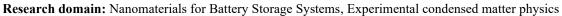


# ANJAN DUTTA | Joint M.Tech-Ph.D.

Department of Physics | Indian Institute of Technology Kharagpur, India







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

Project Title: "Analysis of the absorption Spectra and the energy levels of 1mole %Dy<sub>2</sub>O<sub>3</sub> doped 5% BaO + 24% ZnO + 55% P<sub>2</sub>O<sub>5</sub> + 15% TeO<sub>2</sub> glass and 1 mole % Sm<sub>2</sub>O<sub>3</sub> doped 5% BaO + 24% ZnO + 55% P<sub>2</sub>O<sub>5</sub> + 15% TeO<sub>2</sub> 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: "SnO<sub>2</sub>-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 (NaFePO<sub>4</sub>) 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
- "Suitable Horizons: Exploring Carbon Capture | Valorization"

IGSTC | 19-20<sup>th</sup> February 2025 | Department of Civil engineering | IIT Kharagpur

- "ONE-DAY SPARC WORKSHOP ON PEROVSKITE" SPARK | 29 th April 2024 | Department of Physics | IIT Kharagpur | 29
- th April 2024
  - "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

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