# Vidyavardhini's College of Engineering & Technology

Founder President Late Padmashri H. G. Vartak

Approved by AICTE, DTE Maharashtra and Affiliated to University of Mumbai
NAAC accredited, 4 Programmes Accredited by NBA

## First Year Engineering
## Annual Report 2023–24

It gives me immense pleasure and honor to present the annual report of the First Year Engineering for the academic year 2023-24. The main objective of the First Year Engineering is to build a strong foundation of all the different branches of the engineering courses. Under the expert guidance, support, and sincere efforts of Faculty members the students can complete their four years tenure of the engineering course and become proud engineers of the Institute ready to reach the pinnacle of success.

The various activities and achievements of the First Year Engineering are as summarized below:

**Faculty Achievements:**

1. Mr. Mayur Gohil qualified GATE Exam 2024, Mathematics

**Paper Publications/Conference attended:**

1. Dr. Suraj Vishwakarma published a research article titled "Influence of thermal annealing on silicon negative ion implanted SiO2 thin films" in an Elsevier Journal Named Nuclear Inst. and Methods in Physics Research, B' Vol. No. B 546 (2024) 165154.
2. Dr. Madhuri Kharpade published a research article titled "Development of Room Temperature Ammonia Sensor based on CNF/Nano ZSM-5 Composites" Materials Today: Proceedings, July 2023.
3. Dr. Madhuri Kharpade published a research article titled CNF/Cu-ZSM-5 Green Nanocomposite: Excellent Flexible Ammonia Sensor J Porous Mater in July 23.

**Dr. Pradip Gulbhile**

1. Honored for NSS activities at Mumbai University Convocation Hall

2. Represented VCET and Palghar District at G-20 Summit at Pune University

3. Presented VCET NSS Unit at NSS Annual Evaluation Programme, Mumbai University.

4. Honored with a certificate of appreciation from Local Governing Body (Gram Panchayat) Makunsar Village.

**NPTEL Courses**

| Sr. No. | Accreditation and Outcome Based Learning |
|---|---|
| 1 | Ms. C. Sonarkar |
| 2 | Ms. Beauty Ansari |
| 3 | Dr. Pradip Gulbhile |
| 4 | Dr. Suraj Vishwakarma |
| 5 | Ms. Kamini More |
| 6 | Ms. Prachee Shah |
| 7 | Ms. Ankita Jadhav |
| 8 | Ms. Praiza Gonsalves |
| 9 | Mr. Ganesh Tilave |

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| Sr. No. | Outcome Based Pedagogic Principles for Effective Teaching |
|---------|-----------------------------------------------------------|
| 1 | Ms. C. Sonarkar |
| 2 | Ms. Beauty Ansari |
| 3 | Ms. Gloria Collaco |
| 4 | Ms. Dhanashree Lamane |
| 5 | Ms. Prachee Shah |
| 6 | Ms. Praiza Gonsalves |
| 7 | Ms. Heena Singh |

| Sr. No. | NBA Accreditation and Teaching and learning in Engineering (NATE) |
|---------|-------------------------------------------------------------------|
| 1 | Ms. Shobna Shirsath |
| 2 | Ms. Vaishnavi Gurav |
| 3 | Ms. Gloria Collaco |
| 4 | Ms. Tanya Dsouza |
| 5 | Ms. Anahita Pereira |
| 6 | Dr. Rhushirajeshwari Naik |

1. Dr. Suraj Vishwakarma completed one week certification course on "Fabre Optics: Communication and Sensing Applications" from 10th July-2023 to 14th July-2023 conducted by Applied Science Department, NITTR, Chandigarh.

2. Dr. Suraj Vishwakarma completed 4-Weeks certification Course on "Fundamentals of Electronic Device Fabrication" from July to August 2023 under NPTEL conducted by IIT Madras.

3. Mr. Ambuj Tiwari completed one week certification course on "Fabre Optics: Communication and Sensing Applications" from 10th July-2023 to 14th July-2023 conducted by Applied Science Department, NITTR, Chandigarh.

4. Ms. Tanya D'souza completed a Two-Weeks Online Course on Listening Skills to Succeed at University organized by the University of Leeds on 19 Feb. 2024.

**FDPs/STTPs Attended:**

| Sr. No. | Innovative and Creative Approaches for Teaching and Research |
|---------|-------------------------------------------------------------|
| 1 | Ms. Beauty Ansari |
| 2 | Dr. Rhushirajeshwari Naik |
| 3 | Dr. Suraj Vishwakarma |
| 4 | Ms. Kamini More |
| 5 | Ms. Prachee Shah |
| 6 | Mr. Ambuj Tiwari |
| 7 | Ms. Vaishnavi Gurav |
| 8 | Ms. Ankita Mane |
| 9 | Ms. Tanya Dsouza |
| 10. | Ms. Praiza Gonsalves |

