

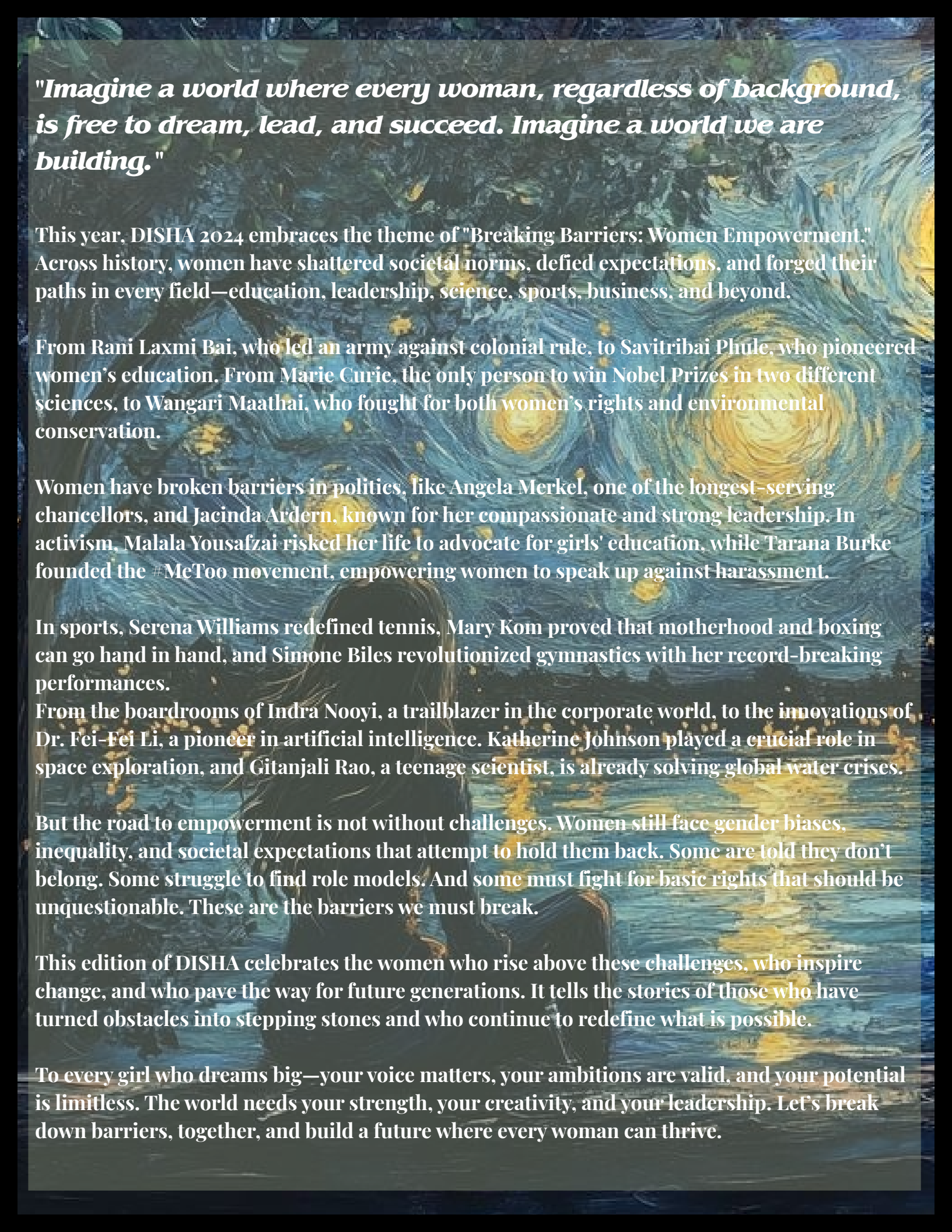
BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL COLLEGE OF ENGINEERING

DISHA'25

BREAKING
BARRIERS

"Empowering Women"

44th Edition



"Imagine a world where every woman, regardless of background, is free to dream, lead, and succeed. Imagine a world we are building."

This year, DISHA 2024 embraces the theme of "Breaking Barriers: Women Empowerment." Across history, women have shattered societal norms, defied expectations, and forged their paths in every field—education, leadership, science, sports, business, and beyond.

From Rani Laxmi Bai, who led an army against colonial rule, to Savitribai Phule, who pioneered women's education. From Marie Curie, the only person to win Nobel Prizes in two different sciences, to Wangari Maathai, who fought for both women's rights and environmental conservation.

Women have broken barriers in politics, like Angela Merkel, one of the longest-serving chancellors, and Jacinda Ardern, known for her compassionate and strong leadership. In activism, Malala Yousafzai risked her life to advocate for girls' education, while Tarana Burke founded the #MeToo movement, empowering women to speak up against harassment.

In sports, Serena Williams redefined tennis, Mary Kom proved that motherhood and boxing can go hand in hand, and Simone Biles revolutionized gymnastics with her record-breaking performances.

From the boardrooms of Indra Nooyi, a trailblazer in the corporate world, to the innovations of Dr. Fei-Fei Li, a pioneer in artificial intelligence. Katherine Johnson played a crucial role in space exploration, and Gitanjali Rao, a teenage scientist, is already solving global water crises.

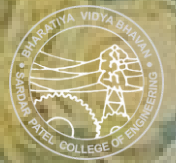
But the road to empowerment is not without challenges. Women still face gender biases, inequality, and societal expectations that attempt to hold them back. Some are told they don't belong. Some struggle to find role models. And some must fight for basic rights that should be unquestionable. These are the barriers we must break.

This edition of DISHA celebrates the women who rise above these challenges, who inspire change, and who pave the way for future generations. It tells the stories of those who have turned obstacles into stepping stones and who continue to redefine what is possible.

To every girl who dreams big—your voice matters, your ambitions are valid, and your potential is limitless. The world needs your strength, your creativity, and your leadership. Let's break down barriers, together, and build a future where every woman can thrive.



BHARATIYA VIDYA BHAVAN'S
SARDAR PATEL COLLEGE OF ENGINEERING



DISHA'25

Presents

"BREAKING BARRIERS"

• Disclaimer: All the views expressed in the subsequent articles and poems are individual opinions of writers and not of the institution. The institution does not hold any responsibility regarding any content given by students.

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Shri Sardar Vallabhbhai Patel



Kulpati Shri Dr. K.M. Munshi

Vision

Sardar Patel College of Engineering (SPCE) aspires to be an institution of national repute that will create professionals with competence and motivate research for the progress of the nation.

Mission

- To impart quality education through time relevant curriculum in academic programs.
- To enhance career opportunities for students through industry institute interaction and value added courses.
- To promote excellence by encouraging innovative ideas and lateral thinking.
- To inculcate sense of discipline and responsibility towards society.

Core Values

- | | |
|---------------------|------------------|
| • Quality Education | • Responsibility |
| • Diversity | • Equity |
| • Integrity | • Excellence |
| • Accountability | |

Foreword

"There is no 'glass ceiling'—just barriers waiting to be broken."

With immense pride and joy we present to you the latest edition of the SPCE Annual College Magazine – DISHA 2025. For over four decades, DISHA has served as a beacon of creativity, innovation, and self-expression, capturing the evolving spirit of SPCE's students, faculty, and vibrant campus life.

As DISHA enters its 44th edition, we embrace a theme that is not just a conversation but a movement—"Breaking Barriers: Women Empowerment." Throughout history, women have pushed beyond limitations, shattered stereotypes, and redefined possibilities. From science to sports, leadership to literature, entrepreneurship education—women have risen against the odds and claimed their space in every field.

Breaking barriers is about more than individual success—it is about opening doors for others, challenging societal norms, and ensuring that the next generation has a smoother path. True empowerment comes when we create a world where ambition is not defined by gender, where voices are heard without prejudice, and where every woman has the opportunity to thrive. Through this edition, we celebrate the strength, resilience, and achievements of women who continue to inspire and lead change.

We extend our heartfelt gratitude to our Respected Principal, Dr. M. M. Murudi, and Dr. Shyamlee Solanki, Chairperson of the Student's Welfare Committee, for their unwavering support. A special thanks to our faculty members, students, and council members for their cooperation, contributions, and encouragement. This magazine would not have been possible without the dedication of our magazine committee, whose vision and passion brought this edition to life. A sincere appreciation to Khushi, Arohi, Anvika, Vivek, Aryan, Neelanjana, Sagarika for their relentless efforts in curating and refining this publication.

DISHA is more than just a magazine—it is a platform, a voice, and a movement. What began as a small vision has transformed into a powerful narrative of talent, resilience, and creativity. We invite you to dive into this edition, to be inspired, to challenge norms, and to break barriers—because the future of technology belongs to everyone.

~ Dhanshree Chavan & Digvijay Londhe
Magazine Secretaries,
Students' Council 2024-25

FROM THE PRINCIPAL'S DESK



DR.M.M.Murudi

Sardar Patel College of Engineering (SPCE) was established in 1962 under the management of Bhartiya Vidya Bhavan. SPCE was granted autonomy since 2010, and the college has achieved numerous milestones since then. SPCE has always strived to meet the growing demand for engineering talent and to continue growing and improving.

The Postgraduate programme Structural Engineering in Civil Engineering Department is accredited for three years till 30.06.2026. Undergraduate programmes B.Tech in Civil and B.Tech in Mechanical are accredited till June 2025 and compliance report is submitted to NBA for further extension of accreditation for these programs. The National Board of Accreditation (NBA) Expert Team visited the institute from 28th to 30th March 2025 to evaluate UG Engineering Programmes in Electrical Engineering and the result is awaited. The institute has been reassessed by NNAC and has improved the NAAC grading from B to B++ grade. The institute has been granted extension of autonomy for five more years (2022-23 to 2026-27) by UGC.

SPCE is now entering its 16th year of autonomy. The institute is following the Outcome Based Education System. Our Institute is one of the very few institutes who have implemented NEP 2020 through R23. NEP 2020 will allow students to experience holistic and multidisciplinary education in addition to a focus on chosen majors with multiple entries and multiple exit options. In regulation R23, apart from change in curriculum, the evaluation system is also modified. Equal weightage is given to Continuous Internal Evaluation and Semester End Evaluation. The faculty is using innovative methods of evaluation which help for improving the results and transition rate. Our professors and the supporting staff of SPCE have worked hard towards implementing courses and programmes that play a major role in improving the students' technical skills and in their overall development.

Research Activities:

Sardar Patel College of Engineering (SPCE) has various research accomplishment and achievements in the year 2024-25. SPCE in joint collaboration with SPIT has installed 33 KW solar power plants on SPCE roof top and is functioning with partial energy powering SPCE laboratories with rest sent to the grid. Plant facility is also used by M. Tech. and PhD scholars for investigating the many research attributes. Mechanical Engineering Department established the Blue Star sponsored Centre of Excellence in the area of Heating Ventilation and Air Conditioning (HVAC). Institute also received approval for UG equipment grant of US dollar 4092 from American Society of Heating Refrigeration and Air Conditioning Engineers (ASHRAE).

Increase in Research Publications: The research culture has enabled faculty and students to engage in high-quality research, resulting in a notable increase in research publications in reputed journals. SPCE researchers have made significant contributions to various fields, disseminating their findings to the academic community and beyond. SPCE exhibit good performance in the research publications in the calendar year 2024-25. Total 55 (34 Journals and 17 Conference papers, 03 Book Chapters and 01 Review Articles) research papers are published in the calendar year 2024-25 which are peer reviewed. The publication count per faculty per year rose from 0.54 to 1.14 with major share being in journal publications.

Our faculty member Dr. Sumbul Abidi, assistant professor from Electrical department has been awarded PhD degree from IIT Bombay. Seven PhD scholars from Mechanical Engineering, two from Civil Engineering and one PhD scholar from Electrical Engineering defended their PhD topic successfully in 2024-25 and eight research scholars have been awarded PhD degree by University of Mumbai.

The Civil Engineering Department has taken lead in testing and consultancy project. In the year 2024-25, the institute has generated revenue of Rs 1.9 Cr by means of testing and consultancy works.

Two student projects were shortlisted for the final rounds of the 19th AAVISKAR research convention organized by the University of Mumbai. Further students achieve good ranks in international and national project competitions. Student Mr. Bhiva Jetha and Miss Kruti Jharbade received best paper presentation award in 51st National Conference on Fluid Mechanics and Fluid Power.

Other Key Achievements:

Proposal on Increase in Intake of PhD centers in Electrical Engineering has been approved by University of Mumbai and now intake has been increased from 10 to 35. Our professors have attended international conferences, participated in various webinars and workshops, and have also engaged in research projects to broaden the scope of their knowledge and published research papers. Our faculty members have delivered expert lectures/talks at various organisations. Our faculty members are special committee members at different Universities, institutes and organisations. Our faculty members are also reviewers of Scopus index journals.

The supporting staff engages in several developmental courses and strives to implement better practices amongst the students and professors alike. The students have also organised the technical and social events, like SPHINX an annual cultural and technical festival, SPIRIT- annual sport activities, and the annual debate competition. Our students are participating in various activities/ competitions via ROBOCON, WAVE, and SPCE RACING CLUB.

New Hostel Proposal:

Due to inadequate hostel capacity, many meritorious students opt for other institutes despite their interest in SPCE. Students who do not secure hostel accommodation must arrange for costly alternatives. Recognizing this challenge, SPCE proposed a new eight-story hostel building featuring 224 rooms, a library, a computer center, a gymnasium, a mess, indoor sports facilities, and guest rooms etc. The proposal was approved by the governing body and had forwarded the proposal to Bharatiya Vidya Bhavan's Head office for their approval. Recently the proposal has been approved by the Bhavan's Head Office. The construction work will begin soon.

SPCE Alumni Association:

The SPCE alumni association is active and has several plans to contribute to the growth of the institute. The institute is proud to share few of the notable contributions of alumni: The canteen was renovated with the help of alumni association. Alumni association contributed 22 Lakhs for the renovation. The planning and renovation work was carried out by our alumni. The Robotic laboratory development is taken up by the alumni and is contributing Rs. 15 Lakh. Alumni association also has provided financial aid to the needy students and sponsored student to attend conference.

SPCE remains committed to excellence in education, research, and student development. With continued efforts from faculty, students, and alumni, the institute aims to achieve even greater heights in the years ahead.

DEANS



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Dr.Balwant Bhasme

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Dr Sachin Vankar.

Prof. Sharad Valvi
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Prof. Don Plackal.



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Prof.Divya T.A.

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DISHA'25

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CIVIL DEPARTMENT REPORT

Introduction

The Civil Engineering Department has been in existence since the establishment of this institute. The department has excellent infrastructure and is AICTE-approved. Apart from the undergraduate programme, postgraduate programmes in construction management and structural engineering are offered. The department is approved by the University of Mumbai for the Ph. D. programme, with an intake capacity of 45. In addition, the department has been selected as a QIP centre by the AICTE. AICTE provides financial assistance for three years to the research scholars registered under QIP. In the year 2024-25, UG Programme in Civil Engineering (WP) was started with an intake of 30 and the PG programme intake was increased to 24 for Post Graduate Programme in Civil Engineering with Structural Engineering and Construction Management. NBA compliance for UG Civil Engineering Programme is submitted in December 2024.

Present Status of Intake in Civil Engineering Department TABLE

No. of Programmes Offered	06
Year of Establishment	1962

Undergraduate Civil Engineering Programme	Accredited till 30.06.2025
Post graduate Civil Engineering Programme with Structural Engineering	Accredited till 30.06.2026

Department Activities

NEP 2020 was implemented for 2nd year UG and PG with Regulation 2023 scheme with regulation 2023 scheme. NAAC accreditation visits for college took place in November 2024. 5 tenure based faculty were appointed for PG programmes of the department. The details of other activities are mentioned as follows.

- Site Visits arranged : 13 (Bhandup treatment Plant UG , Coastal road Visit , IFAT (UG), Skyway RMC Plant (Kurla), Bhandardhara Dam (UG) and Underground metro Tunnel Line 7A PG (CM), CIDCO water tunnel project Tunnel (PG SE), RMC (Harsh Construction) (CM) Govardhan Eco Village (CM and SE), Metro Girder Casting Yard (PGSE) Project Land Survey Project for SY BTech (3 days) and Working Professional (3 days), BMC and CT Harsh Construction, Shriyan Heights for CPRF foundation at Charkop were conducted.
- Lectures and Workshops arranged: 8 Guest Lectures and 6 workshops (6 days Primavera and BIM, EPANET and Jaltantra (o2 numbers), CANDY SOFTWARE (2days) 4 days GIS, GPS, Skill based course on Life cycle Assessment (24 hrs) .

Special Achievements

- Dr Murudi's student Neelam Petkar was awarded PhD degree in 2024-25. He is working in several AICTE, DTE, State Govt. and University committees.
- Dr Nagrale is working as part of several committees of AICTE, DTE and State Govt. Dr Nagrale Project batch students reached top 70 out of 270 projects in Aavishkar
- Dr Bage is working as member of several committees of state govt. AICTE and DTE
- Dr. A.R. Kambekar has guided PhD student Ms. Shweta Patil and she has been awarded PhD degree in Civil Engineering of Mumbai University during 2024-25 and Dr. A. R. Kambekar has examined PhD Thesis of Dr. BAMU Chatrapati Sambhajinagar, Shivaji University Kolhapur, SPPU Pune University, PAH Solapur University and DBATU Lonere. He was invited to deliver expert lectures at various AICTE approved FDPs/ ISTE-STTPs at different places. He is a member of several committees of AICTE and various Universities.
- Dr Hansa Jeswani's BTech project batch reached to top 10 of Mumbai University out of 270 projects in Aavishkar and she examined PhD thesis in Dept of Civil Engineering, Maharaja Sayajirao University. She gave lectures at 4 FDPs
- Dr P Gaikwad's batch secured People's choice award in Aakar, IIT Bombay
- Dr Raskar Phule's Project batch students reached top 70 out of 270 projects in Aavishkar.

