



HARSHIT JAIN | 18CH10061

CHEMICAL ENGG. (B.Tech 4Y)



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2022	B.TECH	IIT Kharagpur	8.39 / 10
2017	AISSCE	CBSE	76.4%
2015	AISSE	CBSE	7.8 / 10

AWARDS AND ACHIEVEMENTS

- Secured a **Department Change**, for being in the **top 1%** among the batch of **1400+** students in the freshman year.
- Secured an **All India Ranking 3919** among 2,30,000 candidates appearing for **Joint Entrance Exam - Advanced'18**.
- Secured a rank among the **top 0.01%** candidates among 1.2 million candidates appearing for **JEE Mains'18**.

INTERNSHIPS AND PROJECTS

Prof. Ajay Kumar Mishra | Vinod Gupta School of Management, IIT Kharagpur Sep'20 - Nov'20

Zero Interest Rate Regime - Challenge for Global Central Banks and Covid-19 Crisis

- Analyzed the impact of ZIRP & Quantitative Easing Policy of Bank of Japan in late '80s & Troubled Asset Relief Policy by FED in Global Economic Crisis'08.
- Concluded that due to Covid, the US has high chances to replicate what happened in Japan and may fall into Monetary Blackhole for a long haul.

Reserve Bank of India - Measures Taken to curb Covid-19 Crisis

- Analyzed the role of Reserve Bank of India and co-ordination of Reserve Bank of India with other financial institutions in normal economic conditions.
- Compared the measures taken by the Reserve Bank of India during the Global Economic Crisis 2008 and the novel coronavirus(Covid-19) pandemic.

Multi-Functional Thin Films | Instability and Soft Patterning Laboratory Nov'19 - Present

Guide: Dr. Rabibrata Mukherjee (Professor, Department of Chemical Engineering, IIT Kharagpur)

- Replicated **Biometric patterns**(Rose and Lotus petals) and **Grating patterns**(CD and DVD) on thin polymeric films prepared by spin/dip coating.
- Analyzed the morphology of dewetted thin films by varying different process parameters at a time, under **Inverted Optical Microscope(LAS v4)**.

Content Developer Intern | Namah Educational Institute Pvt. Ltd. Jun'19 - Jul'19

- Developed fresh content for Joint Entrance Exam(Mains&Advance)from scratch based on research & ideas to generate a quality product.
- Organized and proofread the entire content in sequential order of syllabus using various computer-based applications and tools.

POSITIONS OF RESPONSIBILITY

Treasurer & UG Member | Chemical Engineering Association, IIT Kharagpur Aug'19 - Present

- Organized and Hosted **Internship Bootcamp** for the pre-final year students and **Induction programme** for the new UG batch.
- Promoted to the position of **Treasurer(For Academic Year 20-21)**based on the performance, conduct and active participation.

Volunteer, Guest Reception Team | Kshitij, IIT Kharagpur Jan'19

- Volunteered to work with a team of 39 members of the techno-management-fest to organize Kshitij'19 successfully.
- Assisted the members of the guest reception team to successfully **accommodate** all the guests attending the fest.

SKILLS AND EXPERTISE

- Financial Courses:** Financial Institutions and Markets, VGSOM | Financial & Legal Aspects of Business, RMSoEE
- Scientific Equipment:** Dip Coater | Spin Coater | Optical Microscope(Inverted) | Muffle Furnace(Calcination)
- Scientific Skills:** Dip Coating | Spin Coating | Replica-Moulding | Calcination | Sonication
- Technical Languages & Softwares:** C | HTML&CSS | Solid Works | MS Word | MS Excel | MS Powerpoint
- Interpersonal Skills:** Teamwork | Responsibility | Time-Management

COURSEWORK INFORMATION

- Core Course:** Fluid Mechanics | Thermodynamics | Heat & Mass Transfer | Reaction Engg | Mechanical Operation
- Mathematics Courses:** Transform Calculus | Probability and Statistics
- Other Courses:** Programming and Data Structures | Engineering Drawing | Basic Electronics | Economics
- MOOCs:** Supply Chain Operations & Logistics, Rutgers University | Introduction to Stock Markets, Varsity

COMPETITION/CONFERENCE

- Secured **1st position(Gold)** among all schoolmates in **International Olympiad of English Language(IOEL'13)**.
- Secured **1st position(Gold)** among all schoolmates in **National Cyber Olympiad(NCO'11)**.

EXTRA CURRICULAR ACTIVITIES

- Worked for students of Gopali School in the village and introduced them to the new era of education under **NSS**.
- Started an initiative **SATTVIK** & allied with students supporting vegetarianism, to bring a change in the mess system.
- Participated in Spring fest summer training programme to learn fundamental web development skills.
- Volunteered in **Teach Kgp** initiative and bestowed knowledge to children of staff members of various halls.