



Vision of the Department

To be recognized as a Centre of Excellence in the field of Computer Engineering where learners are nurtured in scholarly environment to evolve into competent Computer Engineering professionals to benefit society

Mission of the Department

1. Evolve a curriculum which emphasizes on strong engineering fundamentals with the flexibility to choose advanced courses of interest and gain exposure to tools and techniques in Computer Engineering.
2. Encourage a teaching-learning process in which highly competent faculty share a symbiotic association with the institutes of repute.
3. Facilitate creation and dissemination of knowledge through a digitally-enabled learning environment.
4. Develop academic and infrastructural facilities with modern equipment and other learning resources and encourage reciprocal sharing with other institutes through networking.
5. Establish a centre of excellence to enhance academia – industry partnership and work on collaborative projects.

Programme Educational Objectives (PEO)

1. To enable the pursuit of knowledge in the field of Computer Engineering and contribute to the profession and employability of the students.
2. To engage in research, generate the employment through entrepreneurship and work effectively in multidisciplinary environment.
3. To understand the human, social, ethical and environmental context of their profession and contribute positively to the needs of individuals and society at large.

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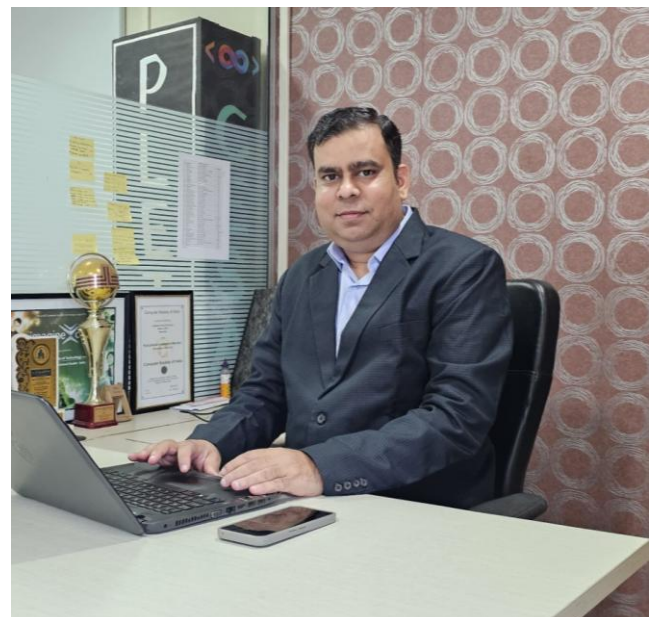
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HEAD OF DEPARTMENT, COMPUTER ENGINEERING

It is a pleasure to present this edition of BYTES, reflecting the department's continued focus on academic excellence, research, and application-oriented learning. This issue highlights faculty contributions through research, conferences, and continuous upskilling, along with active student participation in technical initiatives. Flagship events such as TEDxVIT 2026, along with various activities organized by CSI-VIT and CESA, including hackathons, technical competitions, cloud-native sessions, and workshops on emerging technologies, have significantly strengthened experiential learning and industry exposure. These initiatives not only reinforce core engineering concepts but also promote innovation, collaboration, and real-world problem-solving. The achievements of our students and alumni further reflect the strength of our academic ecosystem and learner-centric approach. We remain committed to nurturing technically competent and adaptable engineers ready to address evolving technological challenges.

I congratulate the editorial team and extend my best wishes to all readers.





Logic will get you from A to B. Imagination will take you everywhere
— Albert Einstein



DEPARTMENTAL UPDATES

- Dr. Suja Jayachandran served as a Resource Person for Session 1: Introduction to AI (27 January 2026) during a 10-day ICSSR-sponsored Capacity Building Program, “AI Foundation for Educators,” organized by R.A. Podar College, Mumbai.
- Dr. Suja Jayachandran served as a Reviewer for the 8th IEEE International Conference on Emerging Smart Computing and Informatics (ESCI-2026).
- Dr. Amit K. Nerurkar served as a Reviewer for the IEEE International Conference on Communication, Computing and Emerging Technologies (2026).
- Dr. Umesh Kulkarni served as a Session Chair for the IEEE International Conference on Communication, Computing and Emerging Technologies (2026). Dr. Umesh Kulkarni actively participated in Faculty Development Programs on emerging applications of AI in Cyber Security and Healthcare, enhancing his interdisciplinary expertise .He has contributed to academic research as a co-author in an international journal publication focusing on advanced optimization techniques for cybersecurity

TEDxVIT 2026: Touching the Soul: March 28, 2026

The 6th edition of TEDxVIT wasn't just an event... it was an emotion Ideas echoed. Stories stirred hearts. Moments stayed. This year didn't just continue the legacy—it took TEDxVIT 2026 one step ahead of all its past editions. What unfolded today was nothing less than magic—made possible by an incredible community coming together.

