

**BHARATI VIDYAPEETH**  
**COLLEGE OF ENGINEERING**  
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**NAVI MUMBAI**

**BITS & BYTES**  
**2024-25**



# BHARATI VIDYAPEETH COLLEGE OF ENGINEERING



Bharati Vidyapeeth is an organization established in the year 1964 by our respected founder Dr. Patangraoji Kadam. It has today created history by establishing 187 educational institutes imparting education from the pre- primary stage to the postgraduate stage within a short span of 44 years. At Bharati Vidyapeeth, our objective has been to contribute to intellectual awaken- ing and social transformation in different spheres such as education, economic, social, and cultural fields in India and more particularly in Maharashtra. Our commitment and dedication have been towards catering to the needs of Corporate India by providing quality education and bringing about an all- round development of a wider cross- section of the population including women, tribal and rural people. Always a step ahead, in May 1995 the department of human resources development, Government of India, on the recommendations, of the University Grants Commission accorded the status of Deemed University to 26 in- institutions of Bharati Vidyapeeth. In the year 2000, three more institutions were accorded the same status. Within such a short period, the performance of Bharati Vidyapeeth is accredited to none other than the man himself Dr. Patangrao Kadam.

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Founder Of Bharati Vidyapeeth

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## **LATE DR. PATANGRAO KADAM**

Our mission at Bharati Vidyapeeth is to identify and pre- pare leaders for the new millennium and also to cope-up with the increasing demand for leaders in modern society.

Institute of Management is a workshop where today's youths are shaped up as effective managers of tomorrow. Apart from the study of their regular syllabi, the students should get fair and proper opportunities to

express their views and ideas, especially in the field of Management, which plays a vital role in the modern era.



The youth should be molded and equipped with courage, self-determination, and dedication d must be in a position to overcome any sort of difficulty with introspection.

Keeping this in mind, we should start the brainstorming process of management students, because today's youths are building blocks of tomorrow's society. I am sure, "hard work brings surprising results" and we are second to none

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Secreatry, Bharati Vidyapeeth

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## **DR. VISHWAJEET KADAM**



It Is heartening to know that Bharati Vidyapeeth College of Engineering, Navi Mumbai's Department of Computer Engineering is bringing out its Annual Technical Magazine "BITS & BYTES". Engineers play the most vital role in nation-building. They create new inventions using the best-engineered technologies to make human life more comfortable, secure, and productive. At the outset, I send my greetings to the Editorial Board of "BITS & BYTES", for working on a Magazine best in all aspects. The magazine should be a good source of guidance for faculty and coming batches of students in choosing activities of their choice in their future for building their careers.

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Director, Bharati Vidyapeeth Navi  
Mumbai Campus

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## **DR. V.J. KADAM**

It gives me great pleasure to know that Bharati Vidyapeeth College of Engineering, Navi Mumbai's Department of Computer Engineering is coming up with its yearbook "BITS & BYTES". India has set its vision to join the committee of the developed nation and this would be achieved if Indians combine their minds with their hearts. We would touch technical heights but we would not compromise our age-old values and traditions. The students have expressed their emotions in the best possible manner and I wish them all the best.



I believe this magazine will provide us the benchmark for continued improvement in the overall development of the College and the Students. I also appreciate the efforts of the Editorial team who have done an excellent job in compiling this magazine.

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Principal Of BVCOE  
Navi Mumbai

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## **DR. SANDHYA JADHAV**

Each issue of our Department magazine is a milestone that marks our growth, unfolds our imagination, and gives life to our thoughts and aspirations. It unleashes a wide spectrum of creative skills ranging from writing to editing and even in designing the magazine.

One of the greatest landmarks of an educational institution is the emancipation of the Annual Magazine and I feel privileged to announce the launching of "Happening", the Annual Technical Magazine of the Department of Computer Engineering.



It would provide a platform for the budding engineers to express the technical side of their personalities and "Happening" would go on to become the voice of generations to come.

The essence of Engineering and Management education which has spread in India is a very positive sign not only to cater to domestic needs but provide manpower to the entire world and become the biggest technically trained community. Bharati Vidyapeeth College of Engineering is a venture contributing to this Endeavour

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## Head Of Computer Engineering Department

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### **DR. D.R.INGLE**

New technology is bringing opportunities along with the new skill set requirements and challenges. Globalization is bringing competitiveness in every domain. Engineers have to fit into the requirements of companies that recruit across the globe. With the massive, near exponential increases in the amount of data to be processed, we need to completely change our traditional 'sequential instruction execution' way of thinking.



