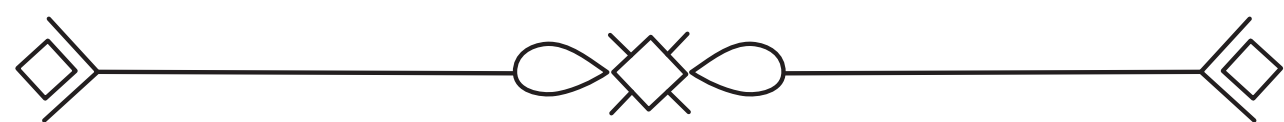
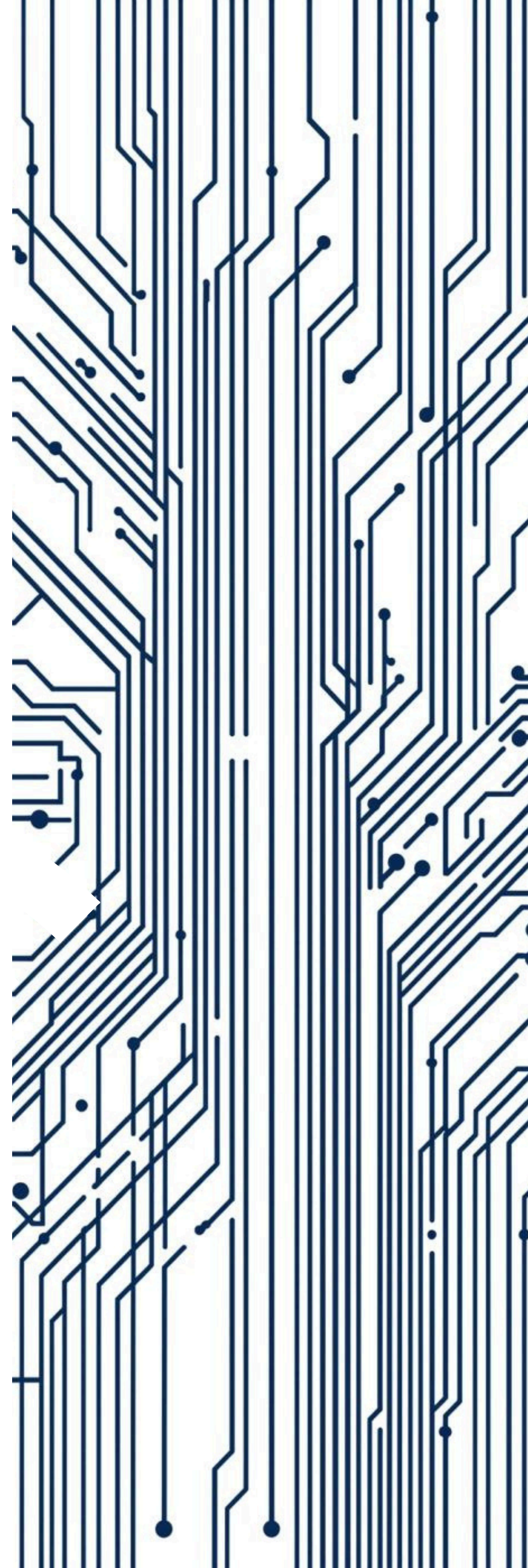




BITS AND BYTES



AI UNLEASHED



Department of Computer Engineering
December 2025 issue

(Odd Semester)

SR NO**TITLE****PAGE NO**

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VISION & MISSION

- To be centre of excellence in the field of computer engineering providing value based quality technical education,
- To impart and inculcate both theoretical as well as practical knowledge students.
- To develop competent professionals who are proficient in analysis, design and implementation of broadly-defined computer problems.
- To create confident youth with a sense of duty, discipline and responsibility

PROGRAM EDUCATIONAL OBJECTIVES

- Provide socially responsible, environment friendly solutions to Computer engineering related broad-based problems adopting professional ethics.
- Adapt state-of-the-art Computer engineering broad-based technologies to work in multi disciplinary work environments.
- Solve broad-based problems individually and as a team member communicating effectively in the world of work.