She has given training at SSVPS Dhule as part of MoU with them. Students from Saboo Siddik interned under her as part of MoU. Also she has delivered several lectures in FDPs. Her BTech student presented a paper in IIT Jammu Conference

- Dr Ghadge completed the DST SERB project successfully and also**
- Dr Kshitija published paper with her students in Springer Nature.**
- The work order for 2 major consultancy projects of MPCB and MBMC were given to CED Dept.**

Invited Lectures delivered by faculty in other campuses/colleges/industry

Dr Kambekar delivered 3 invited lectures in various places in Maharashtra related to topics as varied as NEP to genetic algorithm. Dr Jeswani delivered 4 invited lectures 1 at Maharaja Sayajirao University related to importance of Environmental Engineering and Job scope of environmental engineering and 3 in various colleges in Mumbai related to Green Club activities. Dr Raskar-Phule also delivered 3 invited lectures in Maharashtra and conducted training related to GIS in Maharashtra and Gujarat. Dr Nadgouda delivered lecture on Geotechnical Engineering in Maharashtra

Journal Reviewers

Dr Ajay Kambekar (21 journals), Dr Hansa Jeswani (02 journals), Dr Reshma Raskar Phule (02 journals), Dr. A. N. Ghadge(02 journals) and Dr Kshitija Nadgouda (01 journal) are reviewers of scopus indexed journals.

Special Committee Member

Dr Ajay Kambekar is a BOS member of Mumbai University, SVKMs MPSTME, SBM Polytechnic, DBATU state technical University. He is also an academic Audit Committee Member and Research Committee at DBATU and Amity University (Panvel).

Dr Kambekar, Dr Jeswani and Dr Raskar Phule have organised competitions in SPCE under the aegis of UMA/UBA, Green Club and Sustainability and Green Initiative respectively.

Testing and Consultancy

Most of the teaching faculty such as Dr Murudi, Dr Nagrale, Dr Bage, Dr Kambekar, Dr Gaikwad, Dr Jeswani, Dr Raskar-Phule, Dr. Ghadge, Dr Nadgouda, Prof. Snehjit, Prof. Deshpande and Prof. Asher are involved in testing and consultancy. The special consultancy taken up last year was related to MCGM, MBMC, MPCB, NABARD, PWD and total revenue generated in past year is 1.8 Cr INR.

FDP/NPTEL courses completed

Dr Jeswani, Dr Raskar-Phule and Dr Nadgouda 5 Faculty development programmes such as ATAL and NPTEL courses with total courses completed as 5 for the year.

MoU Signed

MoU were signed with SPSS Dhule and Bureau Veritas for collaboration in research, internships, seminars and workshops.

Student/Alumni Achievements

Mr Ayush Jaiswal (2023-24) has secured 220 rank in Civil Engg. Mr Jagrut Savani of (2018-19) batch and Mr Ram Sawani (2002-03) for a 3 Crore funding in Shark Tank for Savani Heritage. Also Hemant Chavan of 2013-14 CED batch is pioneer in pickleball introduction in India and got a deal in shark tank India worth 1 crore. Apart from its other achievements of present students are as follows:

- No. of students who qualified GATE-2024: 02 students (Third Year), 9 students (BTech)**
- No. of students who got Campus Placement (2024-25) : 22 (BTech) (average package is 6.5 lpa), 7 MTech (CM), 6 MTech (SE) (Avg .Package 7.5 lakhs)**
- GRE, TOEFL and IELTS given and got their institutes : 02 (2024-25) and 05(previous batches)**
- Workshop organised through Civil Engg. Association : 04**
- Expert Talk and Activities organized through green club: 08**
- Site Visit organised through CEA : 03**

Result Analysis for 2023-24

The result analysis for BTech Civil Engineering and MTech Civil Engineering with Construction Management and MTech Civil with Structural Engineering

Year	2024-2025
First Year	%
Second Year	84%
Third Year	79%
B.tech Final Year	100%
M.tech First Year (CM)	100%
M.tech Second Year (CM)	78%
M.tech First Year (SE)	86%
M.tech Second Year (SE)	80%

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MECHANICAL DEPARTMENT REPORT

**Faculty and Student's Achievements Academic Year 2024-25 (till 31st March 2025) [A]
Research & Innovation: Publications, patents, research funds or consultancy projects
RESEARCH PUBLICATIONS-**

1. Thigale, S. P., Jadhav, H. M., Mulani, A. O., Birajadar, G. B., Nagrale, M., & Sardey, M. P. (2024). Internet of things and robotics in transforming healthcare services. *Afr J Biol Sci (S Afr)*, 6(6), 1567-1575.
2. Nagrale, M., Pol, R. S., Birajadar, G. B., Mulani, A. O., Kutubuddin, K., & Liyakat, S. (2024). Internet of robotic things in cardiac surgery: an innovative approach. *African Journal of Biological Sciences*, 6(6), 709-725.
3. Mulani, A. O., Liyakat, K. K. S., Warade, N. S., Patil, A., Kolte, M. T., Kinage, K., ... & Nagrale, M. (2024). IoT Sensors in a Wireless Environment for Healthcare Monitoring: A Framework for Fault Detection. *Journal of Pharmacology and Pharmacotherapeutics*, 0976500X251324735.
4. Dr. Megha Nagrale presented paper in Second International conference on, "Advances in Thermal Systems, Materials and Design Engineering (ATSMDE2024)" during 27th - 28th Dec. 2024 entitled "Experimental investigation of Torsional Fatigue behaviour in pure epoxy resin" at VJTI, Mumbai.
5. Dr. Sachin Vankar presented his work in the Second International conference on, "Advances in Thermal Systems, Materials and Design Engineering (ATSMDE2024)" on "Experimental Investigation of Torsional Fatigue Behavior in Pure Epoxy Resin" during 27th - 28th Dec. 2024.
6. Khan, Y., Singh, D., Kumar, S., Mishra, S., Anjum, A., & Asdaque, P. M. G. (2024). Performance evaluation of the combined helium Brayton cycle and organic Rankine cycles for solar power tower application—A comparative study. *Journal of Renewable and Sustainable Energy*, 16(6).
7. Patil, A., & Ingle, Singh, D (2024). Modeling & optimization of Ti6Al4V turning for sustainable shearing considering rake angle. *Research on Intelligent Manufacturing and Assembly*, 3(1), 118-128.
8. Prof. Haseen Shaikh presented on "Evaluating Tilt Angles and Reflector Types for Enhanced Irradiance in Vertical Bifacial Photovoltaic Systems", in International conference ATSMDE-2025 organized at VJTI Mumbai.
9. Industrial Automation and Data Processing Techniques in IoT-Based Digital Twin Design for Thermal Equipment: A case study, SS Chaudhari, KS Bhole, SB Rane, *Journal of The Institution of Engineers (India): Series C*, 1-17, 2025
10. Influence of micro-textures on wettability and antibacterial behavior of Titanium surfaces against *S. aureus* and *E. coli*: in vitro studies, M Nikam, S Mane, S Jadhav, S Jadhav, S Mastud, K Bhole, T Roy, *International Journal on Interactive Design and Manufacturing (IJIDeM)* 19, 2025
11. A practical approach towards utilisation of the net-shaped micro-structures developed in the lifting plate Hele-Shaw cell for micro-mixing, BS Kale, KS Bhole, D Bhole, S Kolhe, *International Journal on Interactive Design and Manufacturing (IJIDeM)* 19, 2025

12. Controlling Viscous Pattern Formation in a Lifting Plate Hele-Shaw Cell Through Surface Roughness Modulation, S Swami, S Phulmali, M Narayanan, BS Kale, KS Bhole, Journal of The Institution of Engineers (India): Series C, 1-13, 2025
13. Synthesis of Sodium Chloro Fluoride system for generating micro fractal type structures for microfluidic applications, S Valvi, KS Bhole, BS Kale, J Gholave, J Jagtap, International Journal on Interactive Design and Manufacturing (IJIDeM) 18, 2024
14. Machine learning approach to predict viscous fingering in Hele-Shaw cells, AA Lendhe, N Raykar, BS Kale, KS Bhole, International Journal on Interactive Design and Manufacturing (IJIDeM) 18, 2024
15. Computer aided approach for case specific design of fixture for slot milling process, U Pawar, SG Chavan, KS Bhole, M Rathod, D Bhole, International Journal on Interactive Design and Manufacturing (IJIDeM), 2024
16. Geometrical operating parameter's analysis used in flexural cartridges, SM Shinde, K Bhole, M Diwan, International Journal on Interactive Design and Manufacturing (IJIDeM), 2024
17. Reliability improvement of molded case circuit breaker using Design for Six Sigma, SB Rane, SG Bidikar, PR Potdar, International Journal of Quality & Reliability Management 2025
18. Integrated IoT-Blockchain architecture for sustainable green supply chains in agriculture equipment manufacturing industries: a TOPSIS approach, RS Chaudhari, SB Rane, SK Mahajan, RK Phanden, YK Mogal, International Journal of Computer Integrated Manufacturing, 1-32 2025
19. Barriers to adoption of reusable packaging from supply chain perspective: multi criteria decision making analysis and industry 4.0 strategies SB Rane, GJ Abhyankar, MS Kirkire, OPSEARCH, 1-52, 2025
20. Reliability-centered maintenance (RCM) for multistate systems, PR Potdar, SB Rane, System Reliability Analysis, 269-290, 2024
21. An application of IIoT framework in system design, performance monitoring and control for industrial process heater, SS Chaudhari, KS Bhole, S Rane, International Journal on Interactive Design and Manufacturing (IJIDeM), 2024
22. Comparison on conventional and digital technology assisted design methodologies of process heater radiant section, S Chaudhari, KS Bhole, S Rane, International Journal on Interactive Design and Manufacturing (IJIDeM), 2024
23. IoT-enabled crop waste mulching machine for sustainable farming: perspective of circular economy, RS Chaudhari, SB Rane, SK Mahajan, YK Mogal, Engineering Research Express 6 (4), 045550, 2024
24. Investigation of wear characteristics of granite dust & coconut shell ash reinforced aluminum metal matrix composite using design of experiment, YK Mogal, SB Rane, SK Mahajan, RS Chaudhari, Engineering Research Express 6 (3), 035560, 2024
25. Technological integration of lean manufacturing with industry 4.0 toward lean automation: insights from the systematic review and further research directions, P Saraswat, R Agrawal, SB Rane, Benchmarking: An International Journal, 2024

26. Optimization of a shift in the natural frequency of a nitinol-reinforced composite beam, RA Patil, SB Rane, SB Kumbhar, International Journal on Interactive Design and Manufacturing (IJIDeM) 18, 2024
27. Strategies for Green Supply Chain for Agriculture Equipment Manufacturing Industries: Perspective of Blockchain-IoT Integrated Architecture, RS Chaudhari, SB Rane, SK Mahajan, R Agrawal, International Journal of Mathematical, Engineering and Management Sciences 9, 2024
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45. Dr. Rajesh Buktar published his work on "Merging Legacy Equipment with Industrial Internet of Things to Improve Productivity of Auto Component Manufacturing Enterprises – An Industry 4.0 Initiative, Third International Conference On INTELLIGENT ROBOTICS, MECHATRONICS AND AUTOMATION SYSTEMS (IRMAS 2023),
46. Dr. Rajesh Buktar published his work on "RECENT TRENDS OF IOT INTEGRATION IN INDIAN AUTO COMPONENT MANUFACTURING ENTERPRISES", International Conference on Advanced Materials and Technologies for Industry 4.0 (ICAMT 4.0)
47. Dr. Rajesh Buktar published his work on "Implementation of Industry 4.0 and Smart Manufacturing in Indian Manufacturing Industries Using Simulation approach", INTELLIGENT ROBOTICS, MECHATRONICS AND AUTOMATION SYSTEMS (IRMAS 2023, Centre for Automation and School of Mechanical Engineering Vellore Institute of Technology (VIT) Chennai India and Department of Mechanical Engineering, COEP Technological University
48. Dr. Rajesh Buktar published his work on "Implementation of Digital Manufacturing Practices in Manufacturing Industry using Simulation approach in alliance with industry 4.0", Second International Conference on Innovations in Mechanical in Civil engineering, organized by Pimpri Chinchwad College of Engineering Pune, (I-MACE 2023), 18th & 19th August 2023
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51. Published research paper on "Investigating smart manufacturing process implementation in the Indian manufacturing industries using tecnomatix and response surface methodology", Dr. R. B. Buktar, Y. Y. More, International Journal on Interactive Design and Manufacturing (IJIDeM), 15th June 2024.
52. Vinay D Patel, R S Maurya, "Advanced Thermal Characterization of Rubitherm RT35 Melting Dynamics in a Horizontally Configured Energy Storage System with Eccentric Linear Heat Source" International Conference on Advances in Sustainable Solutions for Energy Transitions (ASSET 2025), January 2-4, 2025, School of Energy Science and Engineering, IIT Guwahati.

PATENTS:

1. A patent awarded to Dr. Megha Janbandhu for her work on IOT based agricultural robot for pesticide spraying, Patent Number: 418216-001 (28.05.24).

CONSULTANCIES:

1. Dr. Megha J carried out Design vetting of 20T capacity EOT crane for NSY Karwar Karnataka was completed costing Rs.1,20,000. Project consists of Electrical Drawings, Main Girder and Mechanism calculations and Drawings for EOT Cranes in May 2024.
2. Dr. Kiran Bhole and Dr. B N Bhashme jointly carried out performance testing of Jet pump for Aryan pumps and Enviro System Pvt Ltd in Aug 2024 for a total amount of Rs.41300/-

RESEARCH FUND

1. Dr. B. N. Bhasme has received Prestigious International ASHRAE Program Equipment Grant Titled 'Laboratory Refrigeration Unit with Transparent Evaporator, real time data monitoring and IOT integration' of US \$ 2980.

[B] Knowledge Sharing:

Expert lectures delivered or industry experts invited

1. Dr. Santosh B Rane delivered a talk on Research Ecosystem under NEP2020 at APSIT Thane on 18-01-2025. The programme was organised by University of Mumbai and AP Shah Institute of Technology, Thane.
2. Dr. Santosh B Rane delivered a talk on Cyber-Physical Systems (CPS) and Digital Twins in Manufacturing, 7th Feb 2025. In ISTE-Approved STTP on "Advances in Manufacturing" organized by St. John College of Engineering and Management (SJCEM), Palghar.
3. Prof Kunal Bhavsar organized a webinar by Mr. Robert Bean (USA) on 21st February which was supported by ASHRAE Mumbai Chapter, on the topic 'Fundamentals of ASHRAE STANDARD 55'
4. Expert lecture on Digital Twin by Mr. Rupesh Umtol, Past President of ASHRAE MUMBAI CHAPTER was organised by Prof. Kunal Bhavsar in SPCE on 20th March 2025, where more than 30 students participated.
5. Dr. Rajesh Buktar delivered an expert lecture on "Digital Twin- A Digital Technology for Business Transformation" for Global Management Program (GMP) Batch 18-2023 on September 12,2023 at SPJIMR
6. Dr. Rajesh Buktar delivered an expert lecture on "INDUSTRY 4.0 & DIGITAL TWIN" in ATAL FDP titled "Digital Twin-Based Predictive Maintenance Approach for Industry 4.0 Using Machine Learning Techniques" conducted from 4th Dec. to 9th Dec. 2023 at Veermata Jijabai Technological Institute (VJTI), Mumbai Mechanical Engineering Dept.
7. Dr. Rajesh Buktar delivered an expert lecture on "Role of IOT, AR & VR in Digital marketing" for Global Management Program (GMP) Batch 18-2023 on September 12,2023 at SPJIMR
8. Dr. Rajesh Buktar delivered an expert lecture on "Driving digital transformations with Augmented Reality " for Global Management Program (GMP) Batch 18-2023 on September 12,2023 at SPJIMR
9. Under SPCE ASHRAE, Prof Kunal Bhavsar organized a full day workshop on 'HVAC Fundamentals by ASHRAE'. Expert lecture was delivered by Mr. Vikram Murthy on 26th October 2024 where more than 35 students, and 10 industry persons participated.