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Here is a small note to all our readers from the chief editor and his co-editors which will help you readers to understand better.

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# Editor's Note



The world is moving very fast and new technologies are coming up every week. We need to be proactive and enthusiastic in learning about these cutting-edge tools and research. Buzz words Metaverse, Hadoop, Cloud Computing and Parallel Computing are slowly becoming pervasive and are the new revolution. The most important aim of students should be to absorb as many of these new technologies as they can.

They must explore, invent and innovate. Read up on algorithms, discuss them, and identify points where they can be improved. Research, collaborate, and excel. The students are our future and I believe that with students from BVCOE, the future does look bright.

**PROF. RAHUL PATIL**  
Editor-in-Chief

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**BITS  
AND  
BYTES**

2024-25



# Co-editor's Note

## Sneha Dubey

"Welcome to the Bits and Bytes Magazine! We're thrilled to share our latest issue with you, filled with inspiring stories, captivating images, and thought-provoking ideas from our talented contributors. As co-editors, we're proud to present a diverse range of perspectives and voices that showcase the creativity and ingenuity of our college community."



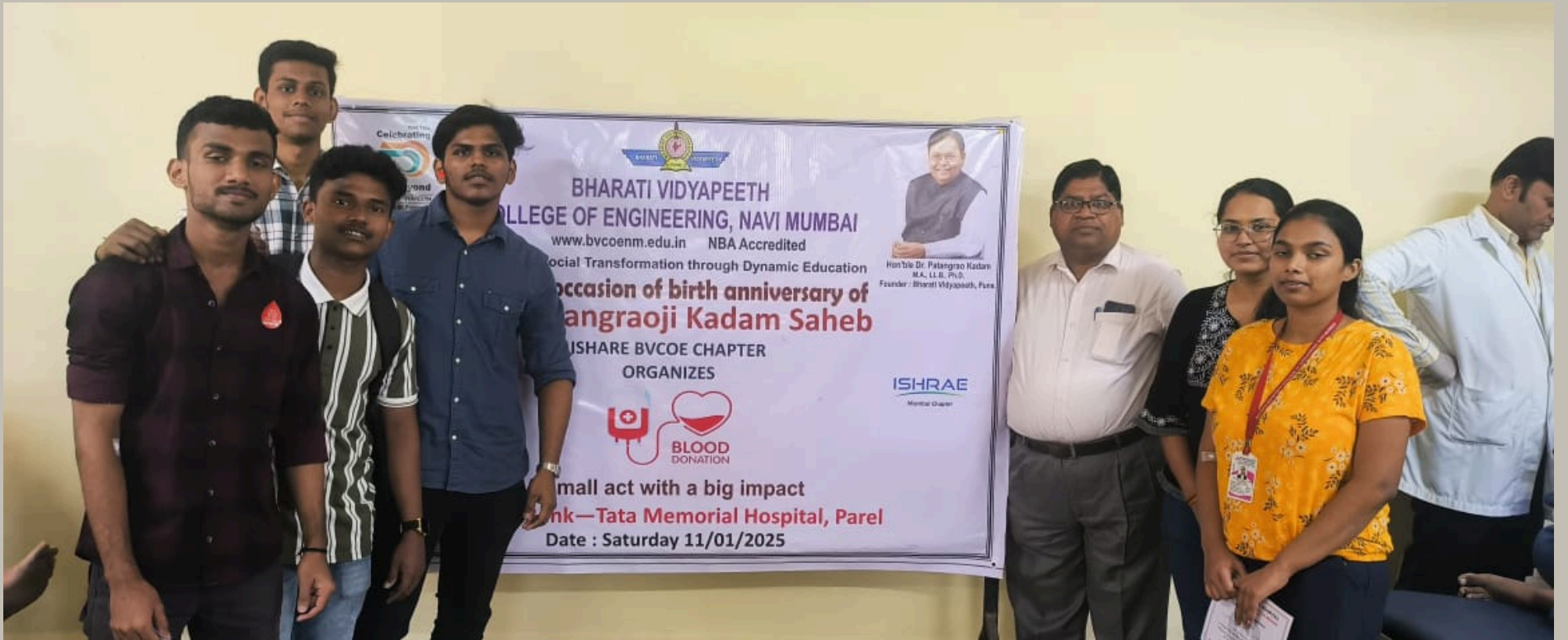
## Devanshi Parmar

Co- editor

### In this issue

Hello readers, hope you enjoy reading the entire magazine! It describes how the entire year went and what all creativity our department students have. We have tried to create a best collection of all the things by clubbing it together in this magazine. Thankyou !

