

JOYDIP ROY

CONTACT

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ADDRESS: Asthana Road,
Basirhat, North 24 Parganas,
West Bengal. PIN- 743411

FAMILY DETAILS

Father: Utpal Kumar Roy

Mother: Babli Roy

PERSONAL DETAILS

DATE OF BIRTH: - 09.04.1991

NATIONALITY: - INDIAN.

BLOOD GROUP: - B+

MARITAL STATUS: - UNMARRIED.

CASTE: - GENERAL.

GENDER: - MALE.

LANGUAGES KNOWN: - BENGALI,
ENGLISH, HINDI

HOBBIES

Playing Guitar

Trekking

Cartography

WORK EXPERIENCE

Assistant Professor: ME Department, Swami Vivekananda University, Kolkata. 2nd Sept 2024 – Present.

Visiting Faculty: ME Department, Narula Institute of Technology. July 2022 – Aug 2024.

Part Time Faculty: ME Department, Guru Nanak Institute of Technology. Feb 2022 – June 2022.

M. TECH. RESEARCH AREA

Evaluation of Grindability of Hardened AISI 4340 Steel Under MQL Fluid Delivery Technique, under the guidance of - Professor Dr. Santanu Das, Head, Mechanical Engineering Dept., Kalyani Govt. Engineering College; Dr. Bijoy Mondal, Visiting Faculty, Mechanical Engineering Dept., Kalyani Govt. Engineering College; Sirsendu Mahata, Assistant Professor, Mechanical Engineering Dept., Kalyani Govt. Engineering College.

ACADEMIC QUALIFICATION

M. Tech in Mechanical Engineering, Kalyani Government Engineering College, W.B.U.T., 2013- 2015. CGPA: 7.6.

B. Tech in Mechanical Engineering, JIS College of Engineering, W.B.U.T., 2009-2013. CGPA: 7.75.

Higher Secondary, Basirhat Town High School, W.B.C.H.S. 2009 Percentage: 74.8%

Secondary, Basirhat Town High School, W.B.B.S.E. 2007 Percentage: 89.9%

Achievements

- As a faculty Co-PI, received MSME HACKATHON 4.0 – sanctioned project in collaboration with CSIR-CMERI Durgapur.

Trainings

- Successfully completing the NPTEL Course “Accreditation and Outcome Based Learning” with a consolidated score of 62%.
- Successfully completing the NPTEL Course “Joining Technologies for Metals” with a consolidated score of 61%.
- Project Title: Industrial Training Report on Casting Processes in Manufacturing Industry at SNB Enterprise, Kolkata. 1st July- 31st July 2011.
- Project Title: Two-Week Industrial Training on Thermal Power Plant Systems at Bandel Thermal Power Station, Bandel. Jan 2012.

GOOGLE SCHOLAR PROFILE:

https://scholar.google.com/citations?view_op=list_works&hl=en&user=cxRNSSMAAAAJ

ORCID: 0009 0000 4961 2460

REFERENCE:

1. Dr. Santanu Das Professor and Head, Department of Mechanical Engineering, Kalyani Government Engineering College. santu.das@kgec.edu.in

2. Dr. Bikash Panja Professor, Department of ME and Dean, Faculty Council of Engineering, Swami Vivekananda University. bikashp@svu.ac.in

SKILLS

- Auto CAD Designing
- 3-D Printing
- Pro-E

COMPLETED PROJECTS

- Evaluation of Grindability of Hardened AISI 4340 Steel Under MQL Fluid Delivery Technique
- Designing of 3D Printed Prosthetic Arm

PATENTS

- Nanomaterial analysis and characterization system. **Application No. 461629001**

PUBLICATIONS

SCOPUS:

1. Effect of small quantity lubrication on grindability of hardened AISI 4340 steel. DOI: <https://doi.org/10.1504/IJAT.2018.094155>

International Journals:

1. Study of CNC Turner Process Parameters of 45C8 Alloy Based on Surface Roughness. DOI: <https://doi.org/10.22271/ed.book.3064>

International Conferences:

2. Evaluating Grinding Performance: A Study of Forces, Surface Integrity and Energy Consumption Under Dry, Grease and SQL Conditions of AISI D2 steel. DOI: <https://doi.org/10.62823/RGRF/9788197496295>
3. Optimizing Machining Parameters for Aluminium-Silicon Alloy Workpiece: Leveraging Taguchi Method, ANOVA, Interaction Plots, and 3D Contour Analysis. ISSN/ISBN: 9788197496295
4. Low- Cost 3D Printed Prosthetic Arm Powered by Bio-sensors for Medical Rehabilitation. 4th International Conference on Advance in Science, Engineering & Technology (ICASET-2025), 15th & 16th Nov 2025. [Review under Process]

Book Chapter:

1. Advanced Paradigms in Transdisciplinary Research. September 2025. Page number 151-155. <https://doi.org/10.62823/MGM/2025/9789349468955>