PROGRAM OUTCOMES

- Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.
- Problem analysis: Identify and analyse well-defined engineering problems using codified standard methods.
- Design/development of solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.
- Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.
- Engineering practices for society, sustainability and environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.
- Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.
- Life-long learning: Ability to analyze individual needs and engage in updating in the context of technological changes.

PROGRAM SPECIFIC OUTCOMES

- Computer Software and Hardware Usage: Use state-of-the-art technologies for operation and application of computer software and hardware.
- Computer Engineering Maintenance: Maintain computer engineering related software and hardware systems.

HOD'S DESK



Mr. Sanjay Wankhade

Founded in 2010, the Department of Computer Engineering has established itself as a distinguished hub for Diploma-level Computer Engineering education in Maharashtra. Inspired by the institute's vision –“To be a centre of excellence in the field of Computer Engineering by providing value-based quality technical education”—the department consistently strives for excellence in academics and technical innovation.

The department is supported by a team of dedicated faculty members who engage in interdisciplinary collaboration and contribute to significant research work. Their efforts cultivate a stimulating academic atmosphere that sharpens students' analytical thinking and practical abilities, preparing them to solve real-world problems effectively.

Emphasizing comprehensive development, the department nurtures creativity, logical reasoning, and strong problem-solving skills. Modern laboratories, high-end computing infrastructure, and advanced software resources enrich the learning experience. Additionally, regular workshops, seminars, hackathons, and industry engagements keep students updated with emerging technologies and industry practices.

Through active CSI Chapter initiatives, the department organizes workshops, expert talks, technical contests, skill development programs, industrial visits, and internship opportunities. These activities strengthen the connection between academia and industry while promoting both technical competence and essential soft skills.

Editorial

Artificial Intelligence has surged from lab experiments to real-world execution. The theme “AI Unleashed” captures this pivotal era, where generative ecosystems boldly reshape industries, governance, education, and human creativity.

Trailblazers spearhead the charge: OpenAI's ChatGPT empowers real-time content creation, code generation, and problem-solving for millions. Google's Gemini fuses AI reasoning into search and tools like Docs. Anthropic's Claude prioritizes safety; Meta AI transforms billions' interactions on WhatsApp and Instagram; DeepSeek and Perplexity AI deliver precise, real-time insights.

At their core, Large Language Models (LLMs)—vast neural networks trained on global data—master context, human-like language, and intricate reasoning. AI transcends screens, revolutionizing manufacturing via "destructive printing" (rapid AI-optimized 3D prototyping that cuts waste), plus healthcare diagnostics, financial forecasting, legal analysis, and personalized learning—all augmenting human ingenuity.

India rises as a powerhouse at forums like the AI Summit, blending innovation with ethics, bias reduction, privacy, and job strategies.

AI redefines how we think, create, and compete. Harness it ethically to lead—it's now foundational.