[C] Skill Development:

Training programs or workshops conducted/attended

1. Dr. Megha J. attended one day Workshop on Ultrafast Laser Micro-Fabrication 22 November, 2024 at IITB.
2. Dr. Megha J. Attended One-Day Awareness Programme on ORCID and INFLIBNET Services on 25th October 2024 at Visvesvaraya National Institute of Technology (VNIT), Nagpur.
3. Dr. Megha J. Participated in the One-Week Online Faculty Development Programme on EV Technology and Public Charging Station at National Institute of Electronics and Information Technology, Calicut, Kerala from 01st April to 05th April 2024.
4. Dr. Sachin Vankar attended Atel Training and Learning program on from “Data to Impact: AI in Healthcare and Agriculture” from 9/12/2024 to 14/12/2024.
5. Dr. Sachin Vankar attended Atel Training and Learning faculty Development program on “Quality Computing: India Journey Towards Quantum Excellence” on 13/01/2025 to 18/01/2025.
6. Dr. Sachin Vankar attended Atel Training and Learning faculty Development program on “Ethical Hacking and VAPT Mastery: keystones of Cyber Security for Unnat Bharat” on 06/01/2025 to 11/01/2025.
7. Dr. Kiran Bhole attended one week ISTE Approved Short term Training Program (STTP) on “Application of AI-ML-DL in Product Life Cycle Design and Management” on 22/07/2024.
8. Prof. D N Jadhav attended one-day online training program on POSH Act 2013 (Prevention of Sexual Harassment of women at workplace) on Friday, March 21, 2025.
9. Dr. Rajesh Buktar attended ISTE APPROVED Six Days Short Term Training Programme (STTP) on “Exploring Generative AI and Explainable AI: Concepts to Applications” conducted during 24 June to 29 June 2024, organized by the Department of Artificial Intelligence & Machine Learning & Artificial Intelligence & Data Science, Thakur college of engineering & technology, Autonomous College Affiliated to University of Mumbai
10. Dr. Rajesh Buktar participated in one day Faculty Knowledge Sharing Program on the theme “Information Technology in Education” at ICFAI Business School , Hiranandani Gardens, Mumbai on 1st August 2024

[D] Industry Engagement: Industrial visits organized or participated in

1. Prof. Kunal Bhavsar and Dr. B. N. Bhasme took around 25 students to an Industrial visit to Blue Star Wada Plant under ASHRAE SPCE student chapter on 16th May 2024.
2. Industrial Visit at Sigma Packaging Solutions, Vasai on 27th and 28th of September 2024 under MESA accompanied by Dr. Megha J & Dr. Sachin Vankar.
3. Industrial Visit organised at BARC, Anushaktinagar, Mumbai to Dhruva Reactor on 02.03.2025 under MESA accompanied by faculty Dr. Megha J.
4. Industrial visit to Ambetronics Pvt Ltd, Andheri East was organised for ASHRAE SPCE student members on 8th March 2025, where 25 students and Prof. Kunal Bhavsar attended the visit.
5. Dr. S B Rane and Prof. D N Jadhav organized an Industrial Visit to ' Reliance metro One ' at Four Banglow Andheri west on 18/03/2025 under IIIE student chapter

[E] Other Achievements:

Any notable contributions worth mentioning

- 1. Dr. Rajesh Buktar worked as reviewer for "Journal of industrial information integration", Elsevier, QUARTILE-1 (Q-1 JOURNAL) by contributing review for two journal papers.**
- 2. Prof. B N Bhasme contributed to the establishment of 33kWp Rooftop Solar Power Plant and executed this project as capacity of Chairman.**
- 3. Prof. B N Bhasme contributed to establish Green lab as a seed for renewable energy laboratory at institute level.**
- 4. Prof. Sharad Valvi worked as a translator for the NPTEL course "Energy Conservation and Waste Heat Recovery" (Course Code: 112105221) offered by Indian Institute of Technology, Kharagpur. The translation aimed to enhance accessibility and understanding for a wider audience.**
- 5. Dr. Santosh B Rane took lead to establish the Blue Star Centre of Excellence Laboratory in the month of February 2025 in alignment with Govt of India's initiatives.**
- 6. Worked as reviewer for second International Conference on Advances in Thermal Systems, Materials and Design Engineering (ATSMDE-2024) on 27 th & 28th December 2024 by Department of Mechanical Engineering VJTI, Mumbai.**
- 7. MESA arranged Blood Donation Drive on 28.09.2024 in which 77 students donated blood under MESA.**
- 8. Dr. Kiran Bhole worked as Session Chair at International Conference on Technologies for Energy, Agriculture and Healthcare (ICTEAH 2024) on 15th&16th April 2024.**

Student Achievement and Activities:

- 1. SPCE WAVE Team-Shourya got Overall rank-1 in regular category and AIR-1 for the best technical report in a Drone Development Challenge 2024 organized by SAEINDIA Southern Section on 29 -31 August 2024.**
- 2. The SPCE Racing Electric team comprising 58 students participated in Formula Bharat 2025 which held at Kari Motor Speedway, Coimbatore. January 22 - 27, 2025. Team scored overall 5th rank with 4th place in the Business Plan event, 6th place in the Cost & Manufacturing event and 7th in the Engineering Design event.**
- 3. Mr. Bhiva Mohan Jethe received best paper presentation award at 11th international and 51st national conference on Fluid Mechanics and Fluid Power (FMFP-2024) conference held at AMU during 21-23 December 2024, for their work on 'Effect of surface roughness and viscosity on formation of fractals'.**
- 4. MESA organized a blood donation camp on 30th October 2024 where more than 70 number of students and faculties participated.**
- 5. A five days faculty development program by MED on ' Shape Memory Alloy and Composite Materials' in association with SEAINDIA Collegiate club and SEAINDIA Western section chapter was organized on the online mode during 4-8 February 2025.**
- 6. Mr. Shreyas Waideshkar received prestigious SAEINDIA Foundation Section Award along with an scholarship amount of Rs.4000/- under the Western Section in the month of January 2025.**
- 7. Mr. Pratik Burkul received Ramesh Suri award for the best innovation in technology in November 2024 under SEAINDIA foundation award-2023-24 program- Western Section**
- 8. Mr. Pratik Burkul received Mobility startup of the year award for the best innovation in technology in November 2024 under SEAINDIA foundation award-2023-24 program- Western Section**

8. Final year best project award by the department of mechanical engineering given to the winners under the following category

- **Mechanical Marvel Platinum Thesis Excellence**

Mr. Narayanan Madan Lekshmi

Mr. Shashank Phulmali

Mr. Swami Suraj Narendra

Title of the project: 'Investigation on effect of surface roughness of substrate and fluid properties on formation of viscous fingering.'

- **Mechanical Marvel Gold Thesis Achievement**

Mr. Gunjal Harshal Bhaurao

Mr. Sarthak Sanjay Gutte

Mr. Todankar Harsh Sachin

Title of the project: 'Cooling system for electric vehicles.'

- **Mechanical Marvel Silver Thesis Distinction**

Mr. Ade yash sunil

Mr. Bhamare siddhesh sunil

Mr. More anisha sanjay

Title of the project: 'Design and analysis of passive mechanical anti roll bar for FSAF car and modeling of electro mechanical anti roll bar.'

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ELECTRICAL DEPARTMENT REPORT

Department of Electrical Engineering was established in 1962 with undergraduate programme in Electrical Engineering. In the academic year 2014-2015 department started the post graduate programme in Power Electronics and Power System. In the year 2018-2019 Department received approval of Ph. D. programme by University of Mumbai. The intake for these programmes is 60, 18 and 35 respectively. The department has an excellent infrastructure. The strength of Department of Electrical Engineering is its faculty, students, supporting staff and alumni. The department has expertise in the field of power system, electrical machines and drives, electronics, communication engineering and control system. Among the faculty, 5 faculty members have completed doctorate from IIT Bombay, one from IIT Roorkee and presently 4 faculties are pursuing PhD from SPCE.

Vision

Department of Electrical Engineering aspires to produce socially responsible and dedicated electrical engineer by providing conceptual learning that enhances research based activities.

Mission

To educate through classroom teaching along with intensive practical activities and promote Academic excellence with the help of expertise in different fields of Electrical Engineering from industries and academic institutes. To promote innovative ideas through seminars and projects. To bring awareness of social responsibilities as an Electrical Engineer This report presents academic activities of Electrical Engineering Department April 2024-to March 2025. All activities are planned and executed considering overall development of students.

Academic Activities:

Curriculum: The department curriculum is in alignment with AICTE model curriculum and NEP2020. Regulation R-23 is designed as per the guidelines form the Director of Technical Education, Maharashtra state, which has features of NEP2020. As per R23, students will get minor degree in the interdisciplinary specialization and will have compulsory internship in the final year. Department offers variety of courses under Professional and Open Electives. The professional electives cover the advanced courses of Electrical Engineering whereas open electives cover interdisciplinary courses. Department has history of an excellent placement and this curriculum will definitely further improve graduate employability. The elective courses are useful for the students continuing higher studies. To get conceptual clarity, department runs two skill based courses, namely, Electrical Simulation laboratory and Electronics design Laboratory. Apart from regular experiments many of our laboratory courses require implementation of mini projects for completion of courses, which gives hands on experience to students and help them to complete final year projects.

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33 kW Rooftop Solar installation:

Dr. Swati Lavand, Prof. Vishal Dake and Prof. Rahul Chavan along with faculty members of mechanical department and SPIT successfully completed installation of three 11 kW solar panels on the SPCE rooftop. Since this facility has various tracker systems, it is used not only to generate electricity through net-metering but also as a research facility. Presently two PhD research scholars and many UG students are using this facility for their projects.

Industry Institute Interaction:

Memorandum of understanding was continued with WESTERN REGIONAL LOAD DESPATCH CENTRE (WRLDC), M/S POWER SYSTEM OPERATION CORPORATION LIMITED (Power Grid) to promote industry institute interaction.

Following events were carried out under these MOUs-

- 1) Industry visits for the final year students of the course Smart Grid.
- 2) Third year students did intern-ship during vacation and few of the final year students are doing final year project at WRLDC.

Department signed MoUs with following industries and academic institutes-

- 1) Edunnovate Technologies Private Limited (TIS)
- 2) Tata Power Skill Development Institute
- 3) VJTI, Mumbai Internships: Many of the students did intern-ship in industries like- MSEB, TATA Motors, TVS, Western Railways, BEST, WRLDC etc.

Industry experts were involved in the development and revision of curriculum. Few of the students completed their internship in reputed academic institutes like IIT Bombay, SPIT.

- 1) Dr. Kinhekar arranged Industrial visit to WRLDC for final year electrical students in April 2024 and February 2025.
- 2) Visit Tata Power Skill Development Institute was organized for third year students in February 2025 by Dr. Swati Lavand.
- 3) Third year and final year students visited Khopoli Hydro powerplant, Tata Power in April 2024. Prof. Vishal Dake coordinated this visit.

Department faculty Dr. B. B. Pimple, Prof. N. G. Bhitre, Prof. Rahul Chavan and Prof. Vishal Dake participated in Third Party verification assignments with Vasai/Virar Municipal Corporation and Bhiwandi & Ambernath Municipal Corporation. A guest lecture on “Gate driver circuit-Practical Implementation” by Dr. Rajendra Sawant (Prof. at SPIT), was arranged for third year students by Prof. Prajakta Joshi. Few laboratory sessions in Signals and Systems, Control System, Advanced Electrical Drives, Power System, Electric Vehicle and Design of Control Systems were conducted by research scholars pursuing Ph. D. from IIT Bombay which helped students to learn hardware experiments and new simulation techniques.

Faculty Achievements:

- Dr. Sumbul Abidi received PhD. Degree from IIT Bombay.
- Dr. B. B. Pimple is member Board of Studies of Electrical, University of Mumbai and BoS, VJTI, Mumbai.
- Prof. Matilda and Prof. Rahul Chavan got selected for PhD in the department of Electrical Engineering, SPCE.
- Dr. Pimple was invited as an expert to deliver a talk on “Grid interfacing converters, principle of operation and topologies” at Power-Grid India.
- A talk on “Overview and Architecture of Vehicular Mechanics” was delivered by Dr. Pimple at JSPM's BSIT, Pune.
- Dr. Pimple is invited as an expert to conduct a course on “Electric Vehicle” at VJTI Mumbai.

Students Achievements:

Electrical Engineering Students Association (EESA) is active throughout the year. The students conducted and participated in many technical and extra-curricular activities under the guidance of department faculty coordinators Dr. Sumbul Abidi, Dr. Swati Lavand and Prof. Rahul Chavan.

The following activities are conducted by EESA-

- 1) Calculator Workshop
- 2) Auto-cad Workshop
- 3) Electronics Lab equipment Workshop
- 4) Electrical machines lab introductory workshop
- 5) Magic by logic

6) Alumni Talk session

7) Trek to Tikona Fort , Lonavla

8) Blood Donation Campaign □

Mr. Atharva Funde from final year B. Tech. Electrical received "Bank of Baroda Achievers' Awards" for AY 2024-25.

Ms. Divya Dhas and Ms. Chaitrali Marathe received Technip Energies India Scholarship for the AY2024-25.

Mr. Aditya Kumbhar, part of Maha NCC which received runner-up at All India Vayu Sainik Camp.

Ms. Khadija, Mr. Rishikesh and Ms. Shrushti final year Project selected for 19th Aavishkar: Inter-Collegiate / Institute / Department Research Convention (Final Round).

SPriha Team-SPCE and SPIT was selected for CDR round, IN-SPACE National Can Sat.

Mr. Anirudha Nalli is one of the members of this team.

Ms. Khadija presented a research contribution titled "Smart SCADA Analyzer for Effective Grid Management" in IEEE IES research conclave held at SPIT on 23 Nov 2024.

Ms. Rishika Goyal won runner-up position in women's doubles in "SMASH MASTERS 2.0", district badminton tournament held in Oct 2024.

Additionally, she was the runner-up in both women's singles and women's doubles at the "PSZ-1st Badminton Tournament", a district badminton tournament held in December 2024.

Many of the students from third and final year participated in IEEE IES day Research Conclave at SPIT held in Nov 2024.

A total of 8 students qualified in the GATE 2025 exam. □ PhD students have published papers in various international conferences.

Department students are participating in various activities/ competitions via ROBOCON, WAVE, SPCE Racing teams, Rotaract Club, SPSGI.

SPCE WAVE Team Shourya has achieved overall rank AIR 1 and best design report in SAEISS DDC 2024-2025, and Team Voyagers from SPCE WAVE in 2025 participated in IN-SPACE National Rocketry successfully selected for CDR round and Mr. Ayushya Maurya is one of the members of this team.

The IEEE student chapter organized a session on Programming

Publications: Department faculty and students have published research article in international conferences/ Journal. Following is a list of publications-

1) Badrinarayan B Pimple, Surendra Babu, "Understanding rotor flux behaviour of a multi-megawatt DFIG in wind energy conversion", International Journal of Power Electronics, Vol. 19, No. 2, pp152-166, 2024.

2) Prathmesh Jadhav, Badrinarayan B. Pimple, "Decoupled Power flow Management In TAB-IBDC Converter for HESS Application in EV System" International Journal of Power Electronics, 1, pp1-21, 2024.

- 3) Sumbul Hasan, P.V. Navalkar, Gopal Gajjar, S.A. Soman, “Frequency regulation of future AC grid using storage”, Journal of Energy Storage, Volume 98, Part B, 2024, 113152.
- 4) Wankhade S. D. and Patil B. R., “Lithium-ion battery: Battery sizing with charge scheduling for load levelling, ramp rate control and peak shaving using metaheuristic algorithms”, Journal of Energy Storage, vol. 86, Art. no. 111223, 2024. doi:10.1016/j.est.2024.111223.
- 5) Wankhade Sushama & Patil B. (2024). Technical Aspects in the Deployment of Energy Storage System in Microgrid: A Review. Industrial Engineering Journal. 17. 9-15.
- 6) Wankhade Sushama & Patil Babasaheb. (2024). Machine Learning Based Electrical Load Prediction Using Regression Learners: A Performance Evaluation. 1595-1601. 10.1109/ICoICI62503.2024.10696398.

Alumni Activity:

Alumni association is actively involved in the development of Robotics and Embedded Lab. Special thanks to Mr. Shashi Banka, Ms. Jui and Mr. Bhaskar Bhat for continuous support in the development of lab infrastructure. An Alumni Talk on “Navigating Career Challenges and Life Lessons” by Mr. Suved Jaywant, Teaching assistant at McGill University, was arranged by EESA in January 2025.

Laboratory Development:

33 kWp Rooftop Solar PV with tracker systems and a standalone system with battery backup was successfully installed as a part of collaborative research project, for SPCE and SPIT. Procurement of Robotics and Embedded lab is initiated with the help of alumni. Placements: Total of 61 students from Electrical department were placed in AY2023-24 in reputed companies like TOYO, L&T, Bajaj electric, TATA Power, TATA Motors, Schneider Electrical, TCS, Siemens, TVS motors, Technip Energies, Mahanagar Gas. Eight of the students joined for higher education in reputed institutes like IIT Bombay, NIT, CDAC, Columbia University, UC Riverside, Johns Hopkins and Clemson University.

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FIRST YEAR DEPARTMENT REPORT

The first year department helps students learn basic courses, which lays the foundation for them to study the professional courses in their engineering program. The department also helps the student learn and enhance their communication and interpersonal skills and develop a fine overall personality. As a result, the students are better prepared to face the interviews for on campus as well as off-campus placements and also perform well in their professional lives. Thus, the department creates a bridge between the basic sciences, humanities and engineering, a prerequisite for a good engineering programme.

The department has well qualified and experienced faculty and also well-equipped, state-of-the-art laboratories. The laboratories are upgraded as per the needs and curriculum. The department conducts an orientation programme and an induction programme of 21 days for the newly admitted F.Y.B.Tech students, where the students are exposed to various courses and also introduced to soft skills and the art of living. They are introduced to yoga and different outdoor and indoor sports for their overall physical and mental growth. The department (through the institute TPO) also conducts diagnostic tests for F.Y.B. Tech students, which helps the students know their strengths and weaknesses so that they can work to overcome those weaknesses. Mentor faculty and in-house counsellors are available to help the students if they are facing any problems.

Dr. Shyamlee Solnaki is the Head of the Department of First year Engineering Department since 2nd May, 2022.

