

CAREER OBJECTIVE

To inculcate technical quest among budding engineers through lectures and research on application technology. My journey since 12+ years as an educator has been enriched by numerous interactions with students, peer groups, researchers, and industry experts. Innovation in the field of applied electronics and electrical will make my journey more satisfying.

**EDUCATION**

Dr. Sunam Saha has completed her PhD in the year 2024. Her area of specialization is Power Electronics and Brushless DC Motor Drives. She completed her M.Tech (Power Electronics) in 2016 and B.Tech (Electrical and Electronics Engineering) in 2012 from Sikkim Manipal Institute of Technology (Sikkim, Rangpo).

SYNOPSIS OF EXPERIENCE & RESEARCH

- 12 years' experience as assistant professor of electrical & electronics engineering.
- Ability to teach multiple courses of electrical & electronics engineering and technology.
- Conducted classes of students from multiple backgrounds and ethnicity (online & offline)
- Organized number of technical workshops/seminar/Webinar to enhance the engineering acumen among students.
- Attended more than 20 Faculty Development Program by **ATAL, IEEE, SWAYAM NPTEL, NITTTR** and different renowned institutes.

PUBLICATIONS

- S. Saha, M. Chattopadhyay and M. Mukherjee, "Minimization of Commutation Torque Ripple in BLDC Drive Using Switched Capacitor Based ZETA Converter," 2024 IEEE 4th International Conference on Sustainable Energy and Future Electric Transportation (SEFET), Hyderabad, India, 2024, pp. 1-5, doi: 10.1109/SEFET61574.2024.10717902.
- Sunam Saha, Debjyoti Chowdhury, Madhurima Chattopadhyay, Moumita Mukherjee, "Assessment of High gain Hybrid Converter fed BLDC motor drive for Electric Vehicle", Springer Lecture Notes in Electrical Engineering (LNEE, volume 1236), Control and Information Sciences, Pages 93-101, ISBN - 978-981-97-5866-1, October, 2024.
- Sunam Saha, Debjyoti Chowdhury, Madhurima Chattopadhyay, Moumita Mukherjee, "Analysis of a novel switched capacitor-based DC-DC converter in commutation time and torque ripple of a BLDC drive", International Journal of Power Electronics and Drive Systems, Vol. 15, No. 1, March 2024, pp 27-34, ISSN: 2088-8694, DOI: 10.11591/ijpeds.v15.il.pp27-24
- Sunam Saha, Moumita Mukherjee, Madhurima Chattopadhyay, Debjyoti Chowdhury, "A novel hybrid converter circuit used for DC-DC power Converter", [Patent Published (Application No. 202331028849)], April, 2023.
- Sunam Saha, Santanu Mondal, Madhurima Chattopadhyay, Moumita Mukherjee, "Hybrid Boost-SEPIC Converter with BLDC motor for Wearable Artificial Kidney", Neuro Quantology, September 2022, Vol:20, 9 Pg 2058-2064, DOI:10.14704/nq.2022.20.9.NQ44238.
- Sunam Saha, Santanu Mondal, Madhurima Chattopadhyay, Moumita Mukherjee, "A Scheme for Torque Ripple Minimization in BLDC Drive Using Two-Inductor Boost Converter," 2022 IEEE International Conference of Electron Devices Society Kolkata Chapter (EDKCON), Kolkata, India, 2022, pp. 1-6, doi: 10.1109/EDKCON56221.2022.10032907.
- Sunam Saha, Debjyoti Chowdhury, Madhurima Chattopadhyay, Moumita Mukherjee, "Analysis of Total Harmonic Distortion Reduction in Hybrid Boost Converter fed BLDC motor" Presented at Micro2023 conference.
- Sunam Saha and Mohhamed Nasir Ansari, "Thermal Analysis of Inverter Fed Induction Motor", Springer Lect. Notes Electrical Eng., Amik Garg et al. (Eds): Advances in Power Systems and Energy Management, Vol. 436, 2017, pp. 221-228, 2018.
- Published a news article in ABP Education, "Electrical Engineering – An appealing career option", 28 May 2020.

PROFESSIONAL EXPERIENCES

1. ADAMAS UNIVERSITY | Assistant Professor | Apr'17 – Till Date
2. SIKKIM MANIPAL INSTITUTE OF TECHNOLOGY | Assistant Professor | Jul'12 – Aug'16

CERTIFICATION & ACADEMIC MILESTONES

- Received **Best Paper Award** at conference IEEE SeFet 2024 organized by IEEE Hyderabad Section.
- Received **Best Paper Award** at conference IBMEC 2022 organized by RCOEM, Nagpur.
- **Silver medal** for 8 weeks course on Advanced Linear Continuous Control Systems (2019) organized by **NPTEL**.
- **Elite certification** for course on Control Engineering (2019) organized by **NPTEL**.
- **Young Achievers Award** by InSc on December 2021.

PERSONAL DETAILS

Date of Birth	20-April-1989	Languages	English, Hindi, Bengali, Assamese
Gender	Female	Marital Status	Married