ACADEMIC RANKERS

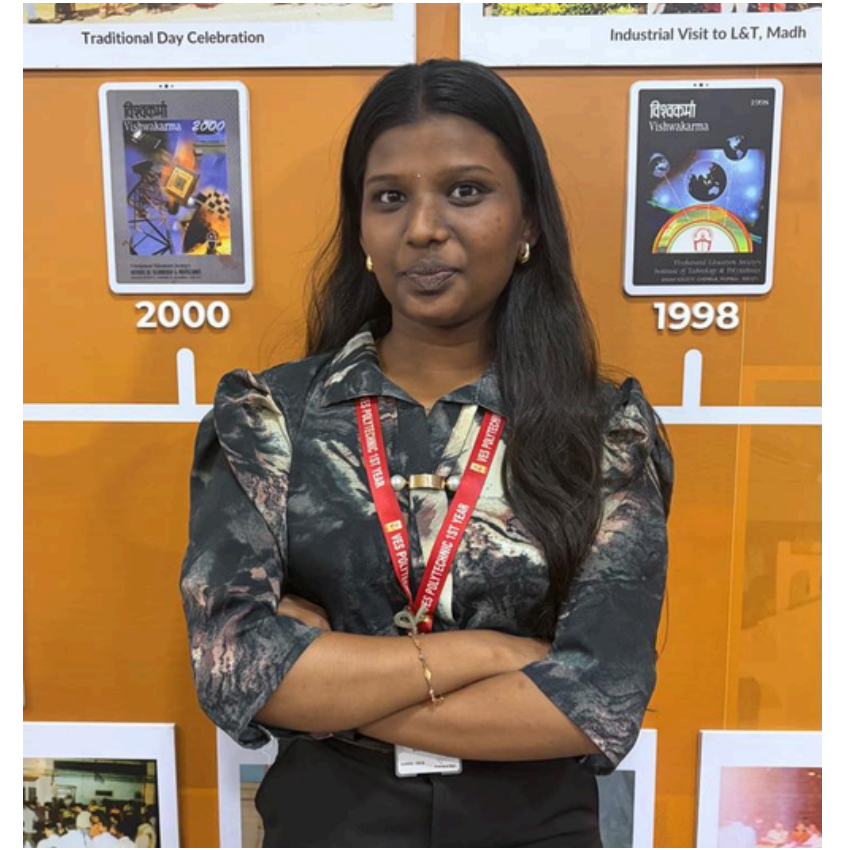
CO1K-A



SHIVDHI ABHISHEK CHETNANI
93.65%



PANTHI VIKAS SHAH
88.94%



MANVI SANTOSH GURAV
88.47%

CO3K-A



NIRVI JINIT CHOTHANI
94%



POOJARY ISHIKA VISHWANATH
93.77%



SAPARIYA SHREYA ROHIT
93.53%

CO5K-A



KAZI IBRAHIM IRFAN
98%



SANGLE RAJ JALINDRANATH
96.94%