STUDENT COUNCIL



FACULTY ADVISOR

- Dr. Shyamlee D. Solanki

GENERAL SECRETARY

- Ms. Riva Mayekar

NETWORKING & OUTREACH SECRETARY

- Mr. Arya Bagdee

SPORTS SECRETARY

- Mr. Siddhatej Desai
- Ms. Ananya Ranade
- Mr. Om Jaiswal

SOCIAL WORK SECRETARY

- Ms. Saumya Sharma

TECHNICAL SECRETARY

- Mr. Aarya Kulkarni
- Mr. Soham Jadhav
- Ms. Riya Ekare

MAGAZINE SECRETARY

- Mr. Digvijay Londhe
- Ms. Dhanshree Chavan

CREATIVE HEAD

- Ms. Mitali More
- Ms. Sushmita Korgaonkar

LADIES REPRESENTATIVE

- Ms. Shravani Kolekar
- Ms. Shreya Pattiwar

CULTURAL SECRETARY

- Mr. Ayush Rathod
- Ms. Simran Shetke

FINANCE SECRETARY

- Mr. Sachin Shah
- Mr. Kaushal Suryawanshi

LITERARY SECRETARY

- Ms. Harshika Mhapsekar
- Mr. Aditya Nalavade

STUDENT WELFARE COMMITTEE



Dr. Shyamlee D. Solanki - Chairperson

Dr. Jayram Gholave

Dr. Anil N. Ghadge

Dr. Nandakishor Kinhekar

Prof. Megha Janbandhu

Mr. Kishor Joshi

Mr. Darshan C. Nawale

GENERAL SECRETARY'S ADDRESS.

Reflecting on this past year, my heart is filled with gratitude, pride, and immense joy. From my first interview for General Secretary in July 2024, to this moment, the journey has been overwhelming and enriching. We began with the challenging task of drafting the Annual Budget, but as events unfolded, we found our rhythm. Our first milestone was Independence Day 2024, marked by musical performances, drama, poetry, and patriotic songs. Teachers' Day followed, with a unique awards ceremony and tokens of appreciation. Then came the First-Year Induction Programme, a two-week initiative to ensure our newest members felt welcomed, covering personal development, leadership, technical skills, and cultural activities. Intellectual rigor shone through in the Annual Debate, while unfiltered joy filled the air at Garba Night. The Clothes Donation Drive before Diwali reminded us of the power of giving. The freshers' event, Prarambh, brought the first-years together in a spirited War of Branches. A defining moment arrived in November with the NAAC Accreditation Visit, where we showcased our institution's excellence. As future leaders, we celebrated Republic Day with cultural performances, reinforcing our role as changemakers. Our Stem Cell Donor Registration Drive, in partnership with MDRI, saw 184 new registrations, proving small efforts create life-changing possibilities. Women's Day saw impactful discussions on Sex Education and a Self-Defence workshop, reinforcing our commitment to inclusivity. Sports remained a priority. SPIRIT '25, held across two weekends in March, witnessed intense competition in 10 sports, highlighting discipline, teamwork, and resilience. Cultural Week saw students express themselves through themed days like Saree & Tie Day, Gang Day, Pajama Day, Traditional Day, and Character Day, making campus life vibrant and memorable. Then came SPHINX '25, the pinnacle of our journey—a fusion of culture and technology. Over three electrifying days (Feb 27 - March 1, 2025), we hosted cutting-edge technical events, breathtaking cultural performances, and unforgettable moments of teamwork and creativity. SPHINX Concert Night saw sensational performances by Arjun Tanwar, Maahi, and 99side, leaving the audience spellbound. None of this would have been possible without the unwavering dedication of our Student Council, faculty, and every student who contributed and celebrated with us. A heartfelt thank you to Dr. Shyamlee Solanki, Chairperson of the Student Welfare Committee, for her constant guidance and belief in us. None of the work we have done would have been possible without her and her support. As we turn this page, we carry forward invaluable lessons and cherished memories. Here's to new challenges, victories, and defining moments. Thank you for being part of this incredible journey.

~Riva Mayekar

CULTURAL SECRETARY'S ADDRESS.

As we reflect on this remarkable year, we take immense pride in the vibrant and dynamic cultural landscape we have built. Our journey was marked by moments of celebration, tradition, and shared experiences that brought our college together like never before.

From the very beginning, we set the tone with Independence Day, Teachers' Day, First-Year Induction, Garba Night, PRARAMBH, Republic Day, Cultural Week, and Pre-SPHINX, each event adding its unique essence to our cultural fabric.

This year, for the first time, we made Teachers' Day even more special by organizing fun games and unique fun awards for our faculty members. It was our way of expressing gratitude and appreciation for their relentless dedication and support. A major highlight of the year was the First-Year Induction, where we welcomed the newcomers with interactive sessions, inspirational talks, engaging games like Musical Chairs, a Spandan Jamming session, and a guided Campus Tour. This helped them feel at home and integrate seamlessly into campus life. To further encourage their participation, we introduced PRARAMBH—an intra-college competition exclusively for first-years, featuring a Dance Competition and the much-anticipated Mr. & Mrs. PRARAMBH contest.

We also introduced Cultural Week, a vibrant five-day celebration featuring Traditional Day, Tie & Saree Day, Pajama Day, Gang Day, and Character Day. This initiative brought students together in a lively display of creativity, unity, and campus spirit. And then came the grandest spectacle of them all—SPHINX. Our annual techno-cultural fest was nothing short of the actual definition of GRAND. From its electrifying atmosphere to an unforgettable lineup of events—including Vogue, Swaranjali, Step Up, IPL Auction, Rhyme and Reason, Auto Expo, Stand-up Comedy, Pronite, War of Bands, Roadies, Sparsh Club Drama, and Spandan Band Performance—SPHINX set new standards of excellence.

A heartfelt thanks to all the cultural clubs that played a pivotal role in making this year a success—SPARSH (Drama Club), SPLASH (Dance Club), SPANDAN (Music Club), and SPARKLE (Fashion Club). Their dedication and talent have been the backbone of our cultural excellence. None of this would have been possible without the unwavering support of our fellow Council members, core committee, organizers, and volunteers, whose relentless dedication turned our vision into reality. A special thanks to Dr. Shyamlee Solanki, Chairperson of the Student Welfare Committee, our faculty, supporting staff, and our Principal for their invaluable guidance and encouragement. This year, we have done what no one else has done before. We didn't just organize events; we built a legacy that sets a new benchmark. We were fearless in our approach, taking risks that others hesitated to because, after all—where there is risk, there is passion. From redefining cultural experiences to pushing the boundaries of what's possible, we proved that leadership is about breaking limits, not just following traditions. To the next team, we say—dare to dream bigger, take bolder risks, and carry this legacy forward. The stage is yours; make it even more legendary.

~ Ayush Rathod

~Simran Shetke

TECHNICAL SECRETARY'S ADDRESS

As we reflect on an eventful year, we, the Technical Secretaries, take immense pride in the progress and innovation that have shaped the technical landscape of our esteemed institution. With the unwavering support and collaboration of our departmental committees—CEA, EESA, and MESA—we have fostered an environment of learning, creativity, and hands-on experience. Through a series of engaging workshops, seminars, and interactive sessions, we have worked towards equipping students with the knowledge and skills required to thrive in the ever-evolving world of engineering and technology.

Our technical clubs—SPCE Racing, S.P.A.R.K., and W.A.V.E.—have once again demonstrated excellence, achieving remarkable success on national platforms. Their commitment and perseverance serve as a testament to the spirit of teamwork and innovation that defines our college.

****SPHINX****, our annual techno-cultural fest, continues to be a dynamic platform for aspiring engineers to showcase their talents. This year, we introduced ***Shark Tank***, a new and highly successful event where students presented their hypothetical business plans, demonstrating creativity, problem-solving, and entrepreneurial vision. The event encouraged participants to think beyond traditional engineering applications and explore innovative solutions with real-world potential. Alongside this, we continued with our flagship events, including RoboSumo, robo soccer, CAD modeling, concrete design, electrical circuit design, and quiz competitions. Each of these contests challenged participants to apply their technical expertise in practical scenarios, enhancing their problem-solving and critical-thinking abilities.

As we conclude this journey, we extend our heartfelt gratitude to everyone who contributed to making this year a resounding success. A special thanks to the core committee, organizers, and volunteers whose dedication and relentless efforts made our initiatives both impactful and memorable. We also express our sincere appreciation to Dr. Shyamlee Solanki, Chairperson of the Student Welfare Committee, our faculty, supporting staff, and our Principal for their invaluable guidance and encouragement.

As we pass the baton to the next Student Council, we are confident that they will continue to build on these achievements and take our college to even greater heights. Thank you all for your unwavering support and enthusiasm in driving innovation forward.

~Aarya Kulkarni

~Riya Ekare

~Soham Jadhav

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~Aarya Kulkarni

~Riya Ekare

~Soham Jadhav

SPORTS SECRETARY'S ADDRESS.

Serving as Sports Secretaries has been a privilege, allowing us to contribute to our college community and witness the remarkable progress in sports over the past year. This journey has been a testament to our unwavering commitment and passion for athletics.

We take immense pride in celebrating the outstanding achievements of our college teams, who actively competed in the Mumbai University sports events and excelled in intercollegiate tournaments across multiple disciplines. Notable victories were secured in table tennis, athletics, basketball, football, cricket, and badminton.

A defining moment of our tenure was the successful organization of SPIRIT 2025, our flagship sports event, which saw unprecedented participation and enthusiasm from both players and spectators. We extend our heartfelt gratitude to the dedicated Sports Heads and the entire SPIRIT team for their relentless efforts in making this event a resounding success.

Throughout our tenure, we have been dedicated to preserving the spirit of sportsmanship while cultivating an environment of inclusivity and excellence within our college. Seeing the enthusiasm and engagement of our fellow students has been truly rewarding, reaffirming the significant role sports plays in enriching our college experience. The passion and dedication of our athletes continue to inspire us, and we are confident that this legacy will thrive in the years to come.

~Sidhatej Desai

~Ananya Ranade

~ Om Jaiswal

Merit list

Name of the award	PRIZE AWARDED
KULPATI'S GOLD MEDAL	For securing First Rank in First Attempt amongst students of this college in following Programs. B.TECH. (CIVIL) ESHA JAGDISH BARAPATRE B.TECH. (MECHANICAL) KHASBAGE ANSHUMAN ANIL B.TECH. (ELECTRICAL) CHAVAN NEHA SATISH
KULPATI'S SILVER MEDAL	For securing Second Rank in First Attempt amongst students of this college in following Programs. B.TECH. (CIVIL) KADAM HARSH SANJAY B.TECH. (MECHANICAL) NARAYANAN MADAN LEKSHMI B.TECH. (ELECTRICAL) SHAH NIDHI VIVEK
SHRI PRUTUVISH NARAYANDAS KILLAWALLA PRIZE	For securing highest scores in first attempt amongst students of this college at F.Y B.TECH. (ELECTRICAL) Examination held in previous academic year and joined in S.Y B.TECH. (ELECTRICAL) SARKAR APARNA CHANDAN For securing highest scores in first attempt amongst students of this college at S.Y B.TECH. (ELECTRICAL) Examination held in previous academic year and joined in T.Y B.TECH. ELECTRICAL VISHWAKARMA DITI DIWAKAR For securing highest scores in first attempt amongst students of this college at T.Y B.TECH. (ELECTRICAL) Examination held in previous academic year and joined in B.TECH. (ELECTRICAL) ATHARVA SUNIL FUNDE For securing highest scores in first attempt amongst students of this college at B.TECH. (ELECTRICAL) Examination held in previous academic year CHAVAN NEHA SATISH
SHRIPAD RAO DUBHASHI PRIZE	For securing highest scores amongst our successful college students in the subject of "Building Drawing with CAD" in S.Y B.TECH. (CIVIL) Sem. III examination held in previous academic ear PANDAV SHAMKUMAR KISAN

Merit list

SMT. AHILYABHAI TEMBE PRIZE	For standing first in the subject of "Design of RCC Elements" in T.Y.B.TECH. (CIVIL) Sem. VI examination held in previous academic year HARSH MOHAN SRIVASTAVA
SHRI R. M. JOSHI PRIZE	Has been awarded Prof. R. M. Joshi prize for securing highest scores in Sem. VII and Sem. VIII (CIVIL) taken together and passing separately during previous academic year ESHA JAGDISH BARAPATRE
Dr. PRANLALA PATEL FOUNDATION PRIZE	Has been awarded Dr. PRANLALA PATEL prize for securing highest CPI in F.Y.B.TECH. (MECHANICAL) examination at the first attempt during the previous academic year AKHIL SHYAM PILLAI Has been awarded Dr. PRANLALA PATEL prize for securing highest CPI in S.Y.B.TECH. (MECHANICAL) examination at the first attempt during the previous academic year VISHWAKARMA NIKHIL PRABHAKAR Has been awarded Dr. PRANLALA PATEL prize for securing highest CPI in T.Y.B.TECH. (MECHANICAL) examination at the first attempt during the previous academic year BHUSARI SANKET LAHANU
SHRI JAYANTI SATYANARAYNA MEMORIAL PRIZE	For securing highest CPI in the subject of "Structural Engineering " Sem. V at the T.Y. B.TECH. (CIVIL) examination held in previous academic year SHEKHAR DIGVIJAY DILIPKUMAR
SHRI MARATHE MEMORIAL PRIZE	For securing highest CPI in the subject of "ENGINEERING MECHANICS" Sem. I at the F.Y.B.TECH. examination held in previous academic year MECHANICAL ENGG. AKHIL SHYAM PILLAI
SHRI MARATHE MEMORIAL PRIZE	For securing highest CPI in the subject of "Mechanics of Materials" Sem. III at the S.Y.B.TECH. (CIVIL) examination held in previous academic year SIMRAN SACHIN SHETKE

Merit list

SHRI MARATHE MEMORIAL PRIZE	For securing highest CPI in the subject of "STRENGTH OF MATERIALS" Sem. 111 at the S.Y.B.TECH. (MECHANICAL) examination held in previous academic year SANSKAR RAVIKANT GOTMARE
COMMUNICATION SKILL PRIZE AWARDED BY STRUCTURAL DEPARTMENT FOR F.Y.B.TECH.	FOR GETTING MAX. SCORES IN C.S. SUBJECT NEELANJANA MANDAL
INDIAN WATER WORK ASSOCIATION (BOMBAY CENTRE) CASH PRIZE	For securing highest scores in SUBJECT "Environmental Engineering-II" T.Y.B.TECH. (CIVIL) sem. VI Examination held in previous academic year HARSH MOHAN SRIVASTAVA
DR. G.A.MHASKAR & DR. B.M.JOSHI PRIZE	For securing highest scores in SUBJECT "Environmental Engineering-II" T.Y.B.TECH. (CIVIL) Sem. VI Examination held in previous academic year HARSH MOHAN SRIVASTAVA
DR- G.A.MHASKAR & DR. B.M.JOSHI PRIZE	For securing 1st rank in B.TECH. (ELECTRICAL) Class CHAVA.N NEHA SATISH
MRS. VIJAYA SURESH BHOLE AWARAD OF MERIT	Mrs. Vijaya Suresh Bhole Awarded of Merit to first rank holder of B. Tech Mechanical En •neering)Program to KHASBAGE ANSHUMAN ANIL
MEENA AND DINANATH RAIKAR AWARD FOR EXCELLENCE	Meena and Dinanath Raikar Award for Excellence ranked first in the final 4th year (Mechanical Engineering) Program to KHASBAGE ANSHUMAN ANIL
SHRI SHANKAR BHANDARKAR	For securing highest scores amongst our successful college student in the subject of 'Control System Design' in T.Y.B.Tech. semester VI examination held in previous academic year RAJDEEP BANERJEE

Merit list

SMT PRAMODINI BHANDARKAR	For securing highest scores amongst our successful college student in the subject of 'Digital Control Design' in B.Tech. semester VII examination held in previous academic year JAGETIYA KHUSHI DILIP
LATE SHRI NAMDEO B. DAHATONDE MEMORIAL AWARD	For securing highest Scores in the subject of "Digital Signal Processing" at T.Y. B.TECH. Sem V examination ATHARVA SUNIL FUNDE
MERIT PRIZE (OR BOOKS) AWARDED STRUCTURAL ENGINEERING DEPARTMENT TO THE STUDENTS OBTAINING THE FIRST CLASS AND GETTING HIGHEST NUMBERS OF MARKS IN ALL STRUCTURAL ENGINEERING SUBJECTS	Mechanics of Materials SIMRAN SACHIN SHETKE
MERIT PRIZE ON THE BASIS OF MERIT IIN THE PRECEDING EXAMINATION	F.Y.B.TECH. (Electrical) SARKAR APARNA CHANDAN F.Y.B.TECH. (Civil) KANDADE NIDHI AMOL F.Y.B.TECH. (Mechanical) AKHIL SHYAM PILLAI S.Y.B.TECH. (Electrical)VISHWAKARMA DITI DIWAKAR S.Y.B.TECH. (Civil)PRANAV MAHENDRA BHANDARI S.Y.B.TECH. (Mechanical) VISHWAKARMA NIKHIL PRABHAKAR

Merit list

MERIT PRIZE ON THE BASIS OF MERIT IN THE PRECEDING EXAMINATION	T Y.B.TECH. (Electrical) ATHARVA SUNIL FUNDE T Y.B.TECH. (Civil) SHEKHAR DIGVIJAY DILIPKUMAR T Y.B.TECH. (Mechanical) BHUSARI SANKET LAHANU B.TECH. (Electrical) CHAVAN NEHA SATISH B.TECH. (Civil) ESHA JAGDISH BARAPATRE B.TECH. (Mechanical) KHASBAGE ANSHUMAN ANIL
GOLD MEDAL FOR HIGHEST CPI	M.TECH. (CIVIL) - CONSTRUCTION MANAGEMENTMORAJKAR AMISHA ANKUSH
MS SHARADA GAVADE AWARD OF MERIT	MS. SHARADA GAVADE AWARD OF MERIT AWARDED TO FIRST RANK HOLDER OF B.TECH (CIVIL ENGINEERING) PROGRAM TO ESHA JAGDISH BARAPATRE