A heartfelt thank you to our inspiring speakers: Devendra Pai, Mohinee Singh, Amrut Bang, Dr. Nupur Kapoor Nerurkar, Kavya Sedani, Amrutha Langs, Anand Shinde, Mugdha Chaphekar, Suyog Bhandare, Komal Waghmare, Vinita Kaur Chiragia, Neelanshi Singh, and Shadaj Pancham. Each one of you truly made us feel, reflect, and connect.



DR. RAVINDRA SANGLE
ASSOCIATE PROFESSOR



EDUCATION QUALIFICATION:

PhD Computer Engineering

WORKING EXPERIENCE:

20 YEARS

AREA OF SPECIALIZATION:

Graphics
ToC
Compiler Construction
Probabilistic Graphical Model
Software Engineering and Testing

Department Staff

DR. PRASHANT LOKHANDE
PROFESSOR



EDUCATION QUALIFICATION:

PhD Computer Engineering

WORKING EXPERIENCE:

25 YEARS TEACHING
4 YEARS INDUSTRY

AREA OF SPECIALIZATION:

Digital Forensics
Cyber Security



The function of education is to teach one to think intensively and to think critically

— Martin Luther King Jr.



Student's Speak Huzan Shroff

Hello! I am Huzan Shroff, a student of Vidyalankar Institute Of Technology studying in Second Year Computer Engineering.

I started my academic journey at VIT in September 2025 as a Direct Second Year(DSY) student. I completed my diploma from Vidyalankar Polytechnic where I served as a Class Representative for 3years and the Technical Head in my Final Year, yes you could say I was already part of the "Vidyalankar Family" but that did not stop me from being nervous about starting over in a new college. The reality could not be farther from this, every single person at VIT was so welcoming. They were the epitome of grace! Right from the staff for the admission process to our amazing faculty of Computer Engineering Department, everyone made the transition feel smooth and natural. I would like to extend my heartfelt appreciation to my CMPN semester 3 teachers - Suvarna Ma'am, Swapnil Sir, Deshpande Sir, and Khimya Ma'am who always went the extra mile for our sake. It is due to their efforts that I could cope with joining in the middle of the semester. Thanks to Suvarna ma'am I got to be a part of the "Smart Light Podium" project under the guidance of our director Milind Sir. This experience helped me to improve my technical skills and consequently sharpened my leadership and teamwork skills. I also joined the IEEE VIT Student Branch and hope to be more proactive in the future and use my skills for the benefit of my department and my college. I look forward to my remaining time in VIT!

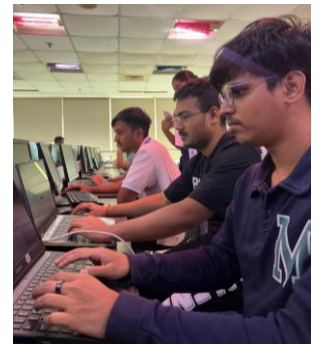


Huzan Shroff
SE CMPN-B

Huzan Shroff (SE CMPN-B)

CESA-VIT Flagship: Plethora March 13, 2026

A fast-paced research and innovation challenge where teams identified research gaps, proposed solutions, and presented them within a limited time using AI tools. The event enhanced research skills, critical thinking, time management, and effective pitching under pressure.



CSI-VIT Flagship: Enthusia March 13, 2026



CSI-VIT organized five dynamic events—Bug Auction, Mindmare, Parallax, Grid Rush, and Design Paradox—during Enthusia 2026, covering domains like debugging, coding, logical problem-solving, strategy gaming, and UI/UX design. These events provided a balanced mix of technical challenges and interactive learning, where participants worked in teams to solve problems, think critically, and innovate under time constraints. While coding events enhanced algorithmic and debugging skills, others focused on strategy, creativity, and design thinking. Overall, Enthusia 2026 served as a vibrant platform promoting teamwork, analytical ability, creativity, and healthy competition among students.



