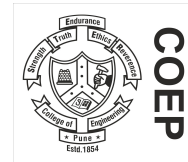


**MRUNMAYI SAHEBRAO SANGLE**Course : **B.Tech**, Mechanical Engineering, 2027

Email : sanglems23.mech@coeptech.ac.in

Mobile : 8010653684

CGPA : 7.4

**ACADEMIC DETAILS**

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	Arts, Science & Commerce college Ozhar (mig)	Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE)	72.67 %	2023
CLASS X	Shining Star Academy	Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE)	86.8 %	2021

<b>Subjects / Electives</b>	Introduction to Supply Chain Management, Data analytics, Complex analysis
<b>Technical Proficiency</b>	MATLAB, Python, AutoCAD, Fusion 360, SolidWorks

**INTERSHIPS****Research and Development, M.I.T.R.A Agro Equipments****May 2025 - Jun 2025**

During my six-week internship at M.I.T.R.A Agro Equipment Pvt. Ltd., I worked on analyzing and optimizing an Inline Pressure Filter, applying concepts like thin and thick cylinder stress analysis and calculating mesh parameters manually. I also learned and practiced SolidWorks, starting from basic 2D sketches to advanced 3D modeling features. This experience helped me apply classroom knowledge to real-world engineering challenges and improved both my technical skills and understanding of industrial design practices under expert mentorship.

As part of my internship at M.I.T.R.A Agro Equipment Pvt. Ltd., I undertook a focused project on the optimization of an inline pressure filter a critical component in orchard spraying systems. The objective was to improve the filters performance and structural reliability by analyzing its design parameters and material behavior under pressure.

The project involved applying mechanical design principles, particularly thin and thick cylinder stress analysis, to determine safe values for thickness, diameter, and length of the filter body. Using equations from Lames theory, I calculated hoop stress and radial stress for various conditions.

A significant part of the study was dedicated to understanding the mesh filter inside the component. I manually calculated mesh number, aperture size, and wire thickness, which are crucial for effective fluid filtration. These calculations were supported by references from Bhandaris textbook and technical research papers.

Although no CAD model was created for the component, the entire analysis was theory-based, validated with mentor guidance, and aimed at aligning the components structural design with its practical functionality in the field.

**POSITION OF RESPONSIBILITY****Punt Formation Participants - Punt Formation****Feb 2024 - Mar 2024**

COEP Regatta Punt Formation Participant

I participated in the prestigious Regatta festival at COEP, one of Indias oldest and most iconic boating events held on the Mula River. As part of the Punt Formation team, I helped create stunning illuminated patterns on water using traditional punt boats. This performance required intense teamwork, coordination, and late-night rehearsals. It was a proud moment to contribute to a century-old legacy that blends tradition, creativity, and team spirit

**Volunteer - Impression****Aug 2023 - Dec 2023**

Volunteer COEP Impression (Cultural Fest)

Contributed as an Accounts Volunteer, assisting in managing event budgets and financial tracking, and also served as an F&B (Food & Beverages) Volunteer during one of the fest days, helping with vendor coordination and service logistics. Gained hands-on experience in teamwork, event management, and multi-tasking during Maharashtras one of the largest student-run cultural fests, known for hosting competitions, pro shows, and workshops across dance, drama, music, and literature.

**EXTRA CURRICULAR ACTIVITIES****Dancing**

Im a passionate self-taught dancer who finds pure joy in movement and rhythm. Though I havent had formal training, Ive always been deeply

I'm a passionate self-taught dancer who finds pure joy in movement and rhythm. Though I haven't had formal training, I've always been deeply connected to dance, especially in styles like Kathak, semi-classical, and Bollywood.

I love the grace, expressions, and footwork that Kathak offers; it helps me connect with tradition and emotion. Semi-classical dance allows me to blend that classical elegance with creativity and personal expression. And Bollywood brings out my vibrant, energetic side—it's fun, dramatic, and full of life.

For me, dancing is more than just steps—it's a way to express feelings, tell stories, and feel alive. Every time I dance, I feel confident, free, and truly myself.

## CERTIFICATIONS

CERTIFICATION	CERTIFYING AUTHORITY
Lean six Sigma	Council for Six Sigma Certification

## VOLUNTEER EXPERIENCE

**Marathi Vidnyan Parishad** - Role: Volunteer | Cause: Environment

**Jun 2024 - Jul 2024**

As a volunteer with Marathi Vidnyan Parishad, I contributed to an environmental awareness initiative in urban areas. My responsibilities included conducting location surveys for plantation, participating in tree plantation drives, and learning about sustainable tree care methods. I also helped in organizing awareness campaigns, distributing informative pamphlets, and documenting tree growth progress. Engaging with local communities, we promoted eco-friendly practices and encouraged long-term care of green spaces. This experience strengthened my knowledge of environmental science, teamwork, and civic responsibility.

## LANGUAGES KNOWN

English, Hindi, Marathi