

ANKUSH KHARE



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ABOUT ME

Second-year Mechanical Engineering student at NIT Jalandhar skilled in SolidWorks, Ansys Fluent, and MATLAB. Passionate about fluid mechanics and structural design, with project experience in centrifugal pump design and flow analysis. Seeking a summer internship to leverage my analytical skills and contribute to impactful mechanical engineering projects.

EDUCATION

2024 - 2028(expected)

[Dr B R Ambedkar National Institute of Technology, Jalandhar](#)

Bachelor of technology in mechanical engineering

Current CGPA: 7.81/10.0 (up to 3rd Semester)

Completed or completing Coursework:

[Fluid Mechanics](#), Applied Thermodynamics, Basic Thermodynamics, Mechanics of Materials, Theory of Machines, Engineering Mechanics of Solids, Computer Aided Machine Drawing*, Engineering Graphics & CAD. Materials & Manufacturing: Materials Science for Engineers, Product Realization (Workshop Practices). Problem Solving using Python, Mathematics I & II, Elements of Electrical & Electronics Engineering, Design Thinking for Industrial Innovation. [Fluid Flow Analysis](#), [Basics of Mechanical Design](#), IC Engines and Gas Turbine, Dynamics of Machines, Manufacturing Technology, Materials Engineering & Technology, Numerical Methods in Mechanical Engineering

PROJECTS

Design & Flow Analysis of Centrifugal Pump | SolidWorks, Ansys Fluent

- Designed a complete 3D CAD model of a centrifugal pump, including the impeller and casing.
- Simulated internal fluid flow to analyze pressure distribution, velocity contours, and mass flow rates for efficiency evaluation.

Aerodynamic Modeling of Turbine & Fan Blades | SolidWorks, Ansys Fluent

- Modeled geometrically accurate wind turbine and standard fan blades.
- Executed CFD analysis to study airflow patterns, drag forces, and overall aerodynamic performance.

SKILLS

• Ansys fluent

• Solidworks

• MATLAB

• Autocad