable Power Generation System - A Case Study


18th June 2021, Friday
Session 3: 10:00 AM - 11:30 AM



DR. SIDDHARTH JOSHI

Modelling an EV and designing its controller using MATLAB/Simulink



18th June 2021, Friday
Session 4: 11:45 AM - 01:15 PM



MR VIPIN SHUKLA

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- For Graduating and Graduated Students"

By Department of Electrical Engineering, School of Technology.



WEEK 2 : "Power Electronics and Control Applications in Electrical Engineering"
 24th & 25th June 2021



DR. AMIT V. SANT

Grid Tied Renewable Energy Systems

24th June 2021, Thursday
Session 1: 03:00 PM - 04:30 PM



DR. ANILKUMAR MARKANA



MR. SREEJITH R.

Model Predictive Control and its Applications in Electrical System

24th June 2021, Thursday
Session 2: 04:45 PM - 06:15 PM

Control of Electric Drives

25th June 2021, Friday
Session 3: 03:00 PM - 04:30 PM



DR. AMIT V. SANT



MR. SREEJITH R.

Active Power Filters for Power Quality Improvement

25th June 2021, Friday
Session 4: 04:45 PM - 06:15 PM




MS. VAIDEHI DESHPANDE


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By Department of Electrical Engineering, School of Technology.




WEEK 3 : "Artificial Intelligence in Electrical Engineering"
1st & 2nd July 2021



Dr. Meera Karamta

Load Forecasting with MATLAB

1st July 2021, Thursday
Session 1: 03:00 PM - 04:30 PM




MR. PAVAN VENKATA

Machine Learning based fault classification in power system

1st July 2021, Thursday
Session 2: 04:45 PM - 06:15 PM


Modelling and Simulation of 100 kV grid connected PV array using MATLAB Simulink



DR. BHINAL MEHTA

2nd July 2021, Friday
Session 3: 03:00 PM - 04:30 PM




Solar Irradiance and Solar Power Forecasting using Machine Learning: Implementation using Python




DR. LEENA SANTOSH

2nd July 2021, Friday
Session 4: 04:45 PM - 06:15 PM

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Lecture Series on “Research & Development Opportunities in Emerging Smart Electrical Power Systems” - For Graduating and Graduated Students”

By Department of Electrical Engineering, School of Technology.




WEEK 4 : "Emerging Topics in Power Systems"
8th & 9th July 2021



DR. JITENDRA JAMNANI

Flexible AC Transmission Systems


8th July 2021, Thursday
Session 1: 03:00 PM - 04:30 PM



DR. VIVEK PANDYA

Research - Tips, Techniques & Topics


8th July 2021, Thursday
Session 2: 04:45 PM - 06:15 PM



DR ALOK JAIN

Monitoring, Control and Protection of Distribution Networks through Smart Metering Scheme

9th July 2021, Friday
Session 3: 03:00 PM - 04:30 PM



MS VIMA MALI

Importance of thermal management in hybrid energy storage system for electric vehicles

9th July 2021, Friday
Session 4: 04:45 PM - 06:15 PM

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