This is not the end, this is not even the beginning of the end—but it is,
perhaps, the end of the beginning
— Winston Churchill



KNOW AN ALUMNUS: Priyal Dupare

Let me paint you a picture of where it all began. A girl from OHU — Out of Home University(Chandrapur), which is just a dramatic way of saying she had absolutely no idea what she was walking into — standing at the gates of Vidyalkar Institute of Technology, heart hammering, palms sweating, wondering if she had made the biggest mistake of her life. Being a COVID batch student already meant my relationship with college life was built on muted microphones, frozen Zoom screens, and the existential dread of not knowing whether your internet or your confidence would cut out first. So when I finally arrived on an actual campus, in an actual city I didn't know, surrounded by faces I had never seen, the walls felt very, very tall. Would I manage? I kept asking myself. No one knows me here. No shoulder to lean on. Oh, how beautifully wrong I was. Vidyalkar Institute of Technology had a way of filling every gap I walked in with.



Priyal Dupare

I found my way to Nerurkar Sir's cabin more times than I can count not because I was in trouble, but because I was drowning in self-doubt and every single time I walked out, I stood a little straighter. Amit Aylani Sir, Divya Ma'am left fingerprints on the way I think and problem-solve to this day. And then there was Prakash Parmar Sir, who deserves his own sentence entirely — he didn't just teach me, he guided me, believed in me, and stood beside me as I co-authored and published a research paper in my final year.

Alongside this, hackathons, debates, and internships were shaping both my technical depth and my ability to hold a room and slowly, without me even noticing, Vidyalkar was building someone I didn't yet recognize as myself. That someone truly emerged when I became Publicity Head at CSI-VIT and Deputy Class Representative —two roles that cracked me open in the best possible way.

The girl who was once terrified of her own opinions was now designing posts at midnight, setting up stages at GATE 2, living the beautiful chaos of Shobayatra, and standing between frustrated students and Monday deadlines trying to make everyone feel heard. Leadership isn't a title — I learned that here, in the middle of all that beautiful mess. And while I was doing all of this, I was also quietly side-questing —building Prisa's Hive, a startup focused on marketing and SaaS solutions, something the first-year Priyal would never have dreamed of attempting.

The resilience, the discipline, the art of thinking differently — none of it came from nowhere. It came from these halls, these people, and yes, even the Computer Networks, Database, Cloud Computing, TOC, and Algorithms lectures I half-groaned through, which I now live by every single day as a Data Engineer. Two years ago, I walked out of these gates. Today, I sit in meetings and speak without fear, build real solutions, and carry every professor's lesson like armor into every challenge I face. The strangers who became friends during late-night project crunches are people I still count. The faculty I once visited out of doubt are people I still call when I need guidance. And the city that once felt so unfamiliar? It gave me back to myself — only better, only braver. To the students reading this in the middle of a semester that feels endless — look around, because college doesn't come back. The people beside you, the professors willing to sit with you, the late nights and corridor conversations — they are happening right now. Use all of it.

And don't panic about the path ahead, because here is the most freeing truth about an engineering degree — an engineer can do anything and everything. The paths will differ, but the foundation you build here will be the same one that holds everything else up. So build it well. This is your space. To Vidyalkar — you were never just a college to me. I walked in terrified. I walked out ready, for where the life takes next!

--Priyal Dupare



Learning gives creativity, creativity leads to thinking, thinking provides knowledge, knowledge makes you great
— A.P.J. Abdul Kalam



