



**Program Chair | Assistant Professor**

## **Dr. Prakruti Shah**

*Electrical and Electronics Engineering Department,  
School of Engineering and Technology*

### **Qualifications**

- PhD - Electrical Engineering (Power System) from CHARUSAT
- M.E. - Electrical Engineering (Power System) from The M.S. University, Baroda
- B.E. - Electrical Engineering from BVM Engineering College, S.P University

### **Contact Details**

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### **Background**

- She joined Navrachana University in January 2016 as an Assistant Professor after having previously worked with The M.S. University of Baroda as an Assistant Professor from January 2005 to December 2015.

### **Research Interest**

- Smart Grid, Microgrid, Electrical Vehicles, Electrical Power Systems with Renewable Energy Sources & Electrical Machines

### **Work Experience**

- Dr. Prakruti Shah teaches SMART GRID & Power Systems Planning and Management to M.Tech students at Navrachana University also teaches Electrical Machines to B.Tech Electrical students. She also teaches High Voltage Engineering to final year B.Tech students. She exposes students to electrical machines fundamentals and has chosen teaching to as a way to conduct research in education.
- She has guided B.Tech & M.Tech students for their final year projects & Dissertation. She is greatly enthused by the teaching-learning process and is highly inspired by work of students. She has arranged Industrial Visit for students to enhance their knowledge.
- She taught Power Systems Planning and Management to MTech students and Advanced Electrical Machines to BTech students at the Maharaja Sayajirao University of Baroda.
- She is active member of Academic advisory board at Navrachana University. Member of KHOJ committee ( Social innovative activity at NUV ).

## Research Publications (International Journal & Conference)

1. Prakruti Shah, Bhinal Mehta, "Mitigation of grid connected distributed solar photo voltaic fluctuations using battery energy storage station and microgrid" International Journal of Energy Technology and Policy (INDERSCIENCE PUBLISHERS), SJR rating 0.17, SCOPUS Indexed), September 2020
2. Prakruti Shah, Bhinal Mehta, "Determination of Optimal Sizing Model for Battery Energy Storage System in Grid connected Microgrid", Journal of Engineering Science and Technology (JESTEC, SJR 0.23, SCOPUS Indexed), Vol. 15, Issue 2, pp. 778-791, April 2020.
3. Prakruti Shah, Bhinal Mehta, "Enhance the Performance of Grid Connected Microgrid with Solar Uncertainties by Optimal Sizing of Battery Energy Storage", International Conference on Eco Health and Environmental Sustainability, Navrachana University (in association with University of Calgary, Canada) , Vadodara, 24 to 26 February 2020.
4. Patel N. H., Shah P. and Chaudhary R., (2020), Improving Power System Security to Reduce the Energy Losses in Transmission System with the help of FACTS Devices, Internal Conference on Eco health and Environmental Sustainability, Navrachana University, Vadodara, February 24-26.
5. Prakruti Shah, Bhinal Mehta, "Optimal Scheduling of Microgrid with Renewable Energy Sources Considering Islanding Constraints", Iranian Journal of Science and Technology [SPRINGER PUBLICATION, Impact factor 0.6 (Thomson Reuters), SJR rating 0.17, SCOPUS Indexed], Vol. 44, Issue 2, pp. 805-819, August 2019.
6. Kapoor A., Motiyani H., Vansadia M., Shah P., ( April 2019) Maximum Power Point Tracking of Solar Panel using Microcontroller International Journal of Electrical Electronics & Computer Science Engineering
7. Gohel D., Shah Y., Shah P., (April 2019) Charging Station for Electric Vehicles Using RF Module International Research Journal of Engineering and Technology
8. Patel N. H., Raval H. N., Chaudhary R. B. and Shah P. M., (2019), Power Tracing Methods, Journal of Emerging Technologies and Innovative Research, 6(6), ISSN: 2349-5162, 549-555.
9. Shah, P. Shah, K, Singh, M. Gorkha, K.(2018), High Voltage Direct Current Transmission - A Review , International Journal of Recent Innovation in Engineering and Research, 3(2),31-38
10. Dandavate A, Joshi D., Patel V. (Oct 2018) Development, Design, Applications and Handling of Tesla Transformers Circuits: A Review, Interwoven: An Interdisciplinary Journal of Navrachana University ,1(2),39-56
11. Nirwan S., Shah V., Shah P., Velani K (November 2018) Design and Analysis of Power Evacuation System for Solar Power Plant, Journal of Emerging Technologies and Innovative Research
12. Nirwan S., Shah V., Shah P., Velani K (28-30 June 2018) Design and Analysis of Power Evacuation System for Solar Power-Plant, 2nd International Conference on " Women in Science & Technology: Creating Sustainable Career", BVM Engineering College, V.V.Nagar
13. Shah, P., Nirwan, S., Swarnakar, S., Jayarajan, A., (2017). The Development Of Automatic Fish Feeder System
14. Using Arduino Uno, International journal of modern trends in engineering & research, 4(7), 64-68.
15. Shah, P. Mehta, B. (2017) A Review of Recent Research on Optimal Scheduling of a Microgrid with Renewable Energy Sources, Charusat Journal, 1(1), 100-108.
16. Shah, P. & Desai, H., (2016). Earthing Design for 220/66 KV Hybrid (AIS & GIS) sub-station, International journal of scientific research in science, engineering and technology 2(4), 488-492.
17. Shah, P. & Desai, H., (2016) .Overhead Bus bar design for 220/66 KV GIS substation, International journal of modern trends in engineering & research, 3(6), 244-250.
18. Shah P., & Deshpande, A., ( 2012), Security constraint economic load dispatch by genetic algorithm, National Conference on Advances and Challenges in Engineering & Science organized by L.C.I.T. Bhandu.