PLACEMENT REPORT

Company Name	Mechanical	Electrical	Civil
• Schneider Electric (GET)	1	1	0
• Technip Energies	0	3	3
• Burns & McDonnell India	3	0	0
• Maire Technimont	2	1	0
• Innomotics	0	3	0
• Innovation Story	1	0	0
• Larsen & Toubro (L&T)	0	1	3
• Shapoorji Pallonji	2	0	1
• ICICI Bank	1	2	0
• TATA Power	1	10	2
• TOYO Engineering	2	1	1
• Worley	0	0	2
• Blue Star	4	2	0
• AXIS Bank	2	0	0
• HUL	0	1	0
• Rustonjee	0	2	1
• Panasonic	1	0	0
• Mahanagar Gas	3	2	0
• Voltas	1	1	0
• Lodha	0	3	2
• Oberoi Realty Limited	1	5	4
• Thyssenkrup Uhde India Pvt Ltd	2	2	0
• Jio World Centre	3	1	0
• Raychem RPG	2	1	0
• Sekura	0	2	0
• Kalpataru Projects	0	4	2
• Nirmeet Enterprises	0	1	0
• Dr. Kelkar Design Pvt Ltd	0	0	1
• Athithy Construction	0	0	1
• RK control & Instruments Pvt. Ltd	6	0	0
• Reliance Industries	2	1	0
TOTAL	40	50	23
• Higher Education Aspirants	14	11	17

TRAINING & PLACEMENT OFFICE TEAM



Training & Placement Officer :

Dr.Rahul T.Dahatonde

Mechanical Engineering Department

- Shreyas Waindeshkar
- Sanket Bhusari
- Amisha Gaud
- Shreya Bhatt

Electrical Engineering Department

- Gajanan Chavan
- Rohini Pawar
- Vighnesh Jondhale
- Manish Dhande
- Manav Singh

Civil Engineering Department

- Vaibhav Chiware
- Sarthak Rathod
- Urvashi Sheth
- Sejal Khade

Student's Achievements

Achievement :		
Nishant santosh kharat	TY Civil	Won second prize in National level competition " Geo-Vishleshana 2024" in field of Geotechnical Engineering organised by Indian Geotechnical Society.
Tejas Vinod Ware	TY Electrical	Published two international research papers : 1. Optimizing EV Performance through Supercapacitor-Battery integration. 2. REVOLUTIONARY INNOVATION IN SOLAR CELLS IS BREAKING IMPORTANT ENERGY THRESHOLDS.
Piyush Deepak Shahane	TY Civil	Won second prize in National level competition "Geo-Vishleshana 2024" in field of Geotechnical Engineering organised by Indian Geotechnical Society.
Pratik Dilip Burkul	TY Mechanical	SAEINDIA Foundation Award 2023-24 in two categories: 1. Ramesh Suri Award for Best Innovation in Technology. 2. Mobility Startup of the Year Award. [For promoting entrepreneurship among young engineers].

RESEARCH ACTIVITY

S E R B

Sardar Patel College of Engineering (SPCE) has various research accomplishment and achievements in th` is the list of ongoing research projects supported from various funding institutions.

Sr. No.	Project Title	Faculty involved	Sponsoring Agency	Amount (Lakhs)
1	Voice Coil Actuated Compliant Large Range Nanopositioning and Force Magnification Stages	Dr. Suhas Deshmukh (GCE Karad) and Dr. Kiran Suresh Bhole (SPCE)	Anusandhan National Research Foundation (ANRF)	45.28
2	Laboratory Refrigeration Unit with Transparent Evaporator, real-time data monitoring and IOT integration	Dr. B. N. Bhasme	The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)	2.5
3	Building Research Infrastructure in Mechanical, Civil and Electrical Engineering under FIST Scheme.	Dr. Kiran Suresh Bhole, Dr. Mohan Murudi, Dr. Anil Ghadge, Dr. Pravinchandra Gaikwad, Dr. B. N. Bhasme, Dr. Anupa Sabnis and Dr. Jayram Gholave	Department of Science and Technology (DST)	112
4	Structural control of landslides between Lonavala and Pune along Mumbai Pune expressway Implication to Neotectonic Deformation.	Dr. Suman Rawat, Dr. Ajaykumar Kambekar	Department of Science and Technology (DST)	41.23
5	Experimental and Numerical Investigation of Alumina Micromachining Process by Electrochemical Discharge Machining (ECDM).	Dr. Pradeep Dixit (IIT B) and Prof. Sharad Valvi (SPCE)	Anusandhan National Research Foundation (ANRF)	18.3
6	Application of Bio-electrochemical System for Electrocoagulation and Development of Anion Exchange Membrane using Clay Minerals	Dr. Anil Ghadge	Anusandhan National Research Foundation (ANRF)	45.89
7	Development of machine for rapid fabrication of the biocompatible microneedles,	Dr. Kiran S. Bhole, Dr. P. Gandhi (IIT Bombay) and Dr. P.	Anusandhan National Research Foundation (ANRF)	118
	followed by clinical testing.	Vemula (InStem Bangalore)		
8	Investigation of Fractal Growth on the Curved Surfaces in Hele Shaw Flow	Dr. Kiran Bhole Dr. Kedarnath Rane (NMIS, Scotland)	Anusandhan National Research Foundation (ANRF)	31.81
9	Technology Development for Controlled Fabrication of 2D and 3D Net-shaped Microstructures using Lifting Plate Hele Shaw Cell	Dr. Kiran Suresh Bhole, Dr. Bhartbhushan Kale, Dr. Megha Nagrale	Department of Science and Technology (DST)	43.56*
10	Programme on Innovation, Design, and Entrepreneurship (IDE) to Foster Make-in-India Initiative	Dr. Kiran Suresh Bhole and Dr. Megha Nagrale	Department of Science and Technology (DST)	7.5*
Total (Rs Four Crores Sixty Six Lakhs Seven Thousands)				466.07

RESEARCH ACTIVITY

S E R B

***Project Approved awaiting disbursement of fund**

ANRF/SERB sponsored project's laboratory is established in room number 243. Three ongoing research projects sponsored by ANRF/SERB are being set up in the laboratory. Establishment of DST FIST laboratory is in progress in the workshop premises. SPCE in joint collaboration with SPIT has installed 33 KW solar power plants on SPCE roof top and is functioning with partial energy powering SPCE laboratories with rest sent to the grid. Mechanical Engineering Department also has established the Blue Star sponsored Centre of Excellence in the area of Heating Ventilation and Air Conditioning.

SPCE exhibit good performance in the research publications in the calendar year 2024. Total 55 (34 Journals and 17 Conference papers, 03 Book Chapters and 01 Review Articles) research papers are published in the calendar year 2024. The publication count per faculty per year rose from 0.54 to 1.14.

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DAISIE BOETTNER

— Revolutionizing Mechanical Engineering



A powerhouse in thermodynamics and heat transfer, Daisy Boettner is a retired U.S. Army brigadier general and a pioneering mechanical engineer. A co-author of the renowned *Fundamentals of Engineering Thermodynamics*, her research in fuel cells and energy storage has reshaped modern engineering. The first female engineering professor at West Point, Boettner's legacy continues to inspire future generations of mechanical innovators.

LYNN CONWAY

— A Pioneer in Electrical Engineering



Ever used a fast computer? You have Lynn Conway to thank. In the 1960s, she invented out-of-order execution, a fundamental process that powers today's microprocessors. Despite facing setbacks, she co-revolutionized VLSI chip design at Xerox PARC, making microchips smaller and more efficient. A trailblazer, professor, and activist, Conway's legacy lives on in every modern device.

LEAH MONCURE

— A Visioneering Civil Engineering



Ever used a fast computer? You have Lynn Conway to thank. In the 1960s, she invented out-of-order execution, a fundamental process that powers today's microprocessors. Despite facing setbacks, she co-revolutionized VLSI chip design at Xerox PARC, making microchips smaller and more efficient. A trailblazer, professor, and activist, Conway's legacy lives on in every modern device.

SUNITA WILLIAMS

An American astronaut and retired U.S. Navy officer, Sunita Williams has spent over 321 days in space across multiple missions. She holds the record for the most spacewalks by a woman, totaling 62 hours and 6 minutes. Williams' achievements have inspired many to pursue careers in aerospace and engineering.



MICHELLE OBAMA

As the former First Lady of the United States, Michelle Obama focused on initiatives supporting military families, working women, and promoting healthy lifestyles. Her advocacy and leadership have had a lasting impact on various social issues.



MALALA YOUSAFZAI

A Pakistani education activist and Nobel laureate, Malala Yousafzai survived an assassination attempt by the Taliban and has since become a global advocate for girls' education. She co-founded the Malala Fund and continues to champion the right to education worldwide.



-Alumni Interview-

CIVIL

Mr. Nikunj Dholay



Q1. Can you share the most significant differences in teaching and industry exposure between your undergraduate and graduate studies?

A1:

During my undergraduate studies in Civil Engineering at Sardar Patel College of Engineering, Mumbai, the focus was more on foundational technical knowledge and traditional classroom instruction. Industry exposure came mostly through internships and limited project-based coursework.

In contrast, my graduate studies in Urban and Regional Planning at the University of Michigan, Ann Arbor have emphasized critical thinking, real-world application, collaborative studios, and policy-based frameworks. The academic environment here pushes for continuous interaction with real-world problems, planning software, and community engagement. Moreover, I've had opportunities to work on live projects like downtown redevelopment, environmental justice, and mobility equity through field project/studio-based learning—something rarely available at the undergrad level in India.

Q2. What is one of the most insightful experiences in your post-graduate studies abroad and how did it help in your personality development?

A2:

One of the most insightful experiences has been observing how students and professionals abroad stay consistently updated with current events and literature in their field. During my undergrad in India, reading beyond the textbook wasn't a strong habit. But at U-M, I've been trained to read policy briefs, technical reports, and academic research almost daily, followed by discussions and analytical writing.

This habit has sharpened my comprehension, critical reading, and communication skills. I've learned how to quickly digest large volumes of technical content and form informed opinions. This has made me more confident in professional settings and developed my capacity to think deeply and broadly.

Q3. What motivated you to pursue your higher studies abroad?

A3:

My motivation was rooted in both personal and aspirational influences. My parents, who came from rural Maharashtra and moved to a city like Mumbai for education, inspired me to aim even higher—to pursue global exposure and learning. Their journey gave me the foundation to take this step forward.

Additionally, many of my close friends from undergrad were also planning to pursue their master's abroad in diverse fields. Their encouragement helped me stay focused on my goals. I wanted to understand how cities and infrastructure work in developed nations like the U.S., and how I could bring that perspective back into my career. Studying abroad has broadened my vision, made me more independent, and given me a global lens on urban development and planning.

Q4. What advice would you like to give aspiring civil engineers, especially those from your alma mater?

A4:

Explore as much of the civil and planning field as you can—infrastructure and development will always be in demand, and this field is incredibly vast. Civil Engineering gives you a solid base, but it's important to find your focus area—whether it's transportation, real estate, environmental planning, structural engineering, or construction management.

Don't be afraid to pursue higher studies if you're passionate. Working for a while can be valuable, but postgraduate education opens up new skillsets, deeper understanding, and stronger professional clarity. Make use of this time to grow. Also, make it a habit to keep reading and stay curious—pursuing my Master's in Urban and Regional Planning has shown me that the field isn't just about technical skills. It's deeply connected to people, policy, equity, and sustainability—all of which shape the way our communities function and grow.

Q5. What are the current and upcoming challenges associated with your industry/field?

A5:

Urban and regional planning is facing several global challenges:

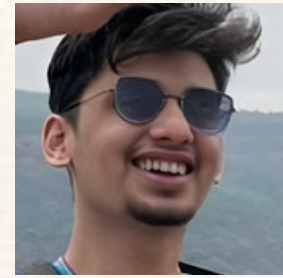
- Rapid urbanization and the strain it places on housing, infrastructure, and transit systems.
- Climate change and environmental resilience, requiring cities to rethink flood management, emissions, and green infrastructure.
- Equity and inclusiveness, especially in terms of access to transportation, housing, and public services.
- Data and technology integration, where planners need to use GIS, data visualization, and analytics for evidence-based decision-making.
- And finally, the politicization of planning decisions—navigating stakeholder interests and achieving inclusive, long-term visions is more complex than ever.

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-Alumni Interview-

ELECTRICAL

Mr.Hrishikesh Wagle



Q1.Can you share the most significant differences in teaching and industry exposure between your undergraduate and graduate studies?

One of the most significant differences between my undergraduate and graduate studies was the pedagogical approach. My engineering education was highly mathematical and logic-driven, focusing on analytical problem-solving and technical proficiency. In contrast, my MBA curriculum was centered on business strategy and decision-making, equipping me with the skills to navigate complex organizational challenges. Engineering helped me develop a structured and logical mindset, while my MBA experience refined my ability to think from a business perspective, enabling me to evaluate market dynamics, make data-driven decisions, and drive product strategies effectively. Additionally, the industry exposure during my MBA was more extensive, with real-world case studies, industry interactions, and hands-on projects that closely aligned with business challenges.

These distinctions have played a crucial role in shaping my professional journey, allowing me to bridge the gap between technology and business in my current role as an AI Product Manager.

Q2. All in all, each of these institutes has helped me shape my personality massively and has contributed to my personal growth.

During my undergraduate studies, I was highly engaged in extracurricular activities and had the opportunity to intern at IIM Lucknow. This experience sparked my interest in product launches and market strategy, leading me to pursue a career in sales and marketing. Initially, I was particularly drawn to FMCG sales, which motivated me to pursue an MBA from IIM Shillong.

Recognizing my aptitude for logic and quantitative analysis, I was confident in my ability to excel in the CAT exam and secure admission to a premier business school. An MBA provided me with a comprehensive understanding of business from both theoretical and practical perspectives. Moreover, the exposure to a diverse cohort helped me develop a broader outlook and enhanced my ability to understand and appreciate varied perspectives.

These experiences have been instrumental in shaping my career as an AI Product Manager. My MBA equipped me with the strategic and analytical skills necessary to bridge the gap between technology and business, allowing me to effectively drive AI-powered solutions in a dynamic market landscape.

Q3.What lessons have you learned about teamwork and leadership while working at Ripik AI? Do they differ from your university studies, if yes how?

As a Product Manager at Ripik AI, I have had the opportunity to lead a diverse team comprising engineers, data scientists, designers, business analysts, and customer success managers. This role has provided me with invaluable insights into leadership and teamwork, many of which differ significantly from my university experiences.

One of the most important leadership lessons I have learned is the power of empowerment. I firmly believe that it is essential to enable every team member to contribute meaningfully to the larger vision of the product. Encouraging individuals to take ownership of their work fosters innovation, engagement, and a sense of purpose. Actively appreciating diverse perspectives and incorporating them into decision-making processes has proven to be instrumental in driving more holistic and effective solutions.

Another critical leadership principle is empathy. A successful product manager must empathize not only with the users to design impactful solutions but also with the internal team to ensure alignment and motivation.

Understanding the challenges faced by engineers, designers, and business teams helps in creating an environment where collaboration thrives and roadblocks are addressed proactively.

Lastly, I strongly believe in fostering a positive and enjoyable work environment. Having worked in high-pressure industries like management consulting and product management, I have seen firsthand how workplace stress can impact performance. Creating a culture where the team feels comfortable, supported, and motivated leads to higher productivity and better problem-solving. Encouraging a balance between responsibility and enjoyment helps maintain high morale, even in challenging situations.

My advice to aspiring electrical engineers, especially those from my alma mater, is simple yet crucial. Firstly, as an engineer, you will often be expected to "think on your feet." Developing critical thinking and problem-solving skills during your undergraduate years is essential, as these abilities will differentiate you in both technical and business-oriented roles. This growth comes from a combination of academics, extracurricular activities, and networking.

Secondly, and perhaps most importantly, make the most of your undergraduate years. These four years will be some of the best of your life, offering opportunities to form lifelong friendships, explore diverse interests, and grow both personally and professionally. Engage in experiences beyond academics—whether it's student organizations, hackathons, or leadership roles—because these will shape your perspective and future career.

Q5. What is one of the most significant memories of your education in Sardar Patel College of Engineering?

Another unforgettable aspect was the last-minute study sessions in the library. The shared sense of urgency, collective problem-solving, and occasional moments of panic somehow made the process more enjoyable. Those late nights of cramming before exams, filled with inside jokes and mutual encouragement, are memories that still bring a smile to my face.

Q6. Is there any one inspiration that you've had and how did they inspire you to your goals?

Observing the founder's unwavering obsession with success and relentless drive to execute ideas was eye-opening. It was not just about vision or intelligence but about sheer persistence and an unyielding commitment to achieving results. This firsthand exposure to a founder's mindset helped me understand that success often comes not just from talent or resources but from an intense focus on execution and problem-solving.

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-Alumni Interview-

MECHANICAL

Mr. Jay Mehta



Q1) What is one of the most insightful experience you have had during your undergraduate studies in SPCE and how did it shape your personality?

Ans: There were so many experiences which shaped my personality that now it is really hard to choose which one to put forth. One of the insightful one was the games that I have played during all the sport events conducted by committee members. The way it shaped my personality was that I learnt a lot of team building strategies throughout the team oriented games. Along with personality development, there are also so many beautiful memories and insights that make me revisit those golden days over and over again.

Q2) Did you participate in various events during the college fests? If yes, then how was your experience?

Ans: Yes, Indeed. I did participate in the college annual fest. It was so amazing and confidence gaining to interact with my colleagues which got professionalism into me, a sense of enjoyment in everything I do and build great gratitude towards the inspiring people which are my seniors/friends whom I worked with.

Q3) What are the current and upcoming challenges associated with your industry or field?

