

Suvarn Jaiswal

Second Year Undergraduate, IIT Kanpur , Department of Aerospace Engineering

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Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2021 - present	B.Tech in Aerospace Engineering	Indian Institute of Technology, Kanpur	7.7/10
2021	Class XII (CBSE)	GN National Public School	96.4%
2019	Class X (CBSE)	GN National Public School	97.2%

Scholastic Achievements

- Secured **All India Rank 3142** in **JEE Advanced** 2021 among 1.41 lakh shortlisted candidates, conducted by IIT Kharagpur
- Achieved **All India Rank 12275** in **JEE Mains** 2021 among more than 10.5 lakh candidates, conducted by the NTA

Projects

Multiphase Duct Flows

Oct'22 - current

Mentor: Prof. Debopam Das, AE, IIT Kanpur

- Solved Navier Stokes Equations for 2 dimensional flow with 2 immiscible fluids and came up with laplace solutions which can be used to find numeric solutions of the flow.
- Going to conduct an experiment to verify the results obtained by the analytical solution and check the stability of solution

Geometric Mechanics

Mar'22 - Aug'22

Mentor: Mohammed Saad, Stmatics, IIT Kanpur

- Did a reading project of Classical Dynamics: A Contemporary Approach by Jorge Jose and Eugene Saletan.

Work Experience

SURGE IITK

11 May'23- 13 July'23

Mentor: Prof. Debopam Das, AE, IIT Kanpur

Title: Experimental setup for measuring the velocity profile of more than one fluid duct flow

Technical Skills

Programming: C, C++, C#, Python

CAD: Fusion 360

Relevant Coursework

Incompressible Aerodynamics(A)

Fluid Mechanics and Rate Processes

Mechanics of Solids

Thermodynamics

Introduction to Electronics(A)

Experiments in Aerospace Engg.(A)

Introduction to Aerospace Engg.

Dynamics

Partial Differential Equations

Introduction to Complex Variables

Positions of Responsibility

Senior Executive, Show Management, Techkriti IIT Kanpur

January'23 - March'23

- Helped organize the fest and did some of the legal work associated
- Lead a team of 7-8 junior Executives and helped the PR team in accommodating the main artists.

Senior Executive, TOSC, Techkriti IIT Kanpur

September'22 - January'23

- Organized the arrival of students onto campus in the 2nd phase of exam.
- Brought nearly 500 registrations and lead a team of 33 Junior Executives with another Senior Executive.

Co-curricular Activities

Weightlifting Team, IIT Kanpur

April'22 - current

- Participated in InterIIT'22 weightlifting competition
- Won a gold medal in junior district level weightlifting competition
- Won Bronze medal in Udghosh'22 weightlifting competition
- Won Silver medal in Inferno'23 powerlifting competition
- Was captain of the powerlifting team of Marathas in Inferno'23