# Blood Donation Camp



In a heartfelt tribute to the visionary founder Dr. Patangraoji Kadam Saheb, Bharati Vidyapeeth College of Engineering (BVCOE), Navi Mumbai, organized a Blood Donation Camp on 11th January 2025 to mark his birth anniversary. The event was a powerful reflection of Dr. Kadam Saheb's lifelong commitment to social welfare, education, and community service.

The camp was held within the college premises and witnessed overwhelming participation from students, faculty members, and staff, along with enthusiastic involvement from alumni and local residents. The event was conducted in collaboration with a reputed local blood bank, ensuring all medical protocols were strictly followed to ensure donor safety.

The event began with a short inauguration ceremony, which included a floral tribute to Dr. Patangraoji Kadam Saheb. College authorities spoke about his immense contribution to society, education, and the empowerment of youth across India. His vision of combining academic excellence with a sense of social responsibility was clearly echoed in this initiative.

Over 200 units of blood were collected during the camp, a testament to the compassion and civic sense among the BVCOE community. Volunteers from the college's NSS unit and other student bodies played a crucial role in the smooth management of the event—from pre-camp awareness drives to on-ground assistance during the donation process.

The Principal of BVCOE, in his address, stated, "This blood donation camp is not just an event; it's a reflection of the values instilled by our beloved founder. We are proud to uphold his legacy through actions that serve society."

Donors received certificates of appreciation and refreshments, and many expressed a desire to participate in similar drives in the future.

By turning the occasion of Dr. Patangraoji Kadam Saheb's birth anniversary into a life-saving mission, Bharati Vidyapeeth College of Engineering once again proved its commitment to both academic excellence and social responsibility.

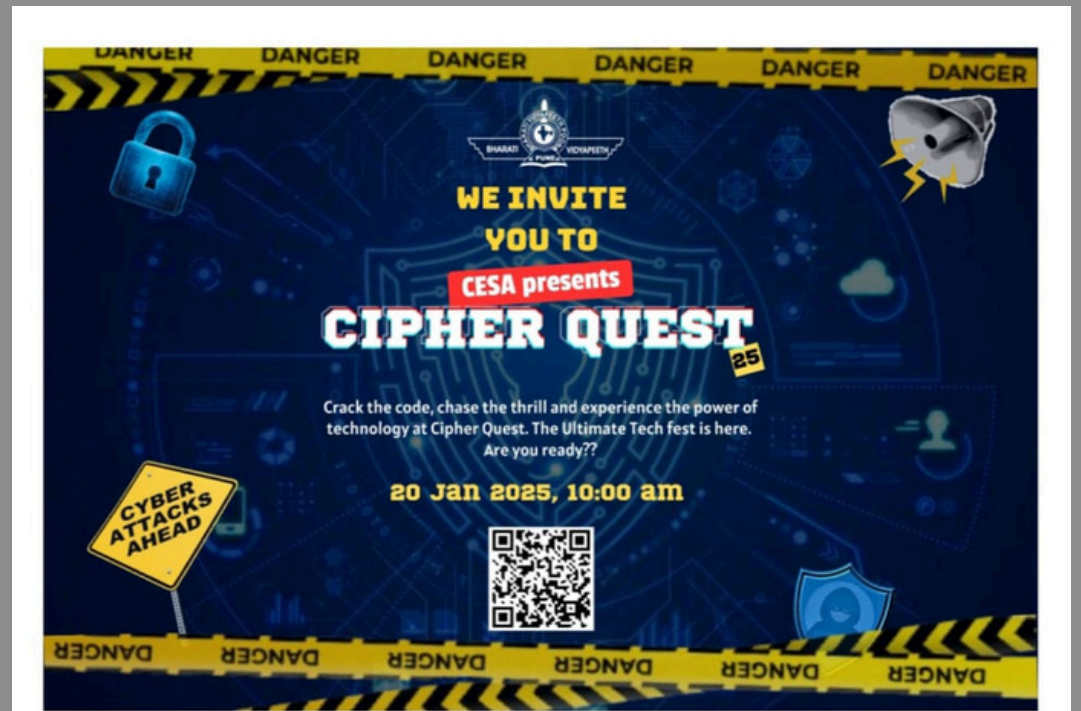
# CIPHER QUEST 25

Bharati Vidyapeeth College of Engineering, Navi Mumbai, came alive with the buzz of technology, talent, and teamwork as the Computer Engineering Students' Association (CESA) proudly hosted its flagship annual tech fest – Cipher Quest 25 on 20<sup>th</sup> January 2025.

