

**SOURAV CHOUDHURY**Course : **M.Tech.**, Mechanical Engineering, 2024

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CGPA : 7.97

**ACADEMIC DETAILS**

COURSE	SPECIALIZATION	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
UG	Mechanical	ARYABHATTA INSTITUTE OF ENGINEERING AND MANAGEMENT	MAKAUT	8.75 CGPA	2018
CLASS XII	SCIENCE	FULBARI HIGH SCHOOL	West Bengal Council of Higher Secondary Education (WBCHSE)	364 MARKS	2014
CLASS X		FULBARI HIGH SCHOOL	West Bengal Board of Secondary Education (WBBSE)	420 MARKS	2012

Subjects / Electives	FEM In Thermal , CFD, Advance Heat Transfer
Technical Proficiency	Inventor , AutoCAD Mechanical , ANSYS ICEM CFD, ANSYS Fluent , MATLAB , Meshmixer , Python

SUMMER INTERNSHIP / WORK EXPERIENCE

Summer internship (MoM)-S9, Tata Steel Limited	May 2023 - Nov 2023
I was involved in a research called "Graphene Synthesis from Waste Oil." I worked with tube furnaces at 800-900 degrees Celsius and received exposure to TEM, SEM, XRD, RAMAN spectroscopy , UV, and FT-IR scans .	
Junior research fellow, Central mechanical engineering and research institute	Aug 2019 - Jan 2021
Design and development of small utility compact tractor. Software I used Autodesk Inventor and Autocad software for 3D modeling and 2D drafting .	
Graduate apprenticeship training , DVC (Damodar Valley Corporation)	Oct 2018 - Aug 2019
Coal bill processed	

PROJECTS

Tumor Treating Field mediated Thermosensitive Liposome drug delivery in human brain tumor : A pilot numerical investigation - Thermal Engineering	Jan 2024 - Nov 2024
Ansys ICEM CFD was used to mesh the 3D head model that was extracted from the MRI, and Ansys Fluent 2022 was used for simulation . Research area: Bio-fluid Mechanics and heat transfer , CFD	
Synthesis of graphene from waste oil - Material science	Jun 2023 - Nov 2023
I used the one-step pyrolysis method to convert waste hydraulic oil into graphene and graphene oxide form. I had filed patent on that.	
Design and development of small utility compact tractor - R&D (Design)	Aug 2019 - Jan 2021
I modeled a 3 dimension (3D) of a small tractor. I was performing 2D drafting of the tractor .	

POSITION OF RESPONSIBILITY

DPGC STUDENT REPRESENTATIVE - IIT ISM DHANBAD	Oct 2022 - Present
Academic related work	

EXTRA CURRICULAR ACTIVITIES

Volleyball play

COMPETITIONS

MInd Over Matter	Nov, 2023
Synthesis of graphene fromwaste oil	

CONFERENCES AND WORKSHOPS

International Conference on Biological Innovation , Technology, Engineering and Sciences (BITES-2024)
Organized by: NIT Roukela Date: Dec 2024
Tumor Treating Field mediated Thermosensitive Liposome drug delivery in Human Brain Tumor: A Pilot Numerical Investigate .
ICTFSD 2024

Organized by: **BIT MESRA** | Date: **Apr 2024**

A alternative brain cancer treatment using tumor treating fields: A computational approach.

TEST SCORES

TEST NAME	DATE OF EXAM	SCORE
Gate	Feb 5, 2022	Score :437/1000

PATENTS

A METHOD FOR PRODUCING GRAPHENE OR GRAPHENE DERIVATIVE FROM WASTE OIL

Filing date: Mar 8, 2024 | Issue date: Yet to be issued

Application number: **202431016960** | Patent Office: **India**

LANGUAGES KNOWN

Hindi, Bengali, English