



**Soodipa Chakraborty**, Ph.D. (Pursuing-NIT, Calicut)

Assistant Professor, Dept. of Mechanical Engineering,  
School of Engineering & Technology, Adamas University.

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## SUMMARY

*A seasoned and skilled professional with over 9 years of experience in teaching and administrative roles. Dedicated to fostering student engagement through tailored learning approaches that ignite a passion for engineering. Demonstrates robust leadership and managerial abilities.*

- Self-assured
- Exceptional interpersonal aptitude
- Proficient decision-making capabilities
- Adept at resolving complex issues
- Innovative mindset
- Committed to service excellence

## EXPERIENCE

- **Assistant Professor** (April 2017 – till date, 7years+)  
*Dept. of Mechanical Engineering, Adamas University*
- **Assistant Professor** (March 2016 – March 2017, 1 year)  
*Dept. of Mechanical Engineering, Adamas Institute of Technology*
- **Assistant Professor & Department In-Charge** (August 2013 – August 2014, 1 year)  
*Dept. of Mechanical Engineering, Maryland Institute of Technology & Management, Jamshedpur*

## EDUCATION

- **PhD in Engineering: Pursuing**  
Dept. of Mechanical Engineering  
National Institute of Technology, Calicut - India
- **M. Tech. (Master of Technology): 2015 (7.9 CGPA)**  
Dept. of Mechanical Engineering, Dr. B.C.Roy Engineering College, Maulana Abul Kalam Azad University of Technology, Kolkata-India
- **B. Tech. (Bachelor of Technology): 2008 (7.9 DGPA)**  
Dept. of Mechanical Engineering, Durgapur Institute of Advanced Technology and Management, West Bengal University of Technology – India

## ADMINISTRATIVE ROLES & RESPONSIBILITIES

- Managed student registrations, academic records, and course scheduling.
- Fostered student engagement through innovative teaching methodologies.
- Provided leadership in curriculum development and program enhancement initiatives.
- Collaborated with inter school faculty and staff to ensure smooth program delivery.
- Demonstrated strong decision-making skills in resolving complex issues.
- Conducted various Industry Visits and collaborations
- Founder & Mentor, Entrepreneurship Club Adamas University

- Member, Institution's Innovation Council, Adamas University
- University Disciplinary Committee member, School of Engineering & Technology(SOET), Adamas University, Kolkata
- Member, Event Club, Adamas University
- Faculty Council Member, SOET, Adamas University, Kolkata.
- SPOC, Social Outreach Program, SOET, Adamas University
- Departmental Coordinator, Career Development Cell, Department of Mechanical Engineering, SOET, Adamas University, Kolkata.
- OBE Coordinator, SOET, Adamas University, Kolkata.
- Departmental NAAC 4 and 5 coordinator, Department of Mechanical Engineering, SOET, Adamas University, Kolkata.
- Event Club Member, Adamas University, Kolkata.
- UG Coordinator, Department of Mechanical Engineering, SOET
- Admission In-charge, Department of Mechanical Engineering, SOET
- Former HOD-Incharge (January 2019-January 2020), Department of Mechanical Engineering, School of Engineering & Technology, Adamas University, Kolkata.
- Former Dean-Acting (Jun 2017-July 2017), School of Engineering & Technology, Adamas University, Kolkata.

#### **EVENT PARTICIPATED/ ORGANIZED**

- Coordinator, International Student Symposium, STAIR 2023, Adamas University, Kolkata, 2023.
- Convener, Winter Camp, Adamas University, Kolkata, 2022- Till Date
- Convener, ADINOVA, Adamas University, Kolkata, 2020- Till Date
- Convener, SIGNIFIYA 2022, SOET, Adamas University, Kolkata, 2022
- Convener, SIGNIFIYA 2021, SOET, Adamas University, Kolkata, 2021
- Convener, Talent Hunt 2021, SOET, Adamas University, Kolkata, 2022
- Convener, One month Faculty Capacity Enhancement Program 2021, SOET, Adamas University, Kolkata, 2021
- Convener, Staff Development Program 2021, SOET, Adamas University, Kolkata, 2021
- Convenor, International Lecture Series on Latest Trends in Mechanical Engineering, Adamas University, Kolkata, 2022.
- Emcee at various University Programs