This power-packed event

brought together budding technocrats for a day of learning, innovation, and fun. The fest was graced by distinguished dignitaries, adding immense value to the occasion.

**Guest of Honour** – Mr. Samadhan Manore, Deputy Director, CDAC, Mumbai, shared insights into the evolving tech landscape and encouraged students to be at the forefront of innovation.



**Chief Guest** – Hon. Amit Nikalje, IRS, Deputy Commissioner, Customs, Mumbai, addressed the gathering with an inspiring message on the role of technology in nation-building and urged students to be proactive contributors to the digital future of India.

As a mark of respect and gratitude, the CESA student members warmly felicitated the Chief Guest, Hon. Amit Nikalje IRS, and the Guest of Honour, Mr. Samadhan Manore, with mementos and floral bouquets. Dr. Sandhya Jadhav, Principal of Bharati Vidyapeeth College of Engineering, joined in welcoming the dignitaries and expressed her pride in the students' efforts. Following the inaugural ceremony, the esteemed guests were given a guided tour of the event venue by the CESA team. The students enthusiastically showcased each event zone, explained the concepts behind the competitions, and highlighted the creative efforts that went into organizing Cipher Quest 25. The guests interacted with participants, appreciated the innovative ideas, and commended the students for their professionalism and passion.





The event officially kicked off at 10:00 AM and featured an electrifying line-up of competitions that tested participants' skills across design, coding, general knowledge, strategy, and gaming:



🎨 **FigJam – Unleash the Designer Within**

🧠 **Quiz Master – Think Fast, Think Smart**

⚽ **Human Foosball – Play Life-Size!**

🕵️♂️ **Scavenger Hunt – Decode, Discover, Dominate**

💻 **Code Crack – Brain Meets Code**

🎮 **BGMI Tournament – Battle of the Best**



# DAYS OF SPORTS

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In a refreshing display of unity, enthusiasm, and departmental spirit, the faculty members of the Computer Engineering Department actively participated in Abhiyaan Sports 2025 on 3<sup>rd</sup>, 4<sup>th</sup> & 5<sup>th</sup> February 2025 by cheering for their students during various sporting events. Their presence on the sidelines turned the competitive matches into moments of encouragement, bonding, and shared celebration.

As teams from the Computer Department took the field across events like cricket, football, volleyball, and tug of war, faculty members gathered in full strength to watch the matches, cheer for their students, and experience the pulse of student life beyond the classroom. Their spirited presence not only boosted morale but also deepened the student-teacher bond.

From waving flags and clapping for every boundary and goal, to offering friendly strategy tips during breaks, the faculty showcased a different side of themselves—one that was vibrant, approachable, and full of team spirit.



# ALUMNI MEET

The Computer Engineering Department of Bharati Vidyapeeth College of Engineering (BVCOE), Navi Mumbai, hosted its much-awaited Alumni Meet on 8th February 2025, welcoming back its proud graduates for an evening filled with nostalgia, networking, and renewed connections.



The event brought together alumni from various batches who are now making their mark across diverse domains—from tech giants and startups to academia and public service. The campus buzzed with joy and heartfelt reunions as former students reconnected with peers, professors, and the institute that shaped their early careers.

The meet concluded with a group photograph, mementos, and a networking dinner, leaving everyone with a sense of belonging and pride. It wasn't just a reunion—it was a celebration of legacy, shared dreams, and the enduring spirit of the Computer Engineering family at BVCOE.