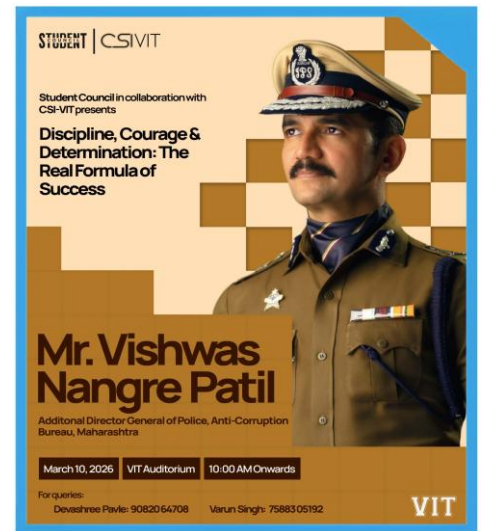
CSI-VIT Cloud Native
February 7, 2026



The Cloud-Native Inaugural Meet, organized in collaboration with the CNCF Cloud Native Mumbai Community, served as a highly insightful platform for students to explore modern cloud and DevOps practices. The event featured engaging expert sessions by Sonal Gaud, Tapas Nandi, and Yash Garudkar, who shared their industry experience and practical knowledge on key cloud-native concepts. Participants gained valuable insights into observability, Kubernetes scaling, and Infrastructure as Code (IaC) through real-world examples, live discussions, and use-case-driven explanations.

CSI-VIT Discipline, Courage and Determination
March 10, 2026

The motivational address by Mr. Vishwas Nangre Patil, Additional Director General of Police, Anti-Corruption Bureau, Maharashtra, was conducted at the VIT Auditorium in collaboration with the Student Council and CSI-VIT. He shared valuable insights on discipline, courage, and determination, drawing from his distinguished career in public service and leadership. The session was highly inspiring, and the interactive interaction with students encouraged them to develop a strong sense of responsibility, resilience, and commitment toward their personal and professional goals.



CSI-VITxTSECxAugenblick Hackathon
March 12-14, 2026



The CSI-VIT x TSEC x Augenblick Hackathon was a 48-hour online innovation challenge that brought together students to collaborate and build impactful solutions across Web Development, AI & Data Science, and Social Cause domains. Working in teams, participants engaged in continuous ideation, design, and rapid prototyping, applying their technical knowledge to solve real-world problems. The event fostered innovation, teamwork, and problem-solving skills, while also helping students gain hands-on experience in development.

Guided by mentors and evaluated by industry experts, participants received valuable feedback that enhanced their learning experience. The hackathon concluded with the recognition of top-performing teams, who were awarded internship opportunities with Augenblick Consulting LLP, providing a strong platform for industry exposure and career advancement. Overall, the event served as a dynamic learning experience, encouraging students to think creatively, work collaboratively, and build solutions with real-world impact.



Knowledge speaks, but wisdom listens
— Jimi Hendrix



CESA-VIT AGENTX Summit: Workshop on Agentic AI
28/01/2026

An interactive workshop introducing Agentic AI using LangChain and Google Generative AI APIs, where participants built a GenAI SQL agent capable of converting natural language into SQL queries. The session focused on real-world AI workflows, tool integration, and safe database automation, providing hands-on exposure to intelligent agent design. Participants gained a strong understanding of Agentic AI fundamentals and how LangChain enables the development of intelligent agents capable of reasoning, planning, and autonomously using tools.



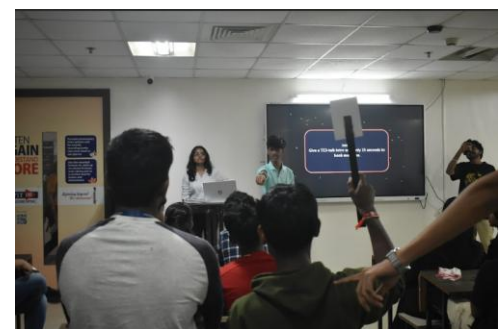
CESA-VIT Stellar Quest
10/02/2025



A campus-wide tech-based treasure hunt where teams solved logical and technical puzzles using QR-based checkpoints. The event emphasized problem-solving, teamwork, and real-time decision-making by blending digital interaction with physical navigation across campus. Participants will walk away with improved teamwork and communication skills developed under time-sensitive conditions. The event provides a unique platform for students to sharpen their analytical thinking and technical decoding abilities outside of a traditional classroom.

CESA-VIT Gravity Trails
11/02/2026

A multi-round competitive event testing cognitive ability, communication, and teamwork through activities like maze-solving, quizzes, charades, and dares. It challenged participants to perform under pressure while balancing analytical and spontaneous thinking. Round 1: Focused on speed and precision—teams solved a maze (shortest & longest paths) and completed a non-verbal guessing task. Round 2: Top 12 teams advanced to finals, featuring a rapid-fire quiz and a series of physical/social challenges.