Ans:- In my field, staying updated with rapid technological advancements is crucial. Sustainability is a growing concern, pushing us to develop energy-efficient and eco-friendly solutions. There's also a shortage of skilled professionals, making continuous learning essential. Additionally, economic fluctuations can impact job stability and project funding, so adaptability is key.

Q4) What skills have you found most useful in your professional life? How does one inculcate those skills?

Ans: Being precise, oriented, sincere, confident, loyal, are the various skills that have proved to be very useful in my professional life. Inculcating these skills not only help in personal growth but also help maintain a good professional impression in your work area which in turn proves to be upgrading in your life. One should Inculcate these skills by understanding what's important and how you can work efficiently without expectations of the results. When you do your work with focus and interest, all these skills fall into place. Just be disciplined, work hard and have a growing mindset.

Q5) What skills have you found most useful in your professional life? How does one inculcate those skills?

Ans: Being precise, oriented, sincere, confident, loyal, are the various skills that have proved to be very useful in my professional life. Inculcating these skills not only help in personal growth but also help maintain a good professional impression in your work area which in turn proves to be upgrading in your life. One should Inculcate these skills by understanding what's important and how you can work efficiently without expectations of the results. When you do your work with focus and interest, all these skills fall into place. Just be disciplined, work hard and have a growing mindset.

Q6) What would you like to advice the young students out there about career options and various opportunities available after their undergraduate studies?

Ans:- I encourage students to explore diverse fields like aerospace, automotive, energy, and biomedical engineering. Higher studies or research can help in specialization, while entrepreneurship offers opportunities for innovation. Interdisciplinary knowledge in robotics, AI, and automation can give you a competitive edge. Most importantly, gaining industry experience through internships and networking is invaluable for career growth

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Civil Engineering Students Association



CEA COMMITTEE 2024-25:

General Secretary: Suyash Gaware

Site visit : Atharva Korgaonkar

Technical Heads ; Anshul Meshram ,Nishant Johare

Financial head ; Jayesh Bodke

Non Technical Head ; Rohan Valvi

Sports Heads: Pranav Bhandari , Abhinav Khandekar

Creative Heads: Maitreya Mohite, Devhuti Matte

Events Completed in 2023-24:

- 1.Calculator Workshop
- 2.Trek
- 3.CEA Cup
- 4.SANKALP
- 5.Shringar competition
- 6.Alumni Talk
- 7.Guest Lectures
- 8.Site Visits
- 9.Trip to Dapoli
- 10.AUTOCAD Workshop
11. Know Your Faculty



The Civil Engineering Association (CEA) at SPCE College is a committee primarily consisting of third-year students and coordinated by second-year students. This unique structure ensures a blend of experience and fresh perspectives in organizing and executing various activities. The core objectives of the CEA revolve around Enhancing Educational Growth, Promoting Professional Networking, and Encouraging Social and Recreational Engagement. The CEA operates with the help of the CEA committee advisor, Prof. Snehit Kumbhar, and Dr. Hansa Jeswani, the Head of the Civil Engineering Department, providing essential guidance

CEA

Electrical Engineering Students Association



EESA Committee 2024-25:

General Secretary: Rushikesh Patil

Finance Secretaries: Hitanshu singh , Ishaan Nigudkar

Technical Secretaries: Palash Wankhade , Om Chavan ,
Vijay Wadekar

Non-Technical Secretaries: Rajwardhan Janga,
Chaitral Marate,
Sahil Ghadavale

Sports Secretaries: Pranav Mangave, Seema Sagar,
Harshwardhan Patil

Department Library Heads: Bhomesh Nehete ,
Khalid Ansari

Events Completed in 2024-25

- **Technical events-**
 - Calculator Workshop
 - Electronics Workshop
 - AutoCAD Workshop
 - Industrial Visit to TPSDI
 - Alumni Talk Session
- **Non-Technical Events**
 - Trekking and Trip to Lonavala
 - Diwali Photography Competition
 - Blood Donation Campaign



Throughout the academic year, the EESA Committee has demonstrated unwavering dedication to equipping students with the skills and knowledge necessary to tackle the challenges of tomorrow. Their commitment to excellence in both technical proficiency and holistic development is evident in every aspect of their work. By integrating industry relevance into their initiatives, they have effectively bridged the gap between academia and real-world applications, empowering students to thrive in the dynamic field of electrical engineering. Through a diverse range of events, workshops, and educational programs, the committee has enriched the academic journey of its members, fostering a culture of innovation, collaboration, and leadership.

EESA

Mechanical Engineering Students Association



MESA Committee 2024-25:

General Secretary : Nachiket Mulay

Industrial Interaction Secretary : Abhishek Rajpure

Cultural Secretary : Aqdas Siddiqui

Social Secretaries : Prem Murade ,Saanvi Patne

Finance Secretary : Om Ladole

Ladies Representative : Samruddhi Sangle

Magazine Secretary : Rajat Kamble

Events Completed in 2024-25

- 1.Blood Donation Camp
- 2.Finance Seminar
- 3.Teacher's Day & Women's Day
- 4.Cloth Donation Drive
- 5.Treks
- 6.Reel-Making Competition
- 7.Felicitation Ceremony
- 8.Industrial Visits
- 9.AUTO CAD Workshop
- 10.Technical Competitions
- 11.ASTRA – The Sports Fest



The Mechanical Engineering Students' Association (MESA) is a student-driven organization dedicated to fostering technical knowledge, leadership, and teamwork among mechanical engineering students. MESA serves as a platform for academic growth, industry exposure, cultural engagement, and social responsibility. With a diverse range of initiatives—including technical workshops, industrial visits, cultural events, social initiatives, and ASTRA (the sports fest of Mechanical Engineering students)—MESA ensures holistic student development, preparing them for professional and personal challenges. The association has been thriving under the guidance of faculty incharges- Dr Megha Janbandhu, Prof.Sharad Valvi and Dr Ramsubhash Maurya.

MESA

RACING

The Formula Student Team Of SPCE



SPCE RACING ELECTRIC: From Blueprints to Racetrack

SPCE Racing Electric, the official Formula Student team of Sardar Patel College of Engineering (SPCE), has been at the forefront of student motorsports since 2010. What started as an initiative to apply theoretical knowledge to real-world engineering has evolved into a team of 56 dedicated students designing, manufacturing, and testing high-performance electric race cars.

Competing in events like BAJA, SUPRA, SAE, and Formula Bharat, the team continues to push the boundaries of electric vehicle technology. Formula Bharat, held at Kari Motor Speedway, is India's premier student motorsport event, providing a platform to showcase innovation, business feasibility, and design excellence in the field. The competition is divided into static and dynamic events. Static events include Design, Cost, and Business Plan presentations, where teams justify their engineering choices and financial feasibility. The dynamic events test the car's real-world performance in acceleration, endurance, and efficiency, making it a comprehensive test of both engineering skills and execution.



A key aspect of SPCE Racing Electric is its open learning environment, where every team member is given a platform to conceptualize, develop, and test their own systems. Whether it's designing a system from scratch, detecting faults or watching it on race on track, members work on real-world challenges, seeing their ideas take shape on the track. This hands-on experience bridges the gap between academics and practical application, fostering skills that are invaluable in the industry.

Strong industry support from sponsors like Ronak Switchgear and Automation, Wildcraft, Virtue Electronics, Godrej & Boyce and Misumi along with the guidance of faculty advisor Dr. Santosh Rane, alumni, college faculties enabled the team to achieve outstanding results at Formula Bharat 2025.

ACHIEVEMENTS:

- Business Plan Event Finalist
- EDP Event Finalist
- Overall AIR- 05
- Overall score - 248.65

These accomplishments reflect the team's technical expertise and commitment to excellence.

As SPCE Racing Electric continues to innovate, the focus remains on advancing electric mobility and shaping the future of engineering

WAVE

The AeroDesign Club Of SPCE



During the academic year 2023-2024, Team WAVE Shourya diligently prepared for the SAE Drone Development Challenge (DDC) 2024, which took place at SRMIST, Chennai from 29th to 31st August 2024. The team achieved outstanding success, securing AIR-1 in both the Best Technical Design Report category and the overall regular class category.

At the start of the academic year, the club began planning for the upcoming SAEISS Drone Development Challenge, set for August 2024. The recruitment process for new members was carried out, with second-year students joining the team. These new members were introduced to essential training in both basic and advanced aero-design software, which played a crucial role in the design and development process of the drone.

Registrations for the competition opened in September, and the team, composed of both second and third-year students, was formed and officially registered for the event. The team members worked tirelessly through the year, focusing on the design, fabrication, and testing of the drone to meet the competition's demanding requirements.

To further strengthen their skills, the team attended a two-day workshop held by SAE at SRMIST, Chennai, on 9th and 10th November 2023. During the workshop, participants received hands-on training in design and fabrication. The team successfully fabricated a miniature aircraft, which was then flight-tested on the second day. The aircraft built by Team WAVE Shourya performed admirably during the test flights, providing valuable insights for the team.



The release of the competition rulebook introduced new and challenging constraints, such as a wingspan limit of 1.8 meters and an empty weight limit of 4 kg. The primary objective was to maximize payload while adhering to these constraints. The team began by conceptualizing multiple design ideas and configurations, ultimately settling on a U-tail configuration and incorporating winglets to enhance efficiency.

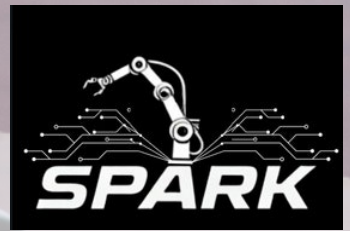
Once the design was finalized, detailed models of the aircraft were created using CATIA. The team then carried out structural analysis using CATIA and Ansys Static Structural to ensure the aircraft's performance and stability. Upon completion of the design and analysis, fabrication of the prototype began. Remarkably, the prototype was ready within a week of starting the fabrication process. The first flight test was conducted at Mahalakshmi Racecourse, where the team checked the aircraft's stability, control response, and power availability. A second round of flight testing followed, with the aircraft successfully demonstrating its ability to lift the calculated payload.

The success at the SAE Drone Development Challenge marked a significant achievement for the club. Looking ahead, the club aims to expand its domain in the fields of drones, rockets, and micro-class aircraft, and to continue its tradition of excellence in engineering design and innovation.

The team would like to express its sincere gratitude to our faculty advisor, Dr. R. S. Maurya, for his continuous support, both technical and moral, throughout the year. His guidance has been instrumental in the team's success.

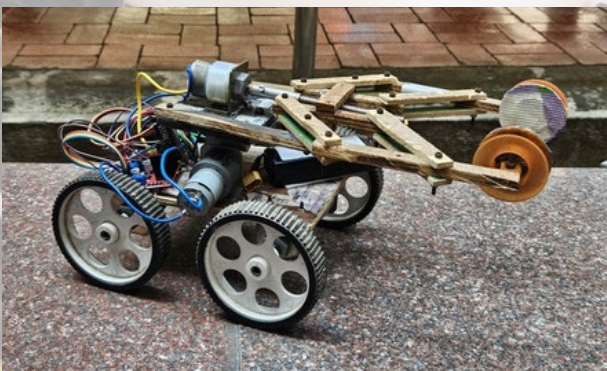
SPARK

The Robotics Club Of SPCE



Welcome to SPARK, the robotics club of Sardar Patel College of Engineering, where innovation meets determination! As the captain, it is my privilege to lead a team of passionate individuals dedicated to pushing the boundaries of robotics and automation.

At SPARK, we believe in "Innovate, Build, Compete", a philosophy that drives us to excel in every aspect of robotics. From designing autonomous bots and AI-driven systems to competing on national and international platforms, our journey is one of constant learning and achievement.



Our most anticipated challenge, ****DD Robocon****, is a testament to our technical prowess and teamwork. Year after year, we strive to build smarter, more efficient robots that can compete on a global stage. With past accolades like ****Best Technical Report**** and top-tier competition scores, we are committed to upholding our legacy and setting new benchmarks.

But beyond competitions, SPARK is a learning ground. Through ****workshops, seminars, and hands-on projects****, we bridge the gap between theoretical knowledge and practical expertise. Whether you're an experienced engineer or just starting, this club is your gateway to mastering robotics.

To our sponsors, mentors, and well-wishers—your support fuels our vision. To my fellow team members—your dedication and hard work make SPARK a powerhouse of innovation.

Let's build, innovate, and bring our robotic dreams to life!



IIIE Indian Institution of Industrial Engineering

The Indian Institution of Industrial Engineering (IIIE) SPCE Student Chapter is a student-led organization at Sardar Patel College of Engineering dedicated to fostering professional development, technical knowledge, and industry exposure. Through seminars, workshops, and networking events, it equips students with practical skills in industrial engineering, management, and sustainability.

Event's:

1. Webinar on E-Waste Management – Led by Ms. Bhavika Waghela, this session focused on Life Cycle Analysis, responsible disposal, and the 3Rs principle (Reduce, Reuse, Recycle). With rising e-waste post-COVID, she emphasized the importance of certified recyclers and sustainable disposal practices.
2. LinkedIn Skills for Engineers – Ms. Siddhi Maheshwari provided strategies for optimizing LinkedIn profiles, effective networking, and creating engaging content to attract recruiters.
3. Personal Branding Workshop – Ms. Harshanki Thakker highlighted how students can build their personal brand through digital platforms, emphasizing authenticity, networking, and professional online presence.
4. Men's Grooming Seminar – Mr. Tarun Naresh Dehlvi discussed how grooming impacts confidence and career success. A mock interview session reinforced self-respect and discipline.
5. Telecom Industry Session – Conducted by Vodafone Idea (Vi), the seminar introduced career opportunities in telecom, covering advancements like VoWiFi, VIC Chatbot, and cybersecurity initiatives.
6. Industrial Visit to Mumbai Metro Line 1 – Led by Mr. Gopalakrishnan, this IV covered train capacity, system upgrades, and maintenance insights. Experts explained track changes, signalling, and driver training simulations.

Date of Event	No. Of Participants	Title of Event
12th November 2024	35	Seminar on Personality Development for Men
23rd November 2024	90	Webinar on Build your Profile & Personal Brand for Career Success
26th November 2024	50	Orientation program on Telecom
16th January 2025	40	Webinar on Life Cycle Analysis of E-Waste
7th March 2025	40	Seminar on Understanding and Improving LinkedIn Skills for Engineers
12th March 2025	40	IV to Mumbai Metro Line 1



ASHRAE Institute and Innovation Cell

ASHRAE SPCE Student Branch

The ASHRAE SPCE Student Branch, under the ASHRAE Mumbai Chapter (part of Region at Large), promotes knowledge sharing in HVAC (Heating, Ventilation, and Air-Conditioning) through industry visits, expert lectures, and workshops. Prof. Kunal Bhavsar (faculty advisor) and Dr. B. N. Bhasme (co-advisor) act as key liaisons between students and ASHRAE Mumbai.

Key Activities and Achievements:

- **Industry Visits & Lectures:** A factory tour to Blue Star's Wada Plant gave 25+ students hands-on exposure to manufacturing processes. On October 26, 2024, a Distinguished Lecture on HVAC Fundamentals by Mr. Vikram Murthy was attended by 35+ students and 10 industry professionals.
- **Research & Grants:** Dr. B. N. Bhasme secured ASHRAE's International Program Equipment Grant (\$2,980/₹2.49 lakh) for a project on Laboratory Refrigeration with IoT integration, marking SPCE's first ASHRAE-funded research.
- **Competitions:** In the ASHRAE RAL Quiz Competition, Shreyas Waindeshkar progressed to the international level, securing a top-9 position globally.
- **Internships:** ASHRAE SPCE facilitated HVAC internships in July–August 2024 for students at Kruger, Electro Mech, and KPM, providing valuable industry exposure.



ALUMNI COMMITTEE



Golden Jubilee Felicitation Meet 2025 – Batch 1974-75

The Golden Jubilee Felicitation Meet 2025 celebrated 50 years of the SPCE batch of 1974-75 on 13th February 2025. The event began at 3 PM with alumni gathering at the SPCE entrance, reminiscing about their college days. They interacted with the SPCE Principal, followed by a departmental tour, visiting labs and students. The alumni then proceeded to SPIT, engaging with its Principal and touring the Nidhi Prayaas Lab for insights into modern technologies.

A hi-tea session at SPCE fostered conversations and photo sessions. The canteen inauguration ceremony was held in the presence of the Principals of SPCE and SPIT, alumni, faculty, and the alumni association, recognizing the alumni's contributions to student welfare.

The felicitation ceremony at the SPIT auditorium honored the "Sholay Batch" with trophies and coffee mugs. An audiovisual presentation revisited past memories, followed by a nostalgic photo collection. The day concluded with a grand dinner, celebrating lifelong bonds and cherished memories.





SAE SPCE SAE COLLEGIATE CLUB



About :

Founded in 2021 at Sardar Patel College of Engineering, the SPCE SAE Collegiate Club is a student-led committee. Currently, operates under the SAE India Western Section, dedicated to fostering innovation, hands-on learning, and industry collaboration. Our goal is to transform ideas into reality by blending theoretical knowledge with practical experience, engaging in exciting projects, and building strong industry connections.

Our aim is to foster a culture of innovation and collaboration while connecting students with industry professionals and global peers. Guided by Faculty Advisor Dr. Santosh Rane, the club is structured to facilitate learning beyond the classroom through various planned activities, workshops, and competitions. Under the leadership of Chairman Shreyas Waindeshkar, the club aspires to make a significant impact by encouraging student participation in SAE events, national-level competitions, and industry-oriented projects.

Achievements :

The club has gained significant recognition through its key achievements.

