



Shailendra Ahirwar
 UG (IV Year I Semester)
 B.Tech. (Polymer Science and Engineering)
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 Registration No: 18121022/2022



Area of Interest

Polymer Processing, Elastomers Processing, Injection Molding, Rotational Molding

Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020	B.Tech. 3rd Year	Indian Institute of Technology, Roorkee	7.938
2017	Intermediate (Class XII)	Jawahar Navodaya Vidyalaya Khurai Distt. Sagar MP	83.80 %
2015	Matriculate (Class X)	Jawahar Navodaya Vidyalaya Khurai Distt. Sagar MP	8.200

Projects

Polymers for Fuel Cells and Charge Storage| Report | IIT Roorkee February 2021 - April 2021

- Worked as a team on polymer electrolyte membrane fuel cells, studied the role of polymers in fuel cells and analyzed them in detail
- Generalized the role of polymers in enhancing the performance of electrochemical supercapacitors and optimized the process to perform better
- Worked on the benefits of the techniques featuring surface area
- Coordinated with team to include the aspects of polymer-based supercapacitors

Stimuli-responsive polymers and their applications | IIT Roorkee June 2021 - Present

- Working on stimuli-responsive polymers
- Studied the different applications of such polymers in the medical field
- Lead the team to focus on temperature-responsive polymers and the pH-responsive polymers along with their behaviors
- Analyzed on different aspects of stimuli-responsive polymers towards response to their external fields

Production of Sustainable Aviation Fuels | IIT Roorkee September 2021 - Present

- working in a team and focus on design a production plant for sustainable aviation fuels

Awards / Scholarships / Academic Achievements

- B certificate Holder in National Cadet Corps (NCC)

Skills

Computer languages C, C++
 Software Packages Microsoft office
 Languages Known English (SRW), Hindi (SRW), Marathi (SR)

Positions of Responsibility & Extra Curriculars

Cadet | National Cadet Corps, IIT Roorkee January 2019

- Performed Guards of Honours Parades to the Director, Indian Institute of Technology, Roorkee in national festivals including Independence day 2018 and Republic Day 2019.

Cadet | 3 UK CTR NCC, IIT Roorkee November 2019 - December 2019

- Attended a 10-day combined annual training camp organized by National Cadet Corps starting from 24 November 2019 and stretching till 3rd December 2019
- Featured and served in various activities related to corps' culture

Department Placement Representative | Placement and internship, IIT Roorkee September 2020 - Present

- Worked as a leader to provides all information from the Placement and Internship Cell, IIT Roorkee to the students
- Mentored the students facing any technical/non-technical issues at the time of internship/placement process and resume filling
- Delivered smooth scheduling, event-management, handling aspirants during internship/placement processes

Coordinator | Thomso (Annual Cultural Fest of IIT Roorkee) October 2019

- Ensured smooth functioning of the fest throughout the duration and avoided chaos between participants
- Lead the event "Spin-a-Yarn," which focus on the development of creativity and imagination skills and ensured healthy participation in the same
- Delivered smooth training execution by coordinating event functions, including site selection, scheduling, handling participants and judges, event management, and follow-up
- Managed logistics of events planning, including participants' records, event booking, and event promotions

References

Dr. Pradip K. Maji

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Dr. Prateek Kumar Jha

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