CESA-VIT HACKFEST: INNOV8 TMRW
07/03/2026



A multi-stage hackathon involving idea submission, mentorship, evaluation, and final pitching, where teams developed solutions to real-world problems. The event promoted innovation, teamwork, technical development, and presentation skills, culminating in competitive final presentations judged by industry experts. The hackathon provided participants with valuable exposure to real-world problem solving, teamwork, and structured project development. Through ideation, mentorship, evaluation, and final pitching, students gained experience in transforming an idea into a well-presented solution.



Artificial intelligence is the new electricity
— Andrew Ng



STUDENT ARTICLE BY MRUDLA PATIL: Intelligent Elevator System: Enhancing Safety, Efficiency & Reliability

“Automation applied to an efficient operation will magnify efficiency.” — Bill Gates

Every day, millions of people step into elevators without thinking about the technology that keeps them moving safely between floors. In modern cities filled with high-rise buildings, elevators are no longer just machines—they are lifelines of urban mobility. Yet traditional elevator systems still rely on fixed rules and basic controls, which can lead to overcrowding, delays, and sudden breakdowns.

As buildings grow taller and smarter, elevator systems must evolve as well. This need has led to the rise of Elevator AI, where artificial intelligence transforms conventional lifts into intelligent systems capable of learning, predicting, and adapting in real time. Instead of simply responding to button presses, AI-enabled elevators analyze passenger flow, monitor cabin conditions, and make decisions that improve safety and efficiency.



Mrudula Patil
TE-B

One situation that inspired this idea is a common experience in crowded buildings: an elevator nearly reaches its weight limit, yet continues accepting passengers until an overload alarm suddenly stops the system. This not only causes inconvenience but also creates safety risks. By using AI and expert system logic, elevators can anticipate such situations and act before problems occur.

Why Intelligent Elevator Systems Matter?

The impact of Elevator AI becomes clear in everyday urban environments:

- Passenger Safety: AI systems can detect when the elevator is close to its weight limit and prevent unsafe conditions before they occur.
- Efficient Movement: Intelligent scheduling reduces waiting time and ensures smoother passenger flow during peak hours.
- Predictive Maintenance: Sensors monitor elevator components and identify faults early, reducing unexpected breakdowns.
- Smart Infrastructure: AI-enabled elevators support energy-efficient and sustainable building operations.

Key Innovations in Elevator AI

1. Dynamic Overload and Smart Call Management

Traditional elevators react only after exceeding the weight limit. In contrast, an intelligent system can recognize when the cabin is approaching maximum capacity and temporarily pause new hall calls from outside floors. At the same time, passengers already inside can exit normally. Once the weight decreases, the system resumes operation automatically.

2. Predictive Maintenance Using Sensor Data

Elevator components such as motors, brakes, and doors gradually show signs of wear. AI systems analyze data like vibration, temperature, and energy consumption to detect potential failures before they happen. This reduces downtime and ensures reliable operation in busy buildings.

3. Cybersecurity for Connected Elevators

Modern elevators are increasingly connected to building networks and smart systems. Without proper protection, they can be vulnerable to unauthorized access or false commands. A cybersecurity layer can verify signals, detect suspicious activity, and maintain safe control of the elevator system.

Conclusion: Elevator AI represents a shift from traditional lift systems to intelligent, adaptive technology. By improving safety, efficiency, and reliability, it supports the growing needs of modern cities. Smart elevators will play a vital role in the future of urban infrastructure.

UPCOMING EVENTS

- **GRADUATION DAY WILL BE HOSTED IN APRIL 2026**
- **DEGREE DISTRIBUTION WILL BE HOSTED IN APRIL 2026**
- **PROJECT COMPETITION WILL BE HOSTED IN APRIL 2026**
- **CSI-VIT WILL HOST CXO MEET IN COLLABORATION WITH CYBERFRAT**

“
Failure is simply the opportunity to
begin again, this time more intelligently
— Henry Ford
”

THE
EDITORIAL TEAM

DR. AMIT K. NERURKAR
Chief Editor