#### **PROJECT/ CONSULTANCY**

- *Grant-in-Aid for SEED Fund Research project titled "3D printed Micro Waste- Composter for Smart Home Gardening", CO P.I.; Adamas University R & D SEED fund: 2021- 2022; Sanctioned Grant – Rs. 70,000/-*
- *Grant-in-Aid for SEED Fund Research project titled "Development of three-dimensional numerical models to investigate the enhancement of heat transfer due to annular jet impingement on moving surface"; CO P.I.; Adamas University R & D SEED fund: 2022-2023; Sanctioned Grant – Rs. 2,00,000/- (Ongoing).*
- *PRISM 2023 Project (Submitted) Government of India, Department of Scientific and Industrial Research, Research project titled 'Paws on wheels: Enhancing mobility for canine companions' (under process)*

#### **AWARDS & RECOGNITION:**

- Received Best Presenter Award in 2<sup>nd</sup> ICFTES Conference, NIT Calicut 2024
- Received Best Presenter Award in 7<sup>th</sup> ICO Conference, Cambodia 2023
- Received best paper award in STAIR 2023.
- Certified for completing *Python for Data Science by Datatrained Education*
- Certified for completing *Applied Machine Learning Using Python by Datatrained Education*

- Certified for completing *Applied Statistics for Data Science & Analytics* by Datatrained Education
- Certified for completing *Data Wrangling and Visualization Using Python* by Datatrained Education
- Elite Certification for completing 12 weeks NPTEL course offered by IIT Guwahati on *Viscous Fluid Flow*
- Certified for completing 12 weeks NPTEL course offered by IIT Guwahati on *Computational Fluid Dynamics for Incompressible Flows*
- Certified for completing 12 weeks NPTEL course offered by IIT Kanpur on *Conduction & Convection- Fundamentals & Applications*
- Certified for completing 12 weeks NPTEL course offered by IIT Hyderabad on *Interfacial Fluid Mechanics*
- Certified for completing 1-week AICTE Sponsored QIP program on *Idea Conceptualization through Additive/Subtractive Manufacturing Methods*, 2019 organised by IIT Roorkee
- Certified for completing 1 week Atal FDP on *3D Printing & Design*, 2020

#### **SUBJECT EXPERT:**

Engineering Thermodynamics; Applied Thermodynamics; Manufacturing Technology, Heat Transfer Engineering; Computation Fluid Dynamics; Venture Ideation

#### **FIELDS OF RESEARCH INTEREST**

Jet Flows, Computational Fluid Dynamics, Heat & Mass transfer, Smart Materials, Machine Learning and AI

#### **RESEARCH COLLABORATION**

- NIT, Calicut
- Jadavpur University, Kolkata
- Kalyani Govt. Engineering College, Kalyani
- Chungnam National University, South Korea
- Singapore University of Technology and Design (SUTD), Singapore

#### **RESEARCH GUIDANCE**

- UG: 8 (completed), 3 (ongoing)

#### **PUBLICATION**

- [1] Enhancing Heat Transfer Efficiency: A Numerical Investigation of Shell and Tube Heat Exchanger with Variable Angular Baffles for Minimizing Overall Fuel Consumption, S Bhattacharyay, K Mitra, P Dutta, **S Chakraborty**, H Chattopadhyay, *Journal of Mines, Metals & Fuels* 71 (11), 2023
- [2] Thermal performance analysis of a solar air heater with different baffle configuration, P Nandi, P Amin, S Chakraborty, **S Chakraborty**, P Dutta, H. Chattopadhyay, *AIP Conference Proceedings* 2786 (1), 2023
- [3] CFD Study on Structural Parameters of Airwing based on NACA 2412 Profile using Different Composite Material, **S. Chakraborty**, S. Karmakar, S. Ghosh, S. Bhattacharjee, S. Chakraborty, A. Mukherjee 2021
- [4] Development and characterization of novel piezoceramic material-based stack actuator **S. Chakraborty**, N. Patra, A. Mishra, S. Chatterjee, 2020

#### **AFFILIATIONS**

- ISIEINDIA Professional Membership
- SAE Professional Membership
- International Association of Engineers (IAENG) Professional Membership

**LANGUAGES**

- English, Hindi, Bengali

**HOBBIES**

- *Dance*
- *Trekking*

**REFERENCES**

Dr. Ajay Kr. Chattopadhyay, Ex-Professor  
Dept. of Mechanical Engineering  
IIT Kharagpur, India  
Email: akcmech@gmail.com;  
Ph. No. :9434017853

Dr. T.J. Sarvothama Jothi, Associate Professor  
Dept. of Mechanical Engineering  
NIT Calicut, India  
Email: tjsjothi@nitc.ac.in;  
Ph. No. :8893814713

**DECLARATION**

I, do hereby declare that the information mentioned above is true to the best of my knowledge.

Date: 15.07.24  
Place: Kolkata

*Soodipa Chakraborty*  
(Soodipa Chakraborty)