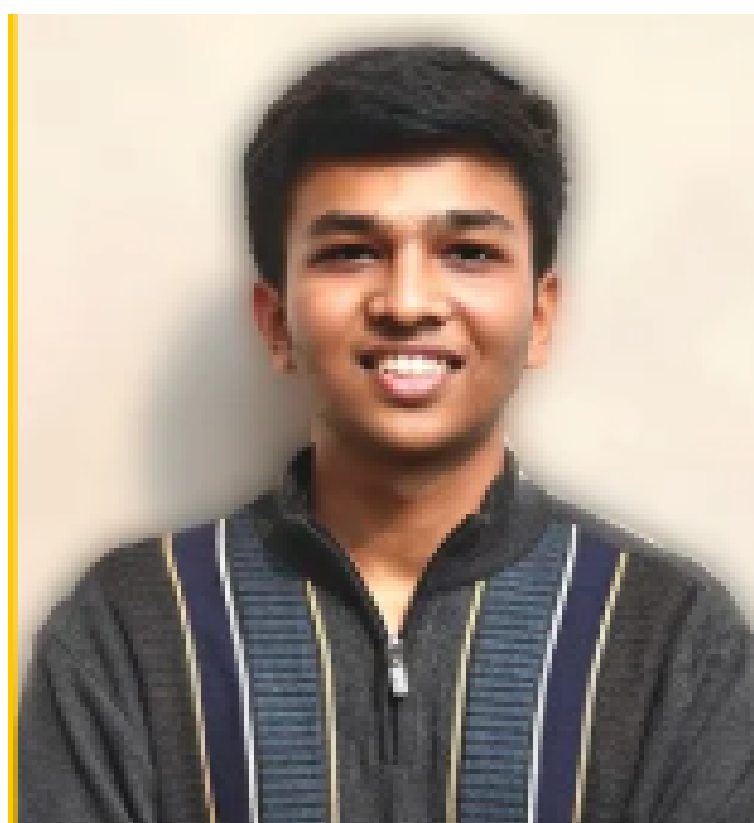
KAZI HASAN ARIF
96.82%

ACADEMIC RANKERS

CO1K-B



NIKET KARUNKAR SHETTY
89.77%



SARODE HARSH DILIP
88.12%

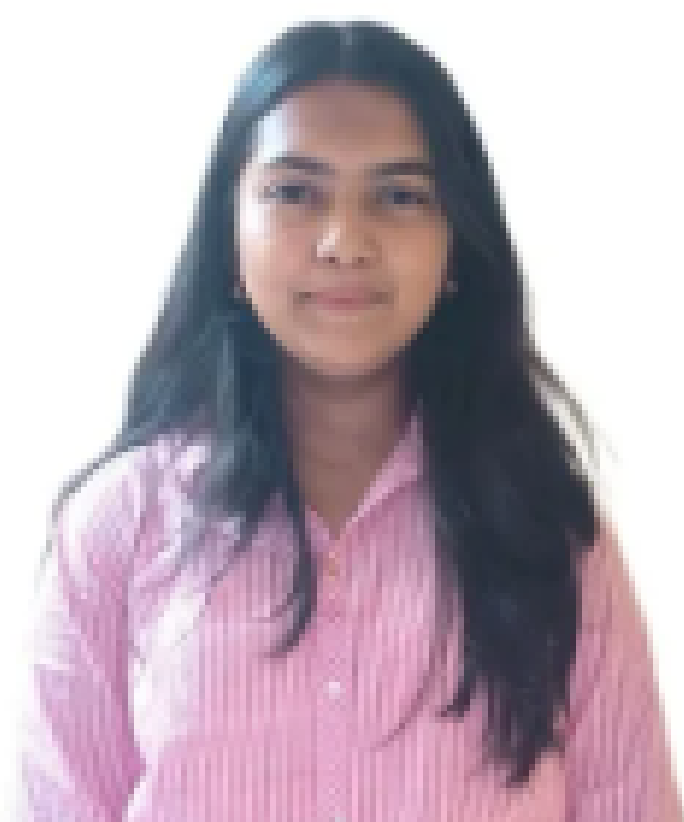


**RATHOD BALVENDER
KAUR RAVINDRA SINGH**
86.59%

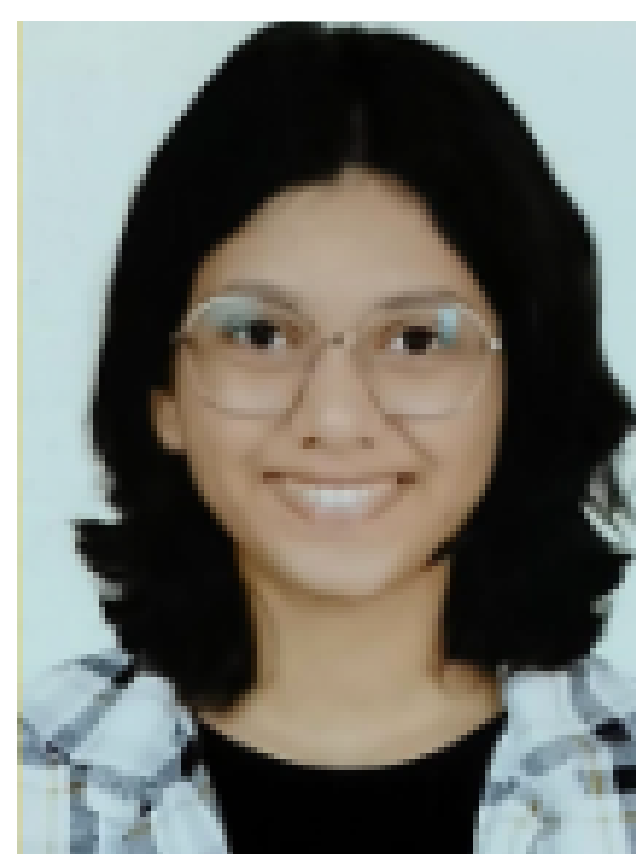
CO3K-B



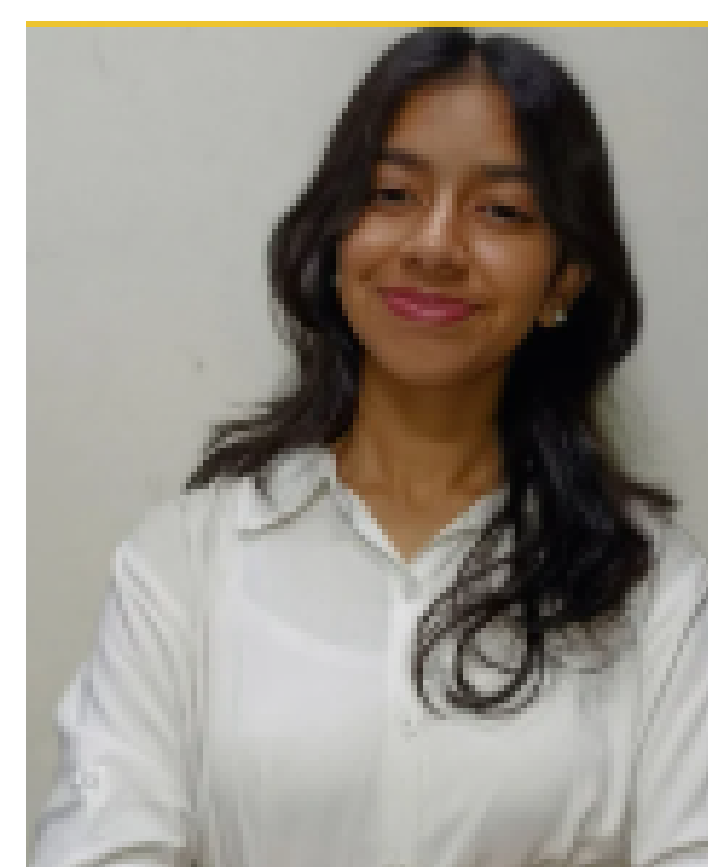
