



# Sambodhi ghansawadh

Course: BTech manufacturing science and engineering  
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COEP

## ACADEMIC DETAILS

course	institute/college	Board	Score	year
class X	jawahar secondary and higher secondary vidyalaya	MSBSHSE	96.60	2021
class XII	jawahar secondary and higher secondary vidyalaya	MSBSHSE	80.17	2024

## Subject's/Electives

Principles of Economics, Process Planning and Tool Design, Manufacturing Processes , Design of Machine Elements, Behaviour at Workplace and Performance Management, Product Design and Development, Fluid Power, Strength of Materials, Theory of Machine, Advanced Applications and Data Analytics, CAD/CAM/CIM, Engineering Thermodynamics and Heat Transfer, Machining Science and Technology, CNC Programming and Machining, Product and System Graphics, Manufacturing Automation, Operations Research, Entrepreneurship, supply chain management, sustainable finance

## SUMMER SOCIAL INTERNSHIP

June -july 2025

Social Summer Intern | Manavseva Care Centre, Nashik

- Dedicated 160+ hours to supporting residents and operations at an elderly care facility.
- Streamlined organizational efficiency by managing comprehensive documentation and administrative records.
- Collaborated on fundraising initiatives, assisting in the acquisition of resources to improve facility amenities and patient care.
- Contributed to program planning and daily logistics

## CERTIFICATIONS

certification	CERTIFYING AUTHORITY
Lean Six Sigma	Udemy

## SKILLS

- Software/Languages: CATIA ,FEMAP, FLUIDESIM ,XFOIL, STK, ANSYS, Fusion360, Solidworks, OnShape, open rocket, open motor, MATLAB & Python (basics)
- Manufacturing Machine and Processes: CNC, Lathe Machine, Milling Machine, Welding
- Personal: Public speaking, technical report writing, teamwork, leadership, conflict resolution, problem solving,

## VOLUNTEER

ZEST'26 (India's 5th largest sports festival, COEP)

Jan-2026

Alumni Outreach Coordinator

- Led alumni engagement initiatives, connecting with former students to support event funding
- Raised highest monetary support within my portfolio around **39 Thousands**
- Relationship management Developed communication and negotiation skills while interacting with diverse alumni

## CLUBS & ACTIVITIES

Rocket propulsion center, COEP

2024- Present

- Engineered and flight-tested a K-class solid rocket motor of KNDX (sucrose based), successfully achieving an apogee of 500m.
- Conducted controlled static fire tests, recording a total impulse of 2,000 N-s and validating internal ballistic pressure models.
- Optimized propellant grain geometry to ensure stable combustion and predictable thrust curves
- Manufacturing: Fabricated grains using casting and nozzles and casing, ensuring tolerances met safety standards for high-pressure environments.

## EXTRA CURRICULAR ACTIVITIES

chess

Classical singing

Rocketry

## LANGUAGES

English, Marathi, Hindi,