

CURRICULUM VITAE

Name: Hemani Paliwal

Date of Birth: February 1, 1988

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Current Position

Guest Faculty

Department of Electrical Engineering

College of Technology and Engineering, MPUAT

Udaipur, Rajasthan, India

Academic Record

Degree	Institute/University	Year	CGPA/%
Ph.D Electrical Engineering	College of Technology and Engineering, MPUAT, Udaipur	2018-2021 (Thesis Submitted)	8.30
M.E. Power system and Control	College of Technology and Engineering, MPUAT, Udaipur	(2010-2012)	7.91
B.Tech (2006-2010) Electrical Engineering	Geetanjali Institute of Technical Studies, Rajasthan Technical University, Kota	2006-2010	74.05
Senior School Exam (Physics, Chemistry, Biology and Maths)	Kendriya Vidhyalaya No.1, Pratap Nagar, Udaipur (CBSE)	2005-2006	74.60
Secondary School Exam	Guru Nanak Public School, Udaipur (RBSE)	2003-2004	77.33
Other	GATE 2010 Electrical Engineering	GATE Score 340	AIR 6939

Experience Summary

- 6 Years experience of teaching as Guest Faculty in Department of Electrical Engineering, College of Technology and Engineering, Udaipur from July 2012 to June 2018.
- Research Assistantship during Ph.D from January 2019-March 2021.
- Teaching Assistant during M.Tech February 2012-June 2012

Technical Skills

MATLAB/Simulink Modeling, HOMER pro software, Genetic Algorithm Programming.

Projects and Thesis

- During PhD, worked on “**Multi-Objective Optimization of Hybrid Renewable Energy Sources in a distributed Generation system using Artificial Intelligent Technique**”.
- During M.E. (Power system and Control), worked on “**Reactive Power Compensation of Non-Linear Industrial Loads**”.

Research Publications:

Conference Publications:

1. Hemani Paliwal and Vikramaditya Dave, “**Economic analysis of hybrid renewable energy sources using Homer**” International Conference On Advances In Power Generation From Renewable Energy Sources (APGRES 2020), held at Engineering College Banswara, Rajasthan on March 6 - 7, 2020
2. Hemani Paliwal and Vikramaditya Dave, “**Design and Optimization of Hybrid Renewable Energy Source for Economic Analysis**”, International Conference on Innovative Research in “Electrical, Electronics and Communication Technology” (ECT – 2020), Organized by “Krishi Sanskriti Publications & Dr. G. C. Mishra Educational Foundation” New Delhi, India 110068 on 7th June 2020.
3. Hemani Paliwal and Vikramaditya Dave, “**Evaluation Of Electric Vehicle Charging Cost Using Homer Grid**”, in the Congress on Intelligent Systems held online during September 05-06, 2020 in India.
4. Hemani Paliwal and Vikramaditya Dave, “**Renewable energy sources in Rajasthan for sustainable development**” International conference on Innovative Research in Renewable Energy Technologies (IRRET-2021), held at IMPS College of Engineering and Technology, Malda, West Bengal, India on 25-27 February 2021.
5. Hemani Paliwal and Vikramaditya Dave, “**Current Status and Future Potential Of Renewable Energy In Rajasthan**” International Conference on Green Energy Technology for Sustainable Development, ICGETS-2021 conducted by Jaipur Engineering College, Jaipur on 8-9 March 2021.

6. Hemani Paliwal and Vikramaditya Dave, “**Analysis of Hybrid Renewable Energy Source for supply of an Academic Building**”, National Conference JNANA CHILUME 2020 “Automation, control and communication” at Faculty of Engineering and Technology, JAIN (Deemed-to-be University), on 25th November 2020.
7. Hemani Paliwal and Vikramaditya Dave, “**Hybrid Renewable Energy Sources For Electric Vehicle Charging**”, National Conference JNANA CHILUME 2020 “Automation, control and communication” at Faculty of Engineering and Technology, JAIN (Deemed-to-be University), on 25th November 2020.
8. Hemani Paliwal, “**Study of Power System de-regularization- A Review**” in National Conference at MITS Gwalior held on 16-17 Dec 2011.
9. Hemani Paliwal, “**Simulation of Electric Arc Furnace using MATLAB Simulink**” paper presented at International Conference on recent trends of computer Technology in Academia, JanardanRai Nagar University, 21-23 April 2012.
10. Hemani Paliwal, “**Present Scenario of Indian Power System**”, Paper presented at National Conference on Recent Advancement on Power system engineering , 4-5 Feb 2012.
11. Hemani Paliwal, “**Increasing output of cement grinding in Ball-Mill Case Study**” paper presented at International Academic conference on electrical, Electronics and communication engineering, 2 Aug 2015.
12. Hemani Paliwal, “**Solar Battery Charger Design** ” paper presented at National Seminar on Power Generation from renewable energy sources held at College of technology and Engineering and sponsored by Maharana Pratap University of Agriculture and Technology, February 2-3,2012.
13. Hemani Paliwal, “**Nanotechnology- A innovative solution to energy sector problems for developing Countries**”, paper presented at National Seminar on Nanotechnology for Energy and Power sector (NSNEP-2017) held at College of technology and Engineering and sponsored by Maharana Pratap University of Agriculture and Technology, November 16-17, 2017.