1. Recognition by SAE India for academic year 2024-25.
2. Achieved 100+ SAEINDIA memberships for the academic year 2024-25, marking a milestone in student engagement.
3. Shreyas Waindeshkar (Chairman) is honoured with the SAE India Section Award for inspiring and leading student volunteers, boosting SAEINDIA engagement, and connecting academics with industry and the field.
4. Pratik Burkul (Joint Head, Documentation Committee) received the Ramesh Suri Award for Best Innovation in Technology, contributed by M/S Subros Limited, Delhi, along with the Mobility Startup of the Year Award.

ROTARACT CLUB OF SPCE

Spreading Love and Serving the community

Rotaract Club of Sardar Patel College of Engineering A student-driven organization dedicated to community engagement, social responsibility, and leadership development. Chartered in 2019 under the Rotary Club of Bombay Mahakali Heights, it operates in Zone 2A, Rotary International District 3141.

Vision

To build a compassionate and resilient community where members drive positive societal change for a stronger cohesive society.

Mission

To actively engage and empower members to make a meaningful impact through service, awareness, and leadership.

Key Events (2024-25)

Aksa Beach Cleanup Drive – Environmental initiative promoting sustainability.

Installation Ceremony – Induction of new members and office bearers.

Health Checkup Camp – Free medical checkups for the community.

Diwali Party – Cultural celebration fostering creativity.

City Sagas – Online photography event sharing city experiences.

Back to Play – Nostalgic event revisiting childhood memories.

The Millennial Summit – Support for a district-level Rotaract event.

Samvidhan Diwas Quiz – Constitution awareness competition.

Guest Speaker Event -Speaker of the event: IPS Vishwas Nangare
Patil Hosted Mental Health Conference

The Rotaract Club of SPCE goes beyond fun activities—it stands for community service, youth empowerment, and holistic development. Looking ahead, the club aspires to take on greater initiatives and create an even bigger impact.



SPARSH

The Drama Club of SPCE

The Sparsh Drama Club of SPCE is a platform for students to showcase their creativity through a unique medium. It is said that copying is bad, as it limits one's own creativity and potential, but intelligent copying is an essential aspect of acting. The drama club not only provides exposure to actors but also covers every aspect of filmmaking and drama, enabling students to bond and work together to achieve success.

SPARSH Drama Club envisions a dynamic future where storytelling transcends traditional boundaries, inspiring our community and beyond. Our mission is to cultivate creativity, storytelling, and technical skills among students through a blend of theater productions, short films, and entertainment videos.

In the academic year 2024-25, Sparsh Drama Club undertook several projects, including short films, stage dramas, and short content. We created two short films, "The Faceless Girl" and "11:11," in a long video format. On special occasions like Independence Day, Republic Day, and Shivjayanti, we performed dramas and created reels to raise awareness and inspire the youth for the nation's cause. We also focused on creating short content to reach a wider audience through social media.

As per our tradition, Sparsh performed a stage drama at Sphinx, and this year's theme was "Year Drop" (YD). The response from both students and faculties was overwhelmingly positive.

Currently, we are working on new projects, which will be released soon. Stay tuned!

"Life is like a movie, led by you but directed by the Father."



SPLASH

The Dance Club of SPCE

SPLASH, the Dance Club of SPCE, is a dynamic community that fosters creativity and self-expression through dance. Open to all skill levels, the club provides a platform for students to explore diverse dance forms, develop their abilities, and contribute to the cultural vibrancy of the college. Throughout the year, SPLASH showcased its talent and dedication through a series of impactful performances at major college events.

Major Performances & Events:

The year began with a powerful Independence Day performance, where SPLASH delivered a patriotic routine that depicted India's journey to freedom. The performance was well-received, setting an energetic and inspiring tone for the rest of the year.

For the NAAC committee visit, SPLASH presented a fusion dance that seamlessly blended classical and contemporary elements. This performance was designed to reflect SPCE's cultural and artistic diversity, leaving a lasting impression on the committee members and contributing to the institution's overall presentation.

During the Republic Day celebrations, SPLASH once again took center stage with a high-energy performance. Incorporating Bharatanatyam, Kathak, and contemporary styles, the routine symbolized India's unity, strength, and heritage. The performance captivated the audience, reinforcing the role of dance as a powerful medium for storytelling and expression.

As SPLASH moves forward, it remains dedicated to expanding its reach, embracing new dance styles, and providing more opportunities for students to showcase their passion for dance.



SPANDAN

The Musical Band Of SPCE



SPANDAN, the Music Club of Sardar Patel College of Engineering, continues to make waves in Mumbai's college music scene. Under the leadership of President Saanvi Patne, Creative Head Ankit Pagare, Rhythm Head Advay Kadayam, Vocal Head Sakshi Pise, Melody Head Krushnal Chaudhari, Rhythm Co-Heads Ayush Khetale and Yash Chinchavade, and Melody Co-Heads Tejas Jadhav and Joy Kasbe, the club has delivered outstanding performances, showcasing immense passion and talent.

With a team of skilled musicians, including vocalists Palash, Nessia Adhav, and Shreya Gade, tabla players Shreeya Rajput and Harsh Kabra, and keyboardist Vrinda Mansinghka, SPANDAN has set new benchmarks in musical excellence.



This year, SPANDAN has enthralled audiences with a series of remarkable performances. The Independence Day and Republic Day celebrations featured patriotic renditions that resonated with the entire college. On Teachers' Day, the team paid a heartfelt tribute to faculty members with soulful melodies. The club also welcomed the newest batch of students with a vibrant jamming session during Freshers' Induction.



Taking music beyond the campus, SPANDAN performed an exhilarating open-air jam on Marine Drive, captivating passersby with their energy and musical prowess. One of the biggest highlights of the year was the SPHINX 2025 Performance, where the team delivered a spectacular act at the techno-cultural fest, hosted by vocalist Nessia Adhav.

Additionally, SPANDAN had the privilege of performing for the NAAC Committee, showcasing the cultural vibrancy and artistic talent of SPCE.

With unwavering dedication and creativity, SPANDAN 2025 continues to elevate its musical journey, leaving an indelible mark on every stage it graces. The club looks forward to creating even more memorable experiences and carrying forward its legacy of musical brilliance.

PIXEL VISION

Pixel vision is the official photography club of Sardar Patel College of Engineering founded in 2019 by Adesh Koli and Akash Bangar, and a group of artistic engineers driven to promote the skill of photography.

Pixel Vision has since focused on fostering interest in photography and videography among the institute's students. The club has had strong support from our mentor, Prof. Pritesh Rao and our faculty advisor, Dr. Santosh B. Rane.

We work hand in hand with the student council throughout the year, covering all the cultural and annual events in the college including the biggest event of our institute, Sphinx, a three-day event that tests our talents and provides us with a great opportunity to experience the thrill of being on the field and putting our thoughts and lessons into action.

Events like these offer our members invaluable hands-on experience and a deeper understanding of photography.

Accompanied by plans for further workshops on photography and videography, the club aims to grow a vibrant ecosystem for the nurturing of this art in amateur photographers and future enthusiasts.



SPHINX

TECHNO-CULTURAL EVENT



Sphinx 2025, the eagerly awaited annual techno-cultural fest of Sardar Patel College of Engineering, unfolded with an air of anticipation and excitement, meticulously organized by the diligent members of the student council for the academic year 2024-25. Spanning three exhilarating days from February 27th to March 1st, Sphinx offered a dynamic fusion of technical ingenuity and cultural vibrancy, attracting participants and spectators alike from far and wide. The fest served as a vibrant showcase of the college community's diverse talents, passions, and collaborative spirit, exemplifying the essence of creativity and innovation that defines SPCE.

The festivities commenced with grandeur and pomp at the inauguration ceremony held at 10 AM on February 27th, heralding the dawn of an action-packed weekend. Day one unfolded with an exciting array of events, setting the stage for a thrilling journey of exploration and engagement. From the adrenaline-fueled Clash of Concrete and the robotic showdowns of Robo Sumo and Robo Soccer to the glitz and glamour of the Mr. and Ms. Sphinx beauty pageant, participants showcased their skills and charisma with fervor and flair. Step Up, the fiercely contested dance competition, showcased the grace and dynamism of talented performers. The Mr. and Ms. Sphinx competition continued to captivate as contestants dazzled the audience with their charm and poise, exuding elegance and personality to add a touch of glamour to the festivities. The highlight of the day was a spellbinding stand-up comedy extravaganza by acclaimed comedians Anish Goregaonkar, Sagar Punjabi, and Chaitanya, leaving the audience in stitches of laughter and applause.



Day two dawned with renewed anticipation and enthusiasm, as participants and spectators alike immersed themselves in a whirlwind of cultural and technical competitions. The soulful melodies of Swaranjali echoed through the air, captivating audiences with their emotive resonance, while the electrifying performances of competing bands in the War of Bands infused the atmosphere with an infectious energy. Spandan, the music club of SPCE, enthralled the audience with their enchanting renditions. Concurrently, the intellectual prowess of participants was put to the test in a series of technical challenges including Constructo, Mech Quiz, and Magic by Logic, pushing the boundaries of innovation and intellect to new heights.

As the final day of Sphinx 2025 dawned, the campus buzzed with excitement and anticipation, brimming with the promise of unforgettable experiences and cherished memories. From the adrenaline-charged Clash of Concrete and the exhilarating Cadventure to the creative showcase of Plan It and the intellectual stimulation of Rhyme and Reason, participants embraced the diverse array of events with gusto and determination. The day culminated in a thrilling IPL Auction and an Auto Expo, offering attendees a glimpse into the future of innovation and technology.

As dusk descended, the festivities reached a crescendo with an unforgettable ProNite, featuring an electrifying lineup of artists—Arjun Tanwar, Maahi Music, and 99Side. Their sensational performances captivated the audience, turning the night into a musical spectacle filled with rhythm, energy, and unbridled enthusiasm. The DJ night that followed kept the excitement soaring, as students and attendees danced the night away, bringing Sphinx 2025 to a spectacular close and leaving indelible impressions on all who were fortunate enough to partake in its magic.



TECHNICAL EVENTS

Technical Events at SPHINX – Igniting Innovation and Creativity

SPHINX, the annual techno-cultural fest of our college, has always been a platform for students to showcase their technical prowess, creativity, and problem-solving abilities. This year's edition was nothing short of spectacular, with an array of technical events designed to challenge and engage participants in various domains. From robotics and coding to engineering design and logical problem-solving, each competition brought out the best in its contenders.

Here's a detailed look at the technical events that made SPHINX a grand success this year:

Shark Tank – The Debut of Entrepreneurial Brilliance

For the first time in our college, SPHINX hosted its own version of Shark Tank, an event that encouraged budding entrepreneurs to pitch their innovative business ideas. Participants presented groundbreaking solutions to real-world problems, impressing a panel of judges with their creativity, feasibility, and market potential. The event witnessed a surge of new and emerging ideas, making it one of the most exciting additions to the fest.

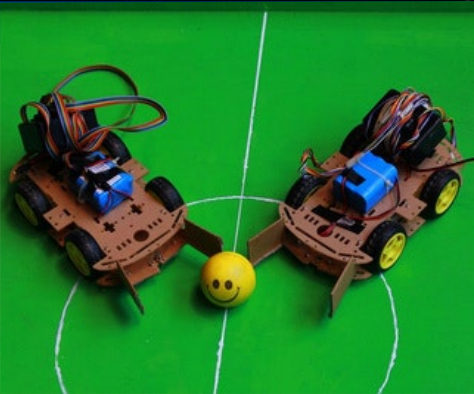
Mock Interview – Preparing for the Future

To help students prepare for real-world job interviews, the Mock Interview event tested their aptitude, communication skills, and confidence. The event was structured in three phases:

1. **Aptitude Test** – A brief test to assess logical and analytical reasoning.
2. **Group Discussion** – Evaluating teamwork, articulation, and critical thinking.
3. **Personal Interview** – A one-on-one session where students faced industry experts, gaining invaluable feedback to refine their interview skills.

This event proved to be a stepping stone for many students, preparing them for their future professional endeavors.

TECHNICAL EVENTS



COC – Clash of Concrete Minds

With participants from cities like Nashik, Pune, Sambhajinagar, and Mumbai, COC (Clash of Concrete) saw an overwhelming response with 20 teams competing. The challenge was to develop the most efficient and sustainable concrete mix proportion. This event emphasized learning through practical implementation, allowing students to enhance their understanding of construction materials while competing for the best mix design.

Constructo – Engineering the Strongest Bridge*

A test of civil engineering skills, Constructo required participants to build a bridge using ice cream sticks, which was then tested for load-bearing capacity. The challenge lay in creating the most efficient design that could withstand maximum weight while maintaining stability. Teams applied structural engineering principles to develop innovative and robust bridge models.

Plan It – Designing Smart Spaces

Plan It was all about optimizing space efficiently. Teams were provided with a floor plan outline and had to strategically arrange furniture while considering key factors such as ergonomics, space utilization, and aesthetics. With just 90 minutes to complete the task, the event tested participants' design thinking and decision-making abilities. A Q&A round at the end assessed their reasoning and justification for the chosen arrangement.

Mech Quiz – A Battle of Mechanical Minds

A test of knowledge and speed, the Mech Quiz challenged students from the mechanical department with a series of technical questions covering fundamental and advanced concepts. The competition was intense, as participants had to think quickly and apply their theoretical knowledge in real-time.

TECHNICAL EVENTS

Robo Soccer – Engineers’ Take on Football

Football met technology in the Robo Soccer event, where participants built robots designed to play soccer. The competition highlighted the creativity and technical expertise of engineering students as they programmed their robots to dribble, pass, and score goals. This fusion of sports and automation made it one of the most entertaining technical events of SPHINX.

Cadventure – The Art of Engineering Design

A competition aimed at testing participants' proficiency in 2D design, Cadventure allowed students to showcase their skills in software like AutoCAD and SolidWorks. The event not only assessed technical accuracy but also encouraged creativity in engineering drawing and modeling.

Magic by Logic – A Challenge of Circuitry

This event put participants' logical and analytical thinking to the test in a two-round offline competition:

- **Round 1:** Solving logic-based problems involving logic gates, Karnaugh maps (K-maps), logic circuits, flip-flops, and basic circuit design.
- **Round 2:** Practical circuit analysis, where participants had to apply their knowledge to analyze and troubleshoot real circuits.

It was an exciting competition that brought out the best in aspiring electronics and electrical engineers.

SPHINX 2025 proved to be an exhilarating experience for all participants, with each technical event fostering innovation, teamwork, and problem-solving skills. Whether it was through robotics, structural engineering, entrepreneurship, or logical reasoning, students demonstrated their passion for technology and creativity. The enthusiasm and competitive spirit displayed throughout the fest were a testament to the bright future of engineering and technology at our college.

SPIRIT



SPIRIT

SPCE'S SPORTS EVENT

"Spirit 2025" Sets Mumbai Ablaze: A Colossal Clash of Collegiate Titans at SPCE

Mumbai, Maharashtra – The vibrant campus of Sardar Patel College of Engineering (SPCE) has been transformed into a battleground of athletic supremacy, as the annual sports festival, "Spirit 2025," unleashes a week of unparalleled competition and camaraderie from March 8th to 16th, 2025. This year's edition, a testament to the indomitable spirit of sports, has drawn an astounding 1200+ participants from a constellation of prestigious colleges across Mumbai and Maharashtra.

The grand inauguration, graced by the presence of the esteemed Prof. Ajay Kambhekar, set the stage for a week of unbridled energy and sporting excellence. The air crackled with anticipation as athletes from institutions like: Veermata Jijabai Technological Institute (VJTI), Thadomal Shahani Engineering College (TSEC), Ramrao Adik Institute of Technology (RAIT), K. J. Somaiya College of Engineering, New Horizon College of Engineering, Vidyavardhini College of Engineering, Sardar Patel Institute of Technology, MPSTME, Pillai College, Atlas SkillTech University, Mithibai College, St. Xavier's College, St. Francis College, KBP Vashi, Vidyalankar Institute Of Technology, VIT Mumbai * Rj college, Fr. Conceicao Rodrigues College of Engineering, VCET, HBT Medical College, Pillai College, Panvel, And many more... These colleges converged to showcase their talent in a diverse array of sports, including the ever-popular Football, Cricket, Basketball, Badminton, Volleyball, and Athletics. The strategic battles in Chess, the finesse of Table Tennis, and the digital showdowns in E-gaming added layers of intellectual and modern sporting dimensions. The raw power of Tug of War provided a spectacle of strength, while the tactical elegance of Carrom captivated audiences.

"Spirit 2025" is not merely a display of physical prowess; it is a celebration of inclusivity and women empowerment. This year's event has witnessed a remarkable surge in female participation, with women athletes dominating the courts and fields, showcasing their skills and determination. Their participation in sports like Basketball, Volleyball, Badminton, and Athletics is a powerful statement, reinforcing the ideology of breaking barriers and fostering gender equality in sports. The energy and enthusiasm of female participants has added a very special dimension to this year's spirit.

The organizational backbone of "Spirit 2025" is a testament to the dedication of the SPCE student body. The Sports Committee and the Spirit Organizing Committee, under the dynamic leadership of the college's sports secretaries, have orchestrated a seamless and electrifying event. The fest's success is further amplified by the generous support of its sponsors: Powered by Indian Oil, and co-Powered by RV Spectrum Technologies, demonstrating the strong community and industry backing.

STEM CELL DONOR REGISTER DRIVE

- **Organized by:** Student Council, SPCE
- **In Collaboration with:** Marrow Donor Registry India (MDRI)
- **Date:** 4th February 2025
- **Venue:** Room No. 119, SPCE
- **Time:** 9:00 AM – 4:00 PM

The Student Council of Sardar Patel College of Engineering (SPCE) organized a Stem Cell Donation Campaign in collaboration with Dr. Praveen Clement and his team from Marrow Donor Registry India (MDRI). The objective of this initiative was to spread awareness about stem cell donation and encourage students to register as potential donors.

