

Dr.SharmisthaMandal

Assistant Professor

Electrical Engineering Department

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Education:

- B.E. from Jalpaiguri Govt. Engg. College.
- M.E. from Bengal Engineering College (D.U.), Shibpur, Howrah.
- Ph.D. from IEST, Shibpur, Howrah.

Field of Specialization:

- Control system.

Teaching Experience:

- Working as a Lecturer at Siliguri Institute of Technology (2003-2006).
- Working as a Lecturer and Senior Lecturer at JIS College of Engineering (2006-2009).
- Working as a Lecturer at Aliah University (2009-2010).
- Working as an Assistant Professor at Aliah University (2010-Till date).

Subjects Taught/Teaching:**UG:**

Basic Electrical Engineering, Signals & Networks, Field Theory, Electrical Measurement, Control System, Non-linear Control System, Electrical Machines.

PG:

Advanced Control Theory, Optimization Techniques, Optimal Control.

Research Interest:

- Control System
- System Identification
- Biological System Control

- Smart grid

Paper Published:

1. S. Mandal and A. Sutradhar, “Multi-objective Control of Blood Glucose with H_∞ and Pole-placement Constraints”, *International Journal of Dynamics and Control*, Springer Berlin Heidelberg, vol. 5, issue 2, pp 357–366, June 2017.
2. S. Mandal, A. Bhattacharjee and A. Sutradhar, “LMI Based Robust Blood Glucose Regulation in Type-1 Diabetes Patient with Daily Multi-meal Ingestion”, *Journal of Institution of Engineers (India)*, series-B, vol.95, no. 2, pp.121-128, 2014.
3. F.U. Ali Ahammad, S. Mandal, “Robust Load Frequency Control in Multi-area Power System: An LMI Approach”, IEEE First International Conference on Control, Measurement and Instrumentation (CMI-2016) on 8-10 Jan. 2016.
4. S. Mandal and A. Sutradhar, “Blood Glucose Regulation in IDDM Patient by H_∞ Control: An LMI Approach”, *International Conference on Systems in Medicine and Biology (ICSMB-2010)* organized by IIT-Kharagpur, India, pp.369-374. December 16-18, 2010.
5. S.Mandal, A. Sutradhar, “Robust Control of Inverted Pendulum System by Convex Optimization: An LMI Approach”, Proceeding of International Conference MS’07, India, December 3-5, 2007.