Journal Publication:

1. Hemani Paliwal and Vikramaditya Dave, “**Renewable Energy Sources in Rajasthan for Sustainable Development**”, IOP Science (Scopus Indexed), will be published in May 2021.
2. Hemani Paliwal and Vikramaditya Dave, “**Tools and Techniques for optimization of hybrid renewable energy sources: A Review**”, (Provisionally Accepted by IJRET).

3. Sujit Kumar, Hemani Paliwal, Sripati Vyas, Sasanka Sekhor, Vikramaditya Dave, Srawan Singh Rao, “**Dynamic Wireless Power Transfer in Electric Vehicles**”, Journal of Physics: Conference series, vol.1854 (2021) 012014. (Scopus Indexed)

Book Chapter

1. Hemani Paliwal and Vikramaditya Dave, “**Pathways of Renewable energy sources in Rajasthan for Sustainable Growth**”, RESGA-2021, Scrivener Publishing LLC, Wiley Publications. (Published in October 2021).
2. Hemani Paliwal and Vikramaditya Dave, “**Optimization of Hybrid Renewable Energy Sources using Artificial Intelligent Techniques**”, (Provisionally Accepted for publication in November 2021).

Faculty Development Programmes:

1. FDP in **Entrepreneurship** organized at CTAE, MPUAT, sponsored by Department of Science and Technology, Govt. of India on 2nd -14th January 2017 (2 Week).
2. FDP programme on **Data Science**, CTAE, MPUAT, sponsored by AICTE Training and Learning (ATAL) Academy on 23rd -27th September 2019 (5 Days).
3. FDP on **Technological Advances and Entrepreneurship in Power System and Energy Sector**, sponsored by AICTE, 18th -30th December 2017 (2 Weeks).
4. FDP programme on **Artificial Intelligence and Machine Learning** at Malaviya National Institute of Technology, Jaipur, sponsored by Electronics & ICT Academy supported by Ministry of Electronics and Information Technology, Govt. Of India on 17th -21st December 2018 (5 Days).
5. FDP programme on **ROBOTICS**, at CTAE, MPUAT, sponsored by AICTE Training and Learning (ATAL) Academy on 13th -17th January 2020 (5 days).
6. FDP Programme on **Artificial Intelligence**, at CTAE, MPUAT, sponsored by AICTE Training and Learning (ATAL) Academy on 23rd -27th September 2019 (5 Days).
7. FDP programme on **ROBOTICS**, at CTAE, MPUAT, sponsored by AICTE Training and Learning (ATAL) Academy on 11th -15th June 2020 (5 Days).
8. One week FDP programme on **Empowerment through Digital Technology & E-Learning Methodologies**, conducted by Department of Electrical & Electronics, National Institute of Engineering and Technology on 7th -12th July 2020 (one week).

9. Short Term Training Programme on **Ethics, Moral And Human Values In Technical Education System**, organized by CTAE sponsored by AICTE, 26th -31st December 2019(one week).

Seminars/ Webinars

1. National webinar on Commission for Scientific and Technical Terminology, GOVERNMENT OF INDIA on 17th -19th September 2020.

2. National Webinar on **Emerging Trends & Prospects In Higher Agriculture Education** organized by Directorate of Planning & Monitoring, Maharana Pratap University of Agriculture & Technology on 16 July 2020.

3. National webinar on “**Strengthening Agripreneurship in post covid 19**” organized by IDP NAHEP, MPUAT on 7-7-2020.

4. National Webinar on “ **Problem and Prospects of Agriculture during the Regime of Maharana Pratap** ” conducted by Maharana Pratap Shodh Peeth, Department of Extension Education, Rajasthan College of Agriculture, MPUAT, Udaipur on 06-07-2020.

5. National webinar on “**Research Paper Preparation & Publication**” organized by GHARDA Institute Of Technology on 24 May 2020.

7. Webinar on **Employability Post COVID Era : Expectations of Industry vs Education System’s Preparedness**, organized by ASSOCHAM India 10 June 2020.

8. Webinar on **Material Choices for Future Sustainable Structures** by Dr. Mahmud Ashraf (Prof. Deakin University, Australia) organized by Jaipur Engineering College And Research Centre.

9. International Webinar on **Robotics & Automation: A Communication in The Private UAV Network** Organized by Department of Electronics & Communication and Computer Science & Engineering, Manda Institute Of Technology, Bikaner on 17th March 2021.

Personal Details:

Name Hemani Paliwal

Father’s Name: Umakant Paliwal

Mother’s Name: Sheela Paliwal

Spouse Name: Vikram Paliwal