**GANGARAMANI RHEA
DILIP**
94.82%



BANKAR SIDDHI MAHESH
91.65%



**KHARE RUSHITA
ASHOK**
91.65%



**MANANI AARYA
AMITI**
91.29%

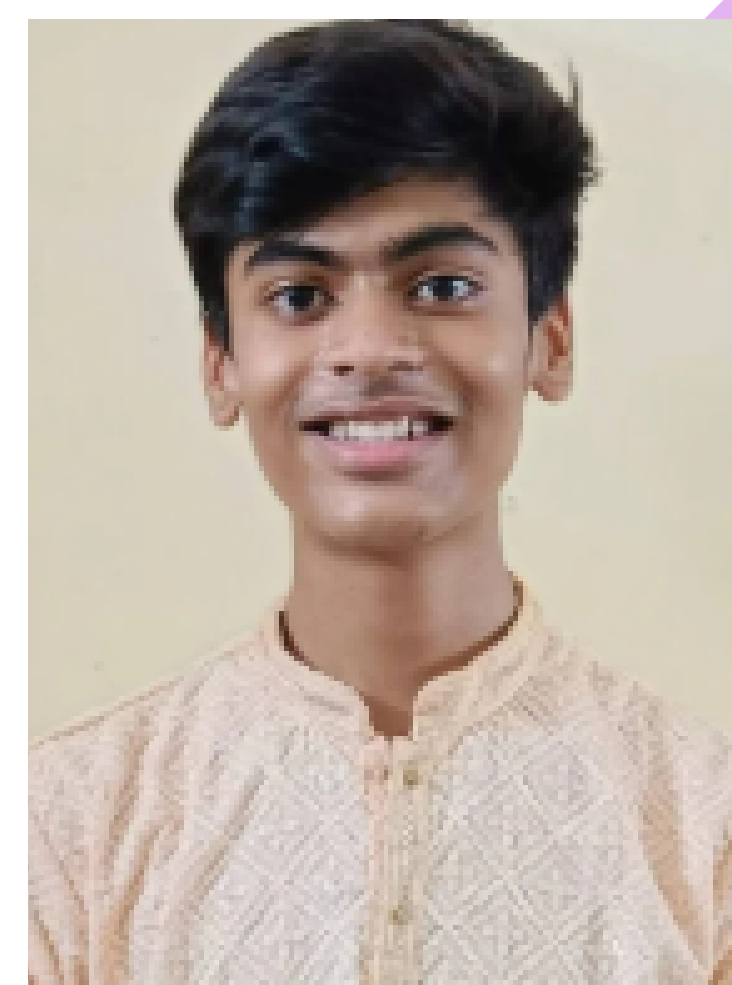
CO5K-B



**AHALE ISHWARI
SHUKLAKUMAR**
96.12%



**GOSALIA VEDANSHI
JAYESH**
95.53%



**PINGALE SMIT
SANTOSH**
95.29%

STUDENT ACTIVITIES

NATIONAL SERVICE SCHEME (NSS)



