

Mr. Sourav Chandra

M.Sc. Completed (June 2025), B.Sc. (2023)

Department of Chemical Sciences

Indian Institute of Science Education and Research (IISER), Kolkata



➤ Nationality- Indian ➤ Gender- Male ➤ Age: 23 years ➤ Language known- English, Hindi, Bengali

☎ +919883382176

✉ sc23mp009@iiserkol.ac.in, & sourav.chandra341@gmail.com

OBJECTIVE

Being an enthusiastic and motivated postgraduate chemistry student at IISER Kolkata, I am always keen to push the boundaries of my learning and enhance my knowledge, skills, and productivity. I am seeking a PhD position in the field of **organic synthesis and catalysis**. I believe my educational background, as well as my synthetic and analytical experiences, will make a worthwhile contribution to the team through exposure to new ideas and the mutual sharing of knowledge, which in turn will stimulate my growth and improve my research skills.

EDUCATIONAL PROFILE

➤ **M.Sc. (Chemical Sciences):** Indian Institute of Science Education and Research, Kolkata, West Bengal, India

Master of Science in Chemical Sciences

Year of Passing- 2025, CGPA: 9.00 [Up to 4th Semesters of MS Degree]

➤ **B.Sc. (Honours):** Government General Degree College, Singur. [under the University of Burdwan]

B.Sc. in chemistry (honours), CGPA: 9.17 [Up to 6th Semesters, All courses]

Year of Passing- 2023 | Grade – “O” (Letter Grade in CGPA)

➤ **School Name: Dwarhatta Rajeswari Institution (H.S),** Dwarhatta, Hooghly, West Bengal, India

• Higher Secondary (Class XII) | West Bengal Council of Higher Secondary Education

Year of Passing- 2020 | Percentage: **92%**

• Secondary (Class X) | West Bengal Board of Secondary Education

Year of Passing- 2018 | Percentage: **90.57 %** | Grade – “AA”

ACADEMIC ACHIEVEMENTS AND SCHOLARSHIPS

- Received OBC Scholarship V to class X for academic excellence.
- Received Swami Vivekananda Merit-cum-Means Scholarship for academic excellence [X, XII, B.Sc. & M.Sc.]
- Qualified NEET-UG in 2019, 2020
- Qualified ICAR-UG in 2020
- Qualified IIT-JAM in 2023
- Qualified CUET in 2023
- Qualified for admission to NIT Silchar, NIT Meghalaya for M.Sc. in Chemistry
- Qualified for admission to IISER Kolkata for M.Sc. in Chemistry
- Qualified GATE -2024

TEACHING EXPERIENCE

Worked as a Teaching Assistant (TA) of **Organic Chemistry II** (Course Code: CH2204, Course type: Theory) in Spring Semester 2025 at the Indian Institute of Science Education and Research, Kolkata.

Instructors: Prof. Biplab Maji and Prof. Suman De Sarkar (Department of Chemical Sciences)

RESEARCH INTERESTS

- Organic Synthesis and Catalysis
- Electro-organic synthesis and application
- Molecular catalysis (Photoredox Catalysis, Organocatalysis, Transition-metal catalysis)
- Chemical Biology, Drug design

SKILLS

- **Instruments Handling:** - Analytical balance, UV/Visible and IR spectrophotometer, Rotavapor, Schlenk Line, handling the set-up for electrocatalytic and photocatalytic reactions.
- **Technical Skills:** - Column chromatography, Thin-layer chromatography, Gravimetric estimation, Different types of Titration Processes, Inert condition reactions.
- **Software Programmes:** - Good working knowledge in most of the chemical databases (SciFinder, Web of Science, etc.) and proficient in Microsoft Office (Word, Excel, PowerPoint), Chem Draw, Origin Pro.
- **Others:** - Skilled at executing strategic planning and organisation, I proactively tackle challenges with innovative problem-solving.

RESEARCH EXPERIENCE

MS Thesis Project Student | RedOx Lab | IISER Kolkata, India

(Mar 2024 – June 2025)

Topic: ‘Metal-free Electrosynthesis of 1,3 Dihydro Oxazines through TEMPO Mediated Multi-component Coupling’

Supervisor: Prof. Suman De Sarkar

Short Summary: - In this research project, we developed a metal-free electrochemical method for synthesizing 1,3-dihydro-oxazine derivatives via three-component coupling. Given the notable biological reactivities of 1,3-dihydro-oxazines containing functionalized substituents, this synthesis emerged as the primary focus of my project.

PRESENTATION

- “Metal-free Electrosynthesis of 1,3 Dihydro Oxazines through TEMPO Mediated Multi-component Coupling” – Poster presentation on Master’s Thesis work at IISER Kolkata, India. December 13th, 2024, and thesis presentation on 29th April, 2025.
- “Facile Splitting of Hydrogen and Ammonia by Nucleophilic Activation at a Single Carbon Centre” – Group presentation as a part of Advanced Main Group and Organometallic Chemistry Coursework at IISER Kolkata, India. April 15th, 2024.

ATTENDED WORKSHOPS AND SEMINARS

- National Symposium on Chemical Sciences 2022 hosted by the Department of Chemistry, St. Xavier’s College (Autonomous), Kolkata.
- Inter IISER-NISER Chemistry Meet-2024(IINCM-2024) on Sustainability & Interdisciplinary in Chemical Sciences organised by IISER Kolkata, at IISER-K.
- ETOMC-2024 (Emerging Trends in Organometallics and Catalysis), an international symposium organised by IISER Kolkata, at IISER-K.

REFERENCES

Professor Suman De Sarkar

Professor, Department of Chemical Sciences
Indian Institute of Science Education and Research Kolkata
Mohanpur-741246, West Bengal, India
Homepage: <https://www.redoxlab.in>

✉ sds@iiserkol.ac.in

☎ +91-33-61360000

Relation: MS thesis Supervisor

Professor Rahul Banerjee

Professor, Department of Chemical Sciences
Indian Institute of Science Education and Research Kolkata
Mohanpur-741246, West Bengal, India
Homepage: <https://www.rbanerjeelab.com/>

✉ r.banerjee@iiserkol.ac.in

Relation: Course Instructor

Professor Subhajit Bandyopadhyay

Professor, Department of Chemical Sciences
Indian Institute of Science Education and Research Kolkata
Mohanpur-741246, West Bengal, India
Homepage: <https://www.iiserkol.ac.in/~light/>

✉ sb1@iiserkol.ac.in

Relation: Course Instructor

Professor Amit Basak

FNA, FASc, FNASc, FRSC, FAScT
INSA Senior Scientist
Department of Chemical Sciences
Indian Institute of Science Education and Research Kolkata

✉ absk@chem.iitkgp.ac.in or absk@iiserkol.ac.in

Relation: Course Instructor

EXTRACURRICULAR ACTIVITIES

- Completed 5th year examination in fine arts.
 - 1-year degree in computer applications.
-

DECLARATION

I do hereby declare that the information mentioned above is correct to the best of my knowledge. If given a chance, I will prove my efficiency, loyalty, and willingness to work.

Place: IISER Kolkata, India

Date: 16th July, 2025

Sourav Chandra
(Sourav Chandra)
