



ANJAN DUTTA | Joint M.Tech-Ph.D.

Department of Physics | Indian Institute of Technology Kharagpur, India
| Email id: anjandutta2000@kgpian.iitkgp.ac.in |



Research domain: Nanomaterials for Battery Storage Systems, Experimental condensed matter physics

EDUCATION

Year	Degree/Exam	Institute	Specialization	CGPA/Marks
2025	Ph.D	IIT Kharagpur	Physics	Ongoing
2025	M.TECH	IIT Kharagpur	FMD (Physics)	9.52 / 10
2022	M.Sc	IEST Shibpur	Physics	8.75 / 10
2020	B.SC HONOURS	UNIVERSITY OF KALYANI	Physics	83.13%
2017	HIGHER SECONDARY	WEST BENGAL COUNCIL OF HIGHER SECONDARY EDUCATION	PCMB	81.4%
2015	SECONDARY	WEST BENGAL BOARD OF SECONDARY EDUCATION		90.85%

PREVIOUS PROJECTS

- M.Sc Project** | Indian Institute of Engineering Science and Technology, Shibpur
Supervisor: **Dr. Samar Jana**, Associate Professor of the Department of Physics, IEST Shibpur
Project Title: “Analysis of the absorption Spectra and the energy levels of 1mole %Dy₂O₃ doped 5% BaO + 24% ZnO + 55% P₂O₅ + 15% TeO₂ glass and 1 mole % Sm₂O₃ doped 5% BaO + 24% ZnO + 55% P₂O₅ + 15% TeO₂ glass for three different slit widths”
- M.Tech Project** | Indian Institute of Technology, Kharagpur
Supervisor: **Prof. Amreesh Chandra**, Professor of the Department of Physics, IIT Kharagpur.
Project Title: “SnO₂-based hierarchical nanostructures for energy storage application” under Prof Amreesh Chandra at IIT Kharagpur
- M.Tech Summer Internship** | MEML Laboratory | IIT, Kharagpur | June, 2024
Supervisor: **Prof. Amreesh Chandra**, Professor of the Department of Physics, IIT Kharagpur.
Project Title: “Synthesis and Characterization of Manganese Doped Sodium Ferrous Phosphate (NaFePO₄) For Energy Storage Devices”

WORKSHOPS

- Five-day workshop on “**Training workshop on Low Carbon Footprint Processes and Determination**”
Department of Physics | IIT Kharagpur | May 20 to 24, 2024
- “**ONE-DAY SPARC WORKSHOP ON PEROVSKITE**”
SPARK | 29th April 2024 | Department of Physics | IIT Kharagpur | 29th April 2024
- “**Suitable Horizons: Exploring Carbon Capture | Valorization**”
IGSTC | 19-20th February 2025 | Department of Civil engineering | IIT Kharagpur
- “**Empowering Circular Economy Through Organic Waste Recovery**”
SPARK | 20-21st February, 2025 | Department of Civil engineering | IIT Kharagpur

SKILLS

Laboratory Skills: Characterization techniques: Electrochemical characterization (CV, CD, EIS, Cycling), XRD, FTIR, BET, UV-Vis, Muffle Furnace, Inert Furnace, Ball-milling, Bath sonicator, Probe sonicator, Electro-spinner, Glove box for Battery making, Biologic, 3D Printer

Material Synthesis Experience: Hydrothermal, Sol-Gel, Solid state method, Co-precipitation

Software and programming Language: Python, LaTeX, MS Office, Circuit Maker Software, Origin plotting software, VESTA, Blender 3D Software

Teaching Experience: Have experience of B.Tech 1st year Physics Laboratory Class as teaching assistant for 1 year at IIT, Kharagpur

ACHIVEMENTS & AWARDS

- District student- Youth Science Fair, Certificate of Merit
- Qualified for the GATE Examination in 2023
- Diploma In information Technology, Office Automation, Computer Accountancy and Taxation.
- Secured 1st Position in B.Sc Physics at college
- Qualified JAM Examination in 2020
- Bootcamp Completion Certificate with Debtown on Python and artificial Intelligence