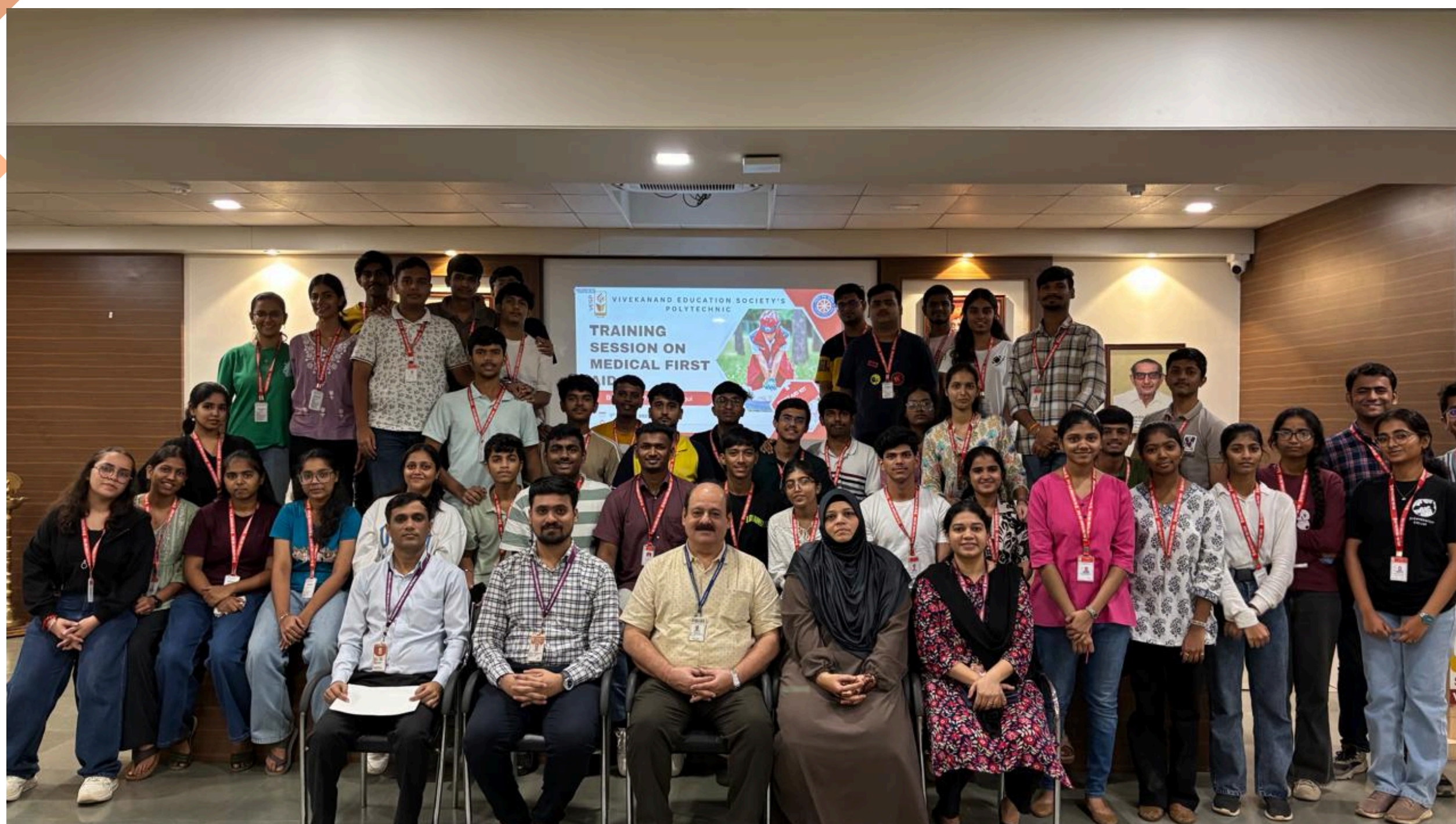
1) Medical First Aid Workshop: VES Polytechnic x Inlaks Hospital

