

# DR RAJU DAS

## Profile



**Designation:** Assistant Professor in Mechanical Engineering

**Current Affiliation:** Cooch Behar Government Engineering College

**Current Tenure:** 24/09/2024 to till date

**Experience (As Educator):** 7 years and counting

**Industrial Exposure:** 2 years

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**📍** Cooch Behar, West Bengal, India

## Summary

A native of Alipurduar (A Dooars area), West Bengal, I grew up in the midst of jungle, tree gardens, hills and rivers. Being fortunate enough to experience lush greenery and also a rugged industrial environment. In a similar context, I have had a composite exposure to academia as well as industry. I wish to share my life experiences and professional journey with my students to adequately prepare them for their future careers.

## EDUCATION

Academic Degree	Name of the Institution	Course Duration	Remarks
B.Tech in Mechanical Engineering	Jalpaiguri Government Engineering College (Autonomous Institution)	2007-2011	First Class
M.Tech in Mechanical Engineering	Jalpaiguri Government Engineering College (Autonomous Institution)	2012-2014	Institute rank holder
PhD in Mechanical Engineering	National Institute of Technology Durgapur	2015-2021	Worked on Additive Manufacturing

## Subjects Taught

1. Manufacturing Practices: ES ME 192
2. Applied Thermodynamics: PC ME 401
3. Thermal Power Engineering: ES EE 404
4. Manufacturing Technology: PC ME 601
5. Advanced Manufacturing Technology: PC ME 701
6. Mechanical Engineering Laboratory III ( Manufacturing): PC ME 791
7. Power Plant Engineering: PE ME 801

## Research Focus areas

**Additive manufacturing, Smart Manufacturing, Modelling and Optimization of Mechanical Engineering Processes (Manufacturing & Thermal Systems)**

## Publications

### Journal papers

1. Das et al. Machine learning assisted forward and reverse mapping of micro-additive manufacturing process, 2026. *Proceedings of the Institution of Mechanical Engineers Part E Journal of Process Mechanical Engineering*. Doi: 10.1177/09544089261421365
2. Das et al. Improving E-jet process capabilities with black box machine learning, 2025. *The International Journal of Advanced Manufacturing Technology*. Doi: 10.1007/s00170-025-17045-x
3. Das et al. An experimental investigation for parametric appraisal of electrohydrodynamic-driven microfabrication approach using teaching and learning-based optimization, 2020. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*. Doi: 10.1007/s40430-020-02349-8.
4. Das et al. A Multi Criteria Decision Making Approach for Process Improvement of E-JET: An Experimental Investigation, 2020. *Journal of Advanced Manufacturing Systems*. Doi: 10.1142/S0219686720500237.
5. Das et al. Modeling of EHD inkjet printing performance using soft computing-based approaches, 2020. *Soft Computing*. Doi: 10.1007/s00500-019-04202-0.
6. Das et al. Experimentation modelling and optimization of electrohydrodynamic inkjet microfabrication approach: a Taguchi regression analysis, 2019. *Sadhana*. Doi: 10.1007/s12046-019-1146-5.
7. Das et al. Application of PCA-based hybrid methodologies for parameter optimization of E-jet based micro-fabrication process: a comparative study, 2018. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*. Doi: 10.1007/s40430-018-1373-4.
8. Das et al. Parameter Design of High-Resolution E-Jet Micro-Fabrication Process by Taguchi Utility Approach, 2018. *International Journal of Manufacturing, Materials, and Mechanical Engineering*. Doi: 10.4018/IJMMME.2018070104.
9. Das et al. Application of MCDM Methodology for Performance Evaluation of Inkjet Based Micro-Fabrication Process, 2018. *IOP Conference Series Materials Science and Engineering*. Doi: 10.1088/1757-899X/377/1/012034.
10. Das et al. Optimization of E-jet Based Micro Manufacturing Process Using Grey Relation Analysis, 2018. *Materials Today Proceedings*. Doi: 10.1016/j.matpr.2017.11.072.

11. Das et al. Parametric Optimization of E-Jet Based Micro Manufacturing System Through Hybrid Taguchi Methodology, 2017. *Materials Today Proceedings*. Doi: 10.1016/j.matpr.2017.11.361.
12. Das et al. Design, Development and Experimental Investigation of E-jet Based Additive Manufacturing Process, 2017. *Materials Today Proceedings*. Doi: 10.1016/j.matpr.2017.11.405.
13. Das et al. Study of Thermo-Fluidic Behavior of Micro-Droplet in Inkjet-Based Micro Manufacturing Processes, 2016. *AIP Conference Proceedings*. Doi: 10.1063/1.4984698.
14. Das et al. Optimization of Different Control Parameters of a Cold Storage using Taguchi Methodology, 2015. *AMSE Review (Association for the Advancement of Modelling and Simulation Techniques in Enterprises)*, 36(1):1-9.

#### **Book chapters**

1. Das et al. Selection of Suitable Control Parameters for Proper High-Resolution Deposition Performance of E-Jet Microfabrication Process: A Comparative Analysis, 2020. *Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering*. Publisher: IGI Global. Doi: <https://doi.org/10.4018/978-1-7998-4939-1.ch009>.
2. Das et al. Optimization of E-Jet Based Micro-manufacturing Process Using Desirability Function Analysis, 2018. *Industry Interactive Innovations in Science, Engineering and Technology*. Publisher: Springer (LNNS). Doi: 10.1007/978-981-10-3953-9\_46.

#### **Previous Association**

1. Rajganj Government Polytechnic
2. Kolkata Municipal Corporation (KMC)
3. SEW Infrastructure Limited

#### **Professional Links**

1. Researchgate: <https://www.researchgate.net/profile/Raju-Das-6>
2. Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57195511777>
3. Google Scholar: <https://scholar.google.com/citations?user=85Nsu7YAAAAJ&hl=en>

**Languages** Bengali & English (Proficient), Hindi (Competent).

**Special interest** Avid follower of Football and Cricket, appreciates soulful music.