Dr. Sreya Ghosh

PhD, IIT(ISM), Dhanbad, India.
Address: Mohanpur, Barrackpore, Kolkata-700121, W.B.
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Career Objective

To strive for academic excellence and impart quality education.

Area of Expertise

Process control, Control systems, Control theory and MIMO processes

Experience

Post Held	Organization	From	To
Teaching Assistant	Adamas University	31/08/21	22/11/21
Assistant Professor	Adamas University	22/11/21	Present

Subjects Taught

Theory: Electrical Machine-I, Electric Circuits, Special Electrical Machines, Electrical Machine Design.

Practical: MATLAB and Simulink (for B.Tech and M.Tech); Control systems, E. Tech, Electrical Machines, Power system analysis and operation and Circuit theory (for B.Tech). Teaching assistance duties and invigilation duties during my PhD Tenure.

PhD Details

Thesis Title: Frequency domain reference model based PI/PID controller design for linear time invariant SISO and MIMO industrial systems

Year of Completion: 2021 (in Full Time mode)

University: Indian Institute of Technology (Indian School of Mines), Dhanbad

Publications:

A. Journal

- S. Ghosh and S. Pan, "Centralized PI controller design method for MIMO processes based on frequency response approximation," *ISA Transactions*, vol. 110, pp. 117-128, 2021. DOI: 10.1016/j.isatra.2020.10.041 [**SCI-E** Journal, Impact Factor - **5.468**].
- S. Ghosh and S. Pan, "Sensitivity model based PID controller for various high-order processes," *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, vol. 38, no. 6, pp. 1855-1873, 2019. DOI: 10.1108/COMPEL-02-2019-0078 [**SCI-E** Journal, Impact Factor - **0.755**].

B. Conference

- S. Ghosh and S. Pan, "Two Model Order Reduction Methods Based on Simple Analytical and Graphical Approach," *National Conference on Mining Equipment:*

New Technologies, Challenges & Applications (MENTCA), Dhanbad, India, October 9th-10th, 2015.

- M. N. Anwar, S. Pan and S. Ghosh, "PI controller design for pitch control of large wind turbine generator," *International Conference on Energy, Power and Environment (ICEPE)*, Shillong, India, June 12th-13th, 2015, pp. 1-6. DOI: 10.1109/EPETSG.2015.7510104 [IEEE conference]

Previous Educational Details

Qualification	University/Board	Branch	Year	Marks
B.Tech	MAKAUT (Formerly-WBUT)	Electrical Engineeing	2012	8.02 (in DGPA)
AISSCE (Higher Secondary)	CBSE	Science	2007	60.4%
AISSE (Secondary)	CBSE	NA	2005	72.2%

Certifications (Academic/industrial)

A. Academic:

- **MATLAB** and Simulink for Engineering Applications
- Measurement, Control and Simulation through **LabVIEW**
- Programming in '**C**' language

B. Industrial:

Hydel power station, transmission system construction and central load dispatch at Damodar valley corporation, Maithan (27/12/2010 – 10/01/2011).

Project work done:

The R&D Major Research Project, University Grants Commission, Govt of India, (2013–2016)

Personal Details

- *Date of Birth:* 05/02/1989.
- *Languages known:* English, Hindi, Bengali
- *Nationality:* Indian
- *Residential Address:* Mohanpur, Near Shibtala,
  Barrackpore, P.O.-Sewli Telinipara,
  District- North 24 Parganas, Kolkata-700121, West Bengal, India