On October 7, 2025, VES Polytechnic College organized a comprehensive Medical First Aid training session to enhance campus safety and emergency awareness. The workshop was conducted by Dr. Frakhanda Siddiqui, an expert Intensivist from Inlaks General Hospital, Chembur.

The session provided students and staff with essential knowledge on how to respond effectively during medical emergencies. By focusing on practical first-response techniques and life-saving basics, Dr. Siddiqui empowered the participants with the confidence to provide immediate assistance before professional medical help arrives.

STUDENT ACTIVITIES

NATIONAL SERVICE SCHEME (NSS)



NSS Day & Orientation: Welcoming a New Generation of Volunteers
On September 24th, VES Polytechnic celebrated NSS Day with great enthusiasm, marking the foundation of the National Service Scheme (NSS). Launched by the Ministry of Youth Affairs and Sports, NSS is a central program aimed at developing a student's personality through community service, guided by the noble motto: "Not Me, But You."
The highlight of the event was a comprehensive Orientation Session conducted by the college's NSS Unit for the first-year students. This session introduced the newcomers to the core values of social responsibility and civic engagement. By bridging the gap between education and society, the program inspired our young engineers to contribute meaningfully to the nation's progress while building their own leadership and teamwork skills.

STUDENT ACHIEVEMENTS

**SR
NO****CLASS****NAME OF
STUDENTS****EVENT****RANK**

1	CO5KB	Alark Mhatre	Engineer's Day	1st
2	CO5KB	Gurav Ayush Yogesh	Engineer's Day	1st
3	CO5KB	Vishwamitre Raturaj Anand	Engineer's Day	1st
4	CO5KB	Dedhia Soumya Bakul	Engineer's Day	1st

STUDENT ACHIEVEMENTS

SR NO	CLASS	NAME OF STUDENTS	EVENT	RANK
5	CO5KB	Ahale Ishwari Shuklakumar	Engineer's Day	2nd
6	CO5KB	Tarachandani Anmol Anil	Engineer's Day	2nd
7	CO5KB	Khandagale Nishi Sachin	Engineer's Day	2nd
8	CO5KB	Thakur Kalpesh Sanjay	Engineer's Day	3rd

STUDENT ACHIEVEMENTS

SR NO	CLASS	NAME OF STUDENTS	EVENT	RANK
9	CO5KB	Sarthak Sachin Jedhe	Engineer's Day	3rd
10	CO5KB	Singh Avnish Mukesh	Engineer's Day	3rd
11	CO5KA	Joshi Soham Rahul	Engineer's Day	1st
12	CO5KA	Naik Tanmay Vinayak	Engineer's Day	1st

STUDENT ACHIEVEMENTS

SR NO	CLASS	NAME OF STUDENTS	EVENT	RANK
13	CO5KA	Ekhande Rushil	Engineer's Day	1st
14	CO5KA	Kazi Ibrahim	Engineer's Day	1st
15	CO5KA	Gaikwad Gaurav	Engineer's Day	1st
16	CO5KA	Vasa Mahira	Engineer's Day	1st

STUDENT ACHIEVEMENTS

SR NO	Class	Name of students	Event	Achievement
17	CO5KA	Thakur Swanandi	Engineer's Day	1st
18	CO5KA	Thakur Nishit	Engineer's Day	1st
19	CO5KA	Pai Anay Vinod	Engineer's Day	2nd
20	CO5KA	Sheth Kavish	Engineer's Day	2nd

STUDENT ACHIEVEMENTS

SR NO	CLASS	NAME OF STUDENTS	EVENT	RANK
21	CO5KA	Kazi Hasan	Engineer's Day	2nd
22	CO5KA	Sangale Raj	Engineer's Day	2nd
23	CO5KA	Nikunj Ahuja	Engineer's Day	2nd
24	CO5KA	Manchanda Sumit	Engineer's Day	3rd

