

SUMAN SHIT

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EDUCATION

M.Sc. Physics, Indian Institute of Technology (IIT) Bhubaneswar

May 2024

CGPA: 8.16/10

B.Sc. Physics Honours, Vidyasagar University

June 2022

Marks: 8.86/10

RESEARCH INTEREST

I am interested in experimental condensed matter physics, focusing on 2D materials, especially in Mxene and MBene.

MASTER THESIS

Synthesis of MoAlB Phase Using Chemical Vapour Deposition

Odisha, India

Master's Dissertation at Indian Institute of Technology (IIT), Bhubaneswar.

Supervisor: **Dr. Avijit Kumar.**

(July 23 -May 24)

Two-dimensional metal borides (MBene) have got much attention due to their fascinating properties like high electrical conductivity, hydrophilicity, biocompatibility, high specific capacitance. They have the potential to be used in various applications like energy storage, catalysis, anode of Li-ion battery, biosensing, gas sensing. It can be synthesized by selective chemical etching of MAB phase.

RELEVANT COURSE WORKS

Condensed Matter Physics, Semiconductor Physics, Accelerator based particle physics, Biophysics and Atomistic Simulations in Physics

WORKSHOP, TALKS AND SEMINAR

- Presented 'Spintronics and it's future scope' at IIT BBS organized by Dr. Hemant Kumar.
- Raman scattering at IIT BBS organized by Dr. Nirmalendu Acharya.
- Given a talk on Optics in Medical Science at IIT BBS organized by Dr. Abhijit Kumar.

FELLOWSHIP AWARDED, ACHIEVEMENT

- Junior Research Fellow with AIR 279 2025.
- Inspire Fellowship by DST 2025.
- Qualified GATE Physics Examination 2025
- Qualified IIT JAM Examination. 2022

TECHNICAL SKILL

- **Programming Languages** FORTRAN, Python
- **Software:** MATLAB, LaTeX, Origin