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| 11. | Mr. Mayur Gohil |
|---|---|
| 12 | Mr. Ganesh Tilave |
| 13 | Ms. Deepika Panchal |
| 14 | Ms. Anahita Perira |
| 15 | Ms. Shobna Shirsath |
| 16 | Ms. Heena Singh |
| 17 | Ms. Dhanashree Lamane |

| Sr. No. | Universal Human Values |
|---|---|
| 1 | Dr. Rhushirajeshwari Naik |
| 2 | Ms. Vaishnavi Gurav |
| 3 | Ms. Gloria Collaco |
| 4 | Ms. Deepika Panchal |
| 5 | Ms. Anahita Pereira |
| 6 | Ms. Heena Singh |
| 7 | Ms. Tanya Dsouza |

**Courses completed**

**Mrs. Chandrakishori Sonarkar & Ms. Beauty Ansari-**

**i)** 5 days online FDP on Advancements in Green Energy Technologies and its significance in sustainable development, BVCOE, Navi Mumbai from 3–7 July 2023.

ii) 5 days online FDP on Air, Water Pollution and Health, NITTTR, Kolkatta from 31st July–4th August, 2023.

**Mrs. Chandrakishori Sonarkar**

i)12 days online FDP on Exhilarating SOCIO Human Life Using Deep Learning, VCET Vasai from 3–7 July 2023.

ii) 5 days online FDP on Innovative practices in teaching learning process, Navsahyadri group of institutes, Pune from 19–23 December 2023.

**Dr. Suraj Vishwakarma & Mr. Ambuj Tiwari**

i) A 5-Days Online FDP on "Functional Materials and Devices: Energy, Environment and Sustainable Development" organized by the Department of Physics, Presidency University, Bangalore from 10th July to 14th July 2023

**Mrs. Ankita Mane Mrs. Praiza Gonsalves & Mr. Mayur Gohil**

A 7-day Virtual FDP on "Research Insights for Academic Excellence" conducted by Dept. of Mathematics, KPR college of Arts Science and Research, Coimbatore, TN, from 3–8 Aug. 2023

**Mr. Mayur Gohil**

5-Days FDP on "Spectral Theory and Its Application in Graph Theory" conducted by Vellore Institute of Technology, Vellore, from 27 Nov–1 Dec 2023.

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**Ms. Prachee Shah**

i) 5 Days FDP by Microsoft, SAP & AICTE led AI & Cloud: Workshop on responsive AI in the cloud: Leveraging Generative power in the Cloud under TechSaksham from 21st August 2023 to 25th August 2023.

**ii)Conducted** "Introduction to Generative AI with Google Cloud as part of India Edu Program's: Tech Talks" for Educators.

iii)Two-Day Workshop on "Robotics" at Vidyavardhini's College of Engineering & Technology, Vasai on 19–20 Oct. 2023.
iv) session on "Impact of Generative AI on skills and Future Jobs in Higher Education" conducted by India Didactics Association.

**Ms. Heena Singh**

6-Days Online FDP on Cyber-Physical Systems: Bridging IoT Electronics & Computer Science & Cyber Security" held during 23 June– 1 July 2023 organized by Thakur College of Engineering and Technology, Mumbai, Maharashtra.

**Ms. Tanya D'souza**

One-Week Online FDP on "Fannonism Unveiled: A Comprehensive Exploration of Franz Fannon's Impact on Literature and Contemporary Discourse" organized by Career Development Cell (CDC), Gokul Global University, Siddhpur, Gujarat from 15–21 Jan. 2024.

One-Week Online National Level FDP on "Bridging Gaps: Mastering the Art and Science of Classroom Communication" organized by Career

Development Cell (CDC), Gokul Global University, Siddhpur, Gujarat from 29 April–5 May 2024.

**Student's Achievements:**
**Result for Academic Year 2023–24:**

**Sem I Toppers**

| Rank | Name | Pointer |
|------|------|---------|
| 1 | Rishiraj Yadav | 10 |
| 2 | Dnyanesh Khandare and Nikita Solanki | 9.89 |
| 3 | Saiesh Mangesh Sutar | 9.83 |

**Sports:**
1. Miss. Palak Chuti won Gold Medal for Team Championship, Silver for overall Individual Championship and bronze for Individual pole Mallakhamb Championship in Khelo India youth games, held in Trichy, Tamil Nadu between 21–24 Jan 2024.
2. Saish Sutar won 3rd prize in 1st AeroGCS Global Competition held on 24th Feb 2024 in Nashik at Sandip University campus Hosted by PDRL, a drone technology company.
3. Tanvi Patil won first prize in carrom singles girls at Jogeshwari Education Society's College of Commerce, Science and Information Technology held on 30 Jan 2024.

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**Oscillations 2024:**
**Indian Knowledge System – Winners**

| Branch | Name | Position |
|---|---|---|
| FE CSEDS | Arnav Gupta<br>Yasmin Amdabadwala<br>Suruchi Gupta | Winners |
| FE COMP | Atharva Karekar<br>Disha Kini<br>Samruddhi Kharawade | Runner Up |
| **Track 2** | | |
| FE IT | Lokesh Bawaskar<br>Priya Gaikwad<br>Shradha Gupta | Winners |
| FE EXTC | Ninad Palkar | Runner Up |

**Dr. Sunayana Jadhav**

**FE Coordinator.**