



Sandeep
UG (II Year II Semester)
B.Tech. (Mechanical Engineering)
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Registration No: 23117127/2025



Education

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2024	B.Tech. 2nd Year	Indian Institute of Technology, Roorkee	5.011
2022	Intermediate (Class XII)	Prince Academy of Higher Education, Sikar (CBSE)	84.60 %
2020	Matriculate (Class X)	Prince Academy of Higher Education, Sikar (CBSE)	97.20 %

Projects

Married Hostel App | Hostel Council, IIT Roorkee August 2024 - June 2025

- Collaborated with the Hostel Council to define requirements, improve user interface design, and integrate features for room allotment, maintenance requests, and administrative communication.
- Key skills required were App Development, User Interface Design, Requirement Analysis, Stakeholder Collaboration, Hostel Management Systems.

Life Cycle Assessment of Products Enabling SHG Upliftment - Holi Color | Unnat Bharat Abhiyan, IIT Roorkee February 2025 - March 2025

- Organized training sessions in Village Puranpur to teach rural women the process of Holi color-making, empowering over 20 Self-Help Group (SHG) women with collaboration with the Government of India, I facilitated financial support.
- Coordinated marketing efforts, conducted market analysis to gauge demand, and managed sales stalls to effectively promote and distribute the colors, driving business growth and empowering the women economically.

Unveiling Future: Right to Education | Unnat Bharat Abhiyan, IIT Roorkee March 2025 - April 2025

- Identified eligible children under the Right to Education Act through door-to-door surveys in Puranpur village thereafter collecting necessary documentation, assisting parents in the digital registration process, and ensuring successful online submission of RTE applications.
- Contributed to awareness generation, Community Engagement, Documentation, Field Work and coordination with local authorities to facilitate enrollment in government-recognized schools.

Life Cycle Assessment of Products Enabling SHG Upliftment - Candle Making | Unnat Bharat Abhiyan, IIT Roorkee September 2024 - October 2024

- Organized training sessions in Village Puranpur to teach rural women candle-making, facilitating employment for over 20 Self-Help Group (SHG) women by connecting them to the marketplace.
- Aimed to empower rural women through comprehensive training, guidance, and financial support from the Government of India, managing stalls during Diwali, collaborating on marketing, and conducting in-depth market analysis to strategically launch the initiative.

Design and Development of Rigidizable Thin Walled Space Structures (ISRO) - FEM Analysis of Rigidized Space Antenna | IIT Roorkee July 2024 - November 2024

- Collaborated on the design, prototyping, and structural analysis of a deployable rigidizable thin-walled space antenna. Utilized CAD tools (SolidWorks) for detailed modeling, and employed 3D printing techniques for fabricating key components.
- Led assembly of a physical prototype focusing on structural integrity, deployability, and feasibility for space applications.

Awards / Scholarships / Academic Achievements

- Secured AIR 8609 in JEE Advanced Examination among 1.5 Lakh+ Candidates
- Gold Medal in Kabaddi, Jawahar Intra Bhawan Sports Meet 2025
- Gold Medal in Tug of War, MechOlympia 2024

Skills

Software Packages SolidWorks
Languages Known English(SRW) , Hindi(SRW)

Positions of Responsibility & Extra Curriculars

Executive Member | Unnat Bharat Abhiyan, IIT Roorkee August 2024 - May 2025

- Unnat Bharat Abhiyan, IIT Roorkee is an MHRD drive initiative aimed at providing technical resources and support for sustainable socio-economic development in rural areas.
- Collaborated with a team of 20+ members on various initiatives under themes such as Sustainable Development and Technology Intervention, while coordinating all activities and efforts in Puranpur village.

Executive Member | HEC, IIT Roorkee November 2024 - Present

- The students organization of IIT Roorkee pioneering in trekking, mountaineering and adventure sports.
- Assisted in organizing multiple treks, coordinating team efforts, route planning, and resource management. Fostered teamwork and outdoor leadership while ensuring adherence to environmental and safety protocols.

- Led planning and execution of flagship events Tech GC 2025 and Srishti 2025, fostering Innovation and technical excellence among students.
- Drove event strategy, promotions, and logistics, enhancing participation and audience experience.