To ensure maximum participation, Dr. Praveen Clement visited SPCE and Sardar Patel Institute of Technology (SPIT) on 3rd February 2025. He conducted interactive sessions across various classrooms, educating students about the significance of stem cell donation, the procedure involved, and the potential impact on saving lives. His efforts played a crucial role in motivating students to participate in the campaign.

The donation drive was conducted in Room No. 119 at SPCE on 4th February 2025, from 9:00 AM to 4:00 PM. The registration process involved a simple and non-invasive saliva sample collection, which was then added to the donor registry database. As a token of appreciation, each participant received a Cadbury chocolate.



The campaign was met with an enthusiastic response, resulting in a total of 184 registrations. The active participation of students and faculty members demonstrated their willingness to contribute to a meaningful cause. The event not only increased the number of potential donors but also raised significant awareness about the importance of stem cell donation within the college community.

The success of this initiative was made possible through the joint efforts of the Student Council, Dr. Praveen Clement and his team. Their dedication and collaboration ensured the smooth execution of the event. The Student Council looks forward to organizing more such impactful initiatives in the future, furthering its commitment to social responsibility and community welfare.

ANNUAL DEBATE

The SPCE Student Council (2024-2025) proudly organized the SPCE Annual Debate 2024, a thought-provoking and intellectually stimulating two-day event. The event aimed to provide a platform for students to engage in critical discourse on pressing global issues. The theme of this year's debate, "Impact of Automation: Will Advances in Robotics and AI Lead to a More Efficient Society or Widen Socioeconomic Inequality?", resonated deeply with participants, reflecting the growing relevance of technology in shaping our world.



The SPCE Annual Debate 2024 began with an intense league round, where participants showcased their analytical and oratory skills on topics like job displacement, ethical concerns in AI, and automation's role in productivity. The fierce competition kept judges and the audience captivated as teams delivered sharp arguments and rebuttals. The quarterfinals were direct knockout rounds with engaging topics that raised the stakes for all teams. The intense competition and thought-provoking themes made for a thrilling and high-pressure experience, keeping both participants and the audience captivated.

The semifinals and finals turned up the heat, with the competition becoming even more intense and exciting. The debates reached a whole new level, as top teams passionately argued compelling points, making for a thrilling and high-energy conclusion to the event. The SPCE Annual Debate 2024 was a resounding success, showcasing exceptional critical thinking and oratory skills. The engaging topics and intense competition captivated the audience and judges, making it a memorable experience. Well-organized and enthusiastically participated in, the event was a significant achievement for the Student Council.



TEDxSPCE

TEDxSPCE was the annual TEDx Event organized at Sardar Patel College of Engineering. Founded in 2024, the inaugural edition was held on March 8, 2025, on International Women's Day. The first organizing committee was led by Neelanjana Mandal with Dr. Shyamlee Solanki as the Faculty Advisor.

The event aimed to:

- **Make our college a hub for thought-provoking conversations.**
- **Foster critical thinking and open-mindedness.**
- **Entertain and expose the audience to new fields of interest.**

Inspired by Brandon Sanderson's quote, "Words are where most change begins," the organizing committee chose the theme "Shattering Illusions." The team sought impactful speakers to challenge perceptions and spark change. The lineup included:

- **Capt. Aman Johri: Astronaut Candidate, helicopter pilot, and founder of Jatayu.**
- **Yutika Banerjee & Sandeep Thakur: Accomplished Classical Violinists.**
- **Rinaa Shah: India's first female Polo Player, Fashion Entrepreneur, and DJ.**
- **Shibin Harinadh: Mentalist, hypnotist, and national kickboxing champion.**
- **Siddhant Shah: Founder of Access For ALL, a Disability and Inclusivity consultant.**

The audience was captivated by insightful talks ranging from 'Space Tourism' to 'The Myths of the Music Industry.' Discussions on 'The Power of Belief and the Illusion of Failure,' 'Overcoming Fears,' and 'Disability-Friendly Workplaces' left a lasting impact. As debates sparked among the attendees, the event's success was evident.

None of this would have been possible without the dedication of the organizing committee, the guidance of faculty, and the support of the Student Council. This is just the beginning of a tradition of thought-provoking events. See you next year!

SPCE x DIPLOMAT MUN

The vibrant halls of Sardar Patel College of Engineering (SPCE) came alive as the institution proudly collaborated with Diplomat to host the much-anticipated DIPLOMAT MUN x SPCE 2025. The event, a celebration of diplomacy, critical thinking, and global awareness, unfolded over two dynamic days and witnessed the participation of bright young minds from across the city.

The conference featured two prestigious committees – the United Nations Security Council (UNSC) and the Disarmament and International Security Committee (DISEC). Delegates enthusiastically stepped into the shoes of world leaders, engaging in high-level debates, proposing resolutions, and displaying exceptional oratory and negotiation skills.

The conference was graced by the presence of Mr. A. Chowdary, Chairperson of Diplomat, whose address inspired delegates to rise above conventional discourse and seek impactful solutions to global issues. His presence added immense value to the conference, setting a high standard for deliberations to follow.



At the helm of the event was Secretary-General Anaiza Chambadia, who demonstrated exemplary leadership and ensured that the conference ran seamlessly. She was supported by a passionate and efficient team, including Yash Borkar, Kyra Irani, and Zainab, who each took on the role of Vice-Chairperson for the respective committees. Their guidance and mentorship were instrumental in maintaining the academic rigour and decorum that MUNs are known for.



The event was skillfully overseen by Director-General Harshika Mhapsekar, whose organizational prowess ensured the smooth execution of all logistical and administrative elements. From coordinating committee sessions to managing delegate engagement, her contribution was central to the event's success.

Both the UNSC and DISEC committees tackled complex and pressing issues, with delegates showcasing their research, strategic thinking, and diplomacy throughout the sessions. The quality of debate, the depth of understanding, and the collaborative spirit on display truly reflected the commitment of the participants to global peace and cooperation.

DIPLOMAT MUN x SPCE 2025 not only provided a platform for intellectual exchange but also fostered meaningful connections and encouraged students to become more globally conscious citizens. The success of the event stands as a testament to the hard work and vision of the organizing committee and SPCE's dedication to holistic student development.

SPECIAL MENTIONS



Mr. Digvijay Shekhar, of final year Civil Engineering, was nominated for ‘ Bank of Baroda Achiever Awards’ for AY 2024-25. The Award comprises of a cash prize of Rs.31000/- and a certificate of honour.

Mr. Atharva Funde , of final year Electrical Engineering, was nominated for ‘ Bank of Baroda Achiever Awards’ for AY 2024-25. The Award comprises of a cash prize of Rs.31000/- and a certificate of honour.



Ms. Shreya Bhatt , of final year Mechanical Engineering, was nominated for ‘ Bank of Baroda Achiever Awards’ for AY 2024-25. The Award comprises of a cash prize of Rs.31000/- and a certificate of honour.

Mr. Piyush Shahane & Mr. Nishant Kharat, of Third Year Civil Engineering won 2nd Prize in GeoVishleshna-2024 Competition conducted by IGC SC 9-Student Chapter Activities and Continuing Education





CIVIL



ELECTRICAL



MECHANICAL

FIRST YEAR



SECOND YEAR



CIVIL



ELECTRICAL



MECHANICAL

THIRD YEAR



CIVIL



ELECTRICAL

B-TECH YEAR



MECHANICAL



STRUCTURAL ENGINEERING



POWER ELECTRONICS AND POWER SYSTEM



CONSTRUCTION MANAGEMENT

POETRIES

ENGLISH

FEAR

Everything you want is on the other side of fear

~ Jake Canfield

Where do I even begin?
Honestly, I feel stuck from within.
All I've done is survive,
Of courage I'm deprived.
This fear was exactly what I could not face then,
I find myself in the same place, again & again.
Will you still want me when I'm nothing new?
I ask my future self,
Turn your weaknesses into your strengths,
that's all she said
It's you against you, not the world
How long will you keep drowning in this hurt?
In a room of judgement, harsh & cold,
Constant voices of dos and don'ts
To see myself precisely where I never wanted to be,
Regretting every second, this is the reality.
The only way out is to face all this,
Nothing will change if I sit here speechless.
Lack of awareness is not the issue,
And this agitation must not continue.
As I write this, I get all the chills,
"The world keeps shifting under my feet, when
all I want is for it to stand still"

~Vrinda Mansinghka (FY mechanical)

FREE

They look at me and say I am free,
But all I see are the walls around me.
A golden cage may glitter brighter than a cell,
Yet a cage, no matter how adorned, is still a cell.
What holds me here isn't a crime or curse;
It's the weight of expectations, relentless and terse.
It is the fear of disappointment,

The weight of causing it too.
It is the cold reality where our inferiority is defined,
Where being good enough just holds us down.
A silent chain that binds beneath a laurel crown
"Don't think about what others say,"
But it's difficult when the spotlight and darkness tug me their way.
Freedom is neither easy nor a mere illusion to chase
To be truly free, you must be free from worldly possessions.
But are you truly you without the possessions defining you.
In the end, can we ever be truly free?

~Akhil P.

POETRIES

ENGLISH

The Art of Being Average

If something is average, it's ordinary and not very special.

Very well said, why'd anyone want to be average, ordinary, mediocre and something not worth a second look,

When you could be a part of the wonders, Unique, uncommon, unorthodox, non conventional, phenomenal and astounding?

Yet, what if being average isn't about mediocrity? What if it's like balancing everything, where it is the summation of mistakes and corrections, flaws and perfections, sadness and joy, fears and bravery, a summation of every detail that makes us human. I'd call them to be jack of all trades who are better than the master of one. Most people today wish to reach the zenith of their glory and forget the roots that anchor them, and in fact forget that maybe being average is the real extraordinary and the power to be whole.

-I'm mean (statistical joke)

~Neelanjana (SY mechanical)

पद्यमाला

अधूरी मोहब्बत

जो लफ़्ज़ों से नहीं, खामोशी से बयाँ
होती है

उसे मेरी ज़रूरत नहीं,
वो आज़ाद है हर बंधन से,
तो क्यों उसकी राहों को अपने प्यार से
रोशन करूँ,
जब वो खुद एक चमकता सितारा है?

हर बार जब दिल बेचैन होता है,
और जब उसका नाम पुकारने को
बेकरार होता है,
तभी उसकी मुस्कुराहट याद आती है,
जो मेरी मोहब्बत के बोझ से आज़ाद
रहती है।

इसी सोच के साथ,
मैं हर मोड़ पर खुद को रोक लेता हूँ,
तिरछी निगाहों से एक झलक देख
कर,
बिना आवाज़ की दस्तक दिए,
उसके शहर से गुज़र जाता हूँ।

~Mohammad Kaif (SY Electrical)

"अधूरी दुआएं"

तुझसे इतनी इजाज़त चाहूँ मैं...
तेरे कंधों पर सिर रख सो जाऊँ मैं...
आज तक खुदा से तुझे नहीं मांगा मैं...
तू ही बता, खुदा से खुदा को कैसे मांगूँ मैं।

हम मिलेंगे कभी...
वो "कभी-कभी" आया ही नहीं...
शायद खुदा को मंज़ूर नहीं हमारा मिलना...
उसने वो "कभी-कभी" लाया ही नहीं।

जो देखा है सितारा आसमां में तुमने...
यकीन मानो वो कभी वही था ही नहीं ...
आस लगा बैठे थे तुम उसकी...
वो कभी तुम्हारा था ही नहीं।

खुदा को ढूँढा बहुत, कभी मिला ही नहीं...
वो मेरे दिल में था, वहाँ मैंने कभी उसे ढूँढा ही नहीं...
लगता है खुदा को चाँद बहुत अज़ीज़...
मैंने माँगा और उसने कभी दिया ही नहीं।

तुमने आखिर दस्तक दे ही दी दर पे...
अब दरवाज़ा खोलने के लिए जान बची ही नहीं...
इस कफ़न में काफ़ी सुकून है...
बेशक! हो भी क्यों नहीं।

लोग य|हा - वाह| करने लगे हैं मेरी बातों पे...
कहीं मैं शायर तो नहीं...
शायद मतलब है उन्हें मुझसे कुछ...
नहीं, मैं शायर नहीं।

~Shafin Pathan (FY Mechanical)

पद्यमाला

"जीवन मंत्र"

कभी-भी बीती हुए बातों को
और अने वाले कल को ठुकरादो
क्युकी जो आज होगा उसका मोह बीती
हुई
बातोमे नहीं और आने वाले कल में भी
नहीं
इस्लीये जिंदगी की मुस्कुराहटों को
अपनालो
मत सोचो इतना जिंदगी के बारे में
जिसने जिंदगी दी है उसने भी तो सोचा
होगा
जिंदगी के बारे में...

~Mrunmayi Savkar (SY Electrical)

हौसले की उड़ान"

सब्र रखो तबतक, जबतक हो रही हो
तुम्हारी हार, यहीं लड़ने का वक्त है प्यारें,
उस हार को मोका समझके चिरदे!
मुसीबते तो आती रहेगी, उसपे करना पड़ेगा
तुम्हे मात, कुछ बड़ा, करके दिखाने की, है
तुम्हें वही बात
खुद के डर से आँख मिलाकर, निर्भयता से
तू लड़ ।
हार जीत के पीछे नहीं, पर कामयाबी के
पीछे तू पड़
सोच-समझ के करो तुम एक ऐसा विचार !
सदा मेहनत करने के लिए, खुद को करो
तैयार ।
हौसला ऐसा रखो की, तोड़ देगा तू हरडर की
दिवार
एक दिन कोई रोक नहीं पाएगा तुझे, ऐसे
रहेगी तेरी रफ्तार ।

एक दिन तेरी भी कामियाबी झालकेगी
क्योंकि कोशिश करने वालों की कभी हार
नहीं होती।

~Parth Naik (FY Electrical)

मराठी

भारत माझा देश महान, शौर्य, पराक्रमाची ओळख
प्राण। सात समुद्रांनी सजलेली भूमी, संस्कृतीचा दीप
उजळतो जिथे जाणी।

हिमालयाच्या शुभ्र शिखरांनी, निसर्ग सौंदर्याची
लावली शोभा। गंगेच्या निर्मळ पाण्याने, पवित्र केली
भूमी ही लोभा।

शिवबांचा अभिमान जिथे, रणांगणात सिंह गरजले।
भगतसिंह, नेताजींसारखे, हृदयातून राष्ट्र जागले।

गणेश, विठोबा, रामकृष्ण, संत परंपरेचा हा वारसा।
ज्ञान, भक्ती, कर्मयोगाने, समृद्ध झाला हा संस्कारांचा
ठसा।

शेती, विज्ञान, तंत्रज्ञान, प्रगतीचा हा नवा दिवा।
विश्वगुरूच्या शिखरावर, भारत पोहोचेल पुन्हा सदा।

जय हिंद! जय भारत!

ARTWORKS



SHUBHAM



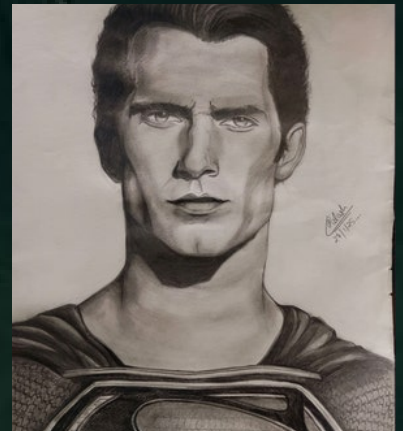
DITI



MAYANK



AROHI



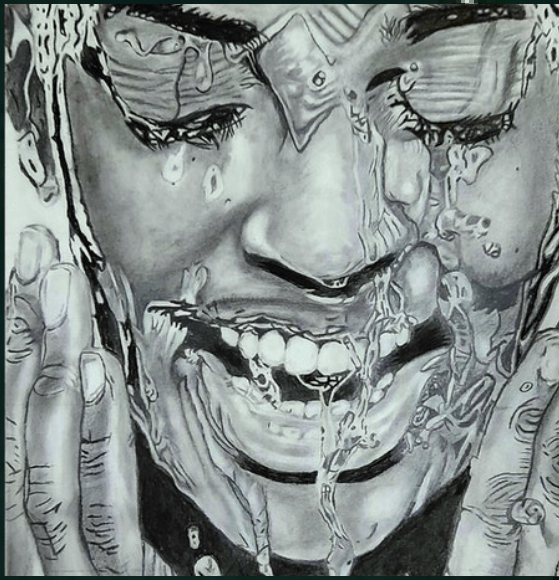
PALASH



MRUNMAYI



SREETHARI



SHAFIN



KHUSHI



RIVA



RIDDIHI



ANVIKA



SHRUTI



MAYANK



The striking fusion of
Van Gogh's *The Starry Night*
and Michelangelo's *The Creation of Adam*,
symbolizing resilience, transformation,
and the relentless pursuit of progress.

The swirling night sky, with its raw,
expressive strokes,
mirrors the turbulence and triumphs of
women's struggles,
while the fractured hands from
The Creation of Adam
depict the shattering of old constraints
—societal, artistic, and gender-based.
This rupture signifies both the resistance
women have faced
and the breakthroughs that redefine their
roles, echoing the defiance of Van Gogh
against artistic norms and Michelangelo's
reimagining of religious iconography.

More than a visual statement,
the cover is a bold metaphor for dismantling
outdated structures
and forging new paths,
where art, history, and feminism converge
in the unyielding march toward
equality.

**Cover's Insight to
DISHA '25**