# NGO VISIT

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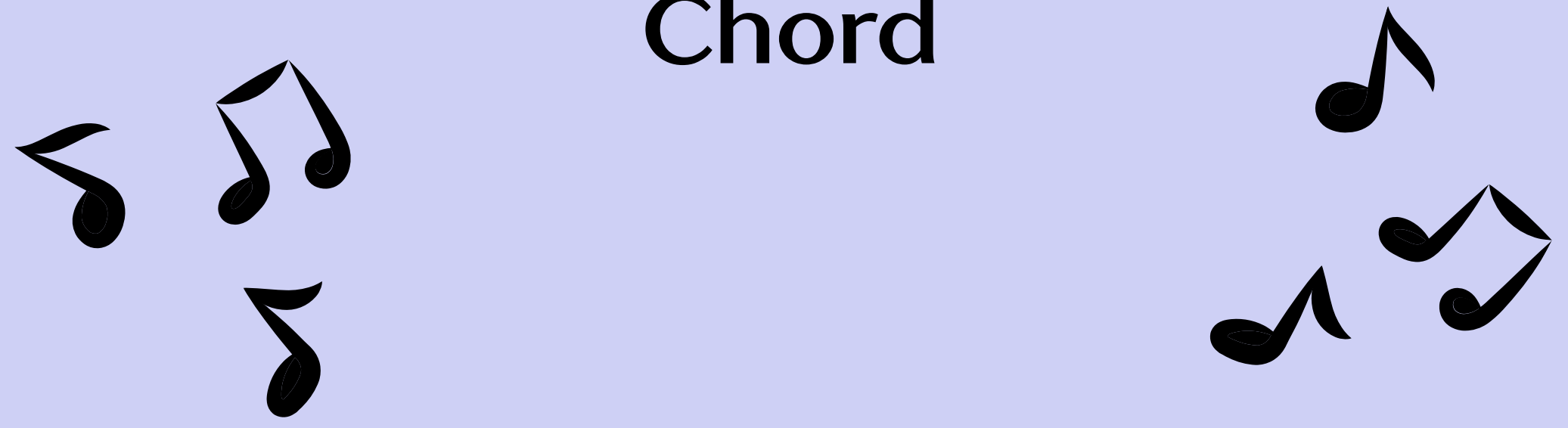
In a heartwarming community outreach initiative, a team of students and faculty members from Bharati Vidyapeeth College of Engineering, Navi Mumbai visited Dhamole Village School on 15th February 2025, in collaboration with a local NGO.



The visit aimed to spark curiosity and share knowledge with young school children through fun, interactive learning sessions. Faculty members actively participated—not only guiding the educational sessions—but also interacting with the children, helping organize activities, and encouraging open conversations about learning and dreaming big. Their presence added warmth, structure, and a deeper connection to the visit. The visit left a lasting impression on both the children and the visiting team. It was a touching reminder that when students and teachers come together outside the classroom, they can truly create moments that matter.



# Crescendo Strikes the Right Chord



A wave of pride and celebration swept through Bharati Vidyapeeth College of Engineering, Navi Mumbai, as its official music band, Crescendo, secured first position at the prestigious Inter-College Music Competition organized by Vasantdada Patil Pratishthan College of Engineering and Visual Arts on 11th March 2025.

Competing against several talented bands from across Mumbai, Crescendo captivated the judges and audience alike with their electrifying performance,



soulful vocals, and seamless instrumental coordination. Their set included a powerful blend of classic rock, indie fusion, and a touch of desi rhythm—demonstrating not just technical skill but also musical versatility and stage presence.

# BUILDING BRIDGES: PARENT-TEACHER MEETING



The Parent-Teacher Meeting (PTM) for the Academic Year 2024–25 (Even Semester) was successfully held on 22nd March 2025 at Bharati Vidyapeeth College of Engineering, Navi Mumbai.

Organized under the guidance of Dr. D.R. Ingle, Head of the Department, and Dr. Sandhya Jadhav, Principal, the meeting aimed to foster communication between parents and faculty, discuss academic progress, and share suggestions for student development. A total of 53 parents attended, representing all three classes—22 from SE, 18 from TE, and 13 from BE.

Dr. D.R. Ingle opened the meeting with a detailed presentation on the department's achievements, including faculty milestones, student results, placement progress, and collaborations with institutes like C-DAC and IIT Bombay.



Class advisors facilitated parent-teacher interactions, focusing on student strengths and areas of improvement.

Parents provided constructive feedback, recommending mandatory workshops, career-focused mentorship, and more industry-oriented training. Notable suggestions included increasing project work dedication and aligning guidance with students' interests and industry needs.

# Igniting Innovation



In an inspiring move to foster innovation and hands-on learning among budding technocrats, Bharati Vidyapeeth College of



Engineering, Navi Mumbai, organized a two-day Hackathon exclusively for First-Year Engineering students on 28th and 29th March 2025. The event aimed to introduce freshers to the world of real-time problem-solving, collaboration, and creative thinking.

The Hackathon brought together enthusiastic first-year students from all branches, working in teams to tackle real-world challenges through technology-driven solutions.



Over the course of two days, participants presented solutions spanning themes like smart city applications, health tech, education, sustainability, and automation. On the final day, each team presented their solution to a panel of judges comprising faculty and industry professionals.

The top teams were awarded prizes and certificates, while all participants received appreciation for their enthusiasm and effort.

