



Dr. Tapas Chakraborty
Assistant Professor' Mechanical
Engineering Department

tapas260465@gmail.com

+91 8240907209

Sodepur, P.o-Sukhchar, Near
St. Xaviers school, Kol-700115

Date of birth: 06.09.1964

A mechanical engineer, with profound knowledge in teaching & industry, having strong interest in research & administrative work.

WORK EXPERIENCE

ACADEMIC EXPOSURE

Asst. Professor, Mechanical Engineering Department, Saroj Mohan Institute of Technology, Hooghly under Techno India Group, from 2006, Head of the Department from 2015 to November'2025.

Presently working in Swami Vivekananda University from 1st December'2025 as Assistant Professor in the Mechanical Engineering Department.

INDUSTRIAL EXPOSURE

Industrial experience of 17 years in various reputed organisations like Black diamond beverages Ltd (Bottler of CocaCola India), IFB Agro Industries Ltd, Kesoram Rayon & Industries Ltd in Production and Maintenance. (1989 - 2006)

E- LEARNING CERTIFICATES

Human Resource Management: HR for People Managers
Specialisation (2020)
Coursera (University of Minnesota)

Outcome based pedagogic principles of effective teaching (2018)
NPTEL

Engineering Metrology (2018)
*NPTEL*Topper (Top 5%)*

EDUCATION

PhD on Electro-discharge machining

Indian Institute of Technology (ISM), Dhanbad
2025

M. Tech, Manufacturing technology

National Institute of Technical Teachers' Training & Research, Kolkata
2007 - 2009

AMIE (Mechanical Engineering)

The Institution of Engineers
2002

Diploma in Mechanical Engineering

BPC Institute of Technology, Nadia
1984 - 1987

B. Sc

Calcutta University
1983 - 1985

SKILLS

Teaching

Industry Oriented Training

Administrative Capability

Leadership

Time management

Resource Utilisation

ACHIEVEMENTS

Paper setter at Govt. College of Ceramic Technology, MCKV Institute of Engineering. Paper setter and Reviewer at Maulana Abul Kalam Azad University of Technology for B. tech

External Examiner at RCC institute of Information technology & Govt. College of Ceramic Technology

Guest Lecturer in diferent reputed engineering colleges like JIS College of Engineeering, Govt. College of Ceramic Technology, RCC institute of Information technology

HONOR AWARDS

Topper in the course of Engineering Metrology (2018)
NPTEL

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

Bengali
Native or Bilingual Proficiency

POSITIVES

Communication skills

Team Player

Openness

Strong Administrative Skills

Positivity

Integrity

Commitment

Enthusiastic

Cultural Experience

INTERESTS

Engineering Metrology

Engineering Drawing

Manufacturing Science

Advanced Manufacturing

PUBLICATION

1. Tapas Chakraborty, Amitava Mandal; (2022), Bio-Dielectric as an Alternative Degradable and Sustainable Fluid in EDM: A Review, Springer Proceedings in Energy book series, ICSTEESD International conference, doi: 10.1007/978-981-16-6875-3
2. Tapas Chakraborty, Deepti Ranjan Sahu, Amitava Mandal, and Bappa Acherjee; (2022), Feasibility of Jatropha and Rice bran vegetable oils as sustainable EDM dielectrics, Materials and Manufacturing Processes, doi.org/10.1080/10426914.2022.2089891
3. Tapas Chakraborty, Ankush Chakraborty; (2023), Optimisation of injection molding process parameters for improvement in tensile strength using the Taguchi experimental design, Int J COMADEM, 26(1) 13-22
4. Tapas Chakraborty, Bappa Acherjee, Amitava Mandal, (2025), Emerging Frontiers in Electro-Discharge Machining: A Comprehensive Review of Research Trends, Challenges, and Innovative Solutions. Forschung im Ingenieurwesen (FIIN), doi.org/10.1007/s10010-025-00832-z
5. Tapas Chakraborty, Bappa Acherjee, Amitava Mandal, (2025), Comparative analysis of the rotary tool performances for Bio-dielectrics over conventional dielectric at optimum condition in EDM, J of Mechanical Engineering Advancements, 2(2): 9-21. doi.org/10.65525/jmea.v2i2.23. ISSN 3048-5673.
6. Tapas Chakraborty (2026), A Review on Sustainability Assessment of Die-Sinking EDM Using Bio-Dielectrics, 4th International Conference on Engineering Design and Computing (ICEDC 2026), 27.02.26-28.02.26.
7. Ankush Chakraborty, Tapas Chakraborty (2026), Machine Learning, Book Name-Artificial Intelligence and Machine Learning for Mechanical Engineering, ISBN: 978-81-964878-3-6

: Two SCI and one Scopus publication