STUDENT ACHIEVEMENTS

SR NO	CLASS	NAME OF STUDENTS	EVENT	RANK
25	CO5KA	Mhamane Aditya	Engineer's Day	3rd
26	CO5KA	Pranet Narwani	Engineer's Day	3rd
27	CO5KA	Sheth Kavish	Engineer's Day	3rd
28	CO1K	Harshal Sarode	Engineer's Day	2nd

STUDENT ACHIEVEMENTS

**SR
NO**

CLASS

**NAME OF
STUDENTS**

EVENT

RANK

29

CO1KB

Liza
Mathews

Engineer's
Day

1st

STAFF ACTIVITIES

SR
NO

NAME

WORKSHOP
DETAILS

MODE

DATES

1

Mrs.Shubhra
Tonge

Data
Analytics
Workshop At
Chembur

Online

18/08/2
025 to
22/08/2
025

2

Mrs.Shubhra
Tonge

Introduction
to Operating
System

Online

1/07/202
5 to
20/09/2
025

3

Mrs.Sonali
Pawar

Data
Analytics
Workshop At
Chembur

Online

18/08/2
025 to
22/08/2
025

4

Mrs
Shubhangi
Chintawar

Client Side
Scripting
Workshop At
Chembur

Online

8/12/202
5
to 12/12/
2025

STAFF ACTIVITIES

SR NO	NAME	WORKSHOP DETAILS	MODE	DATES
5	Mrs Meena Talele	Cyber Security And Digital Forensics Workshop At Chembur	Online	18/08/2025 to 22/08/2025
6	Mrs Vaishali Bodhale	Emerging paradigm in quantum computing Workshop At Chembur	Online	1/07/2025 to 20/09/2025
7	Mrs.Priya Pachpande	Data Analytics Workshop At Chembur	Online	18/08/2025 to 22/08/2025
8	Mrs Vaishali Bodhale	Ai bootcamp training	Online	8/12/2025 to 12/12/2025

GUEST LECTURES



The Computer Department organized an insightful session on “Digital Startup 101” on 2nd September 2026 for the students of CO4K (A & B). The session was delivered by Dr. Jatin Chonkar, CEO & Founder of ThryveGroup LLP.

In this session, Dr. Chonkar shared valuable insights about the startup ecosystem and the process of building a digital business. He explained how students can convert innovative ideas into successful startups using modern technology and digital platforms. The discussion included topics such as startup planning, funding opportunities, digital marketing strategies, and challenges faced by entrepreneurs.

The session motivated students to think creatively and explore opportunities in entrepreneurship and innovation. The event was organized by Mrs. Pratibha Pednekar, and students found the session inspiring and informative.

GUEST LECTURES



The Computer Department organized an expert lecture on “Data Structures used in Social Media Platforms” on 6th August 2025 for the students of CO3K (A & B). The session was conducted by Mr. Rudraksh Lamba, Director of Qubotron Electratag Technology Pvt. Ltd., Nagpur.

During the lecture, the resource person explained how different data structures such as trees, graphs, and hash tables are used in social media platforms to manage large amounts of user data efficiently. He also discussed how these structures help in improving search results, managing friend connections, and handling real-time interactions on platforms like social networking websites.

The session was highly interactive and informative. Students gained practical knowledge about how theoretical concepts learned in the classroom are applied in real-world technology systems. The lecture was organized by Mrs. Shubhangi Chintawar, and it proved to be very beneficial for the students.

INDUSTRIAL VISITS

An industrial visit was organized for the students to Essence of Indian Constitution (EIC) at Dr. Babasaheb Ambedkar Memorial on 22nd August 2025. The objective of the visit was to help students understand the values and principles of the Constitution of India. During the visit, students learned about fundamental rights, duties of citizens, and the importance of democracy in India. The session explained the vision and contributions of B. R. Ambedkar in framing the Constitution. Through exhibits and explanations, students gained knowledge about the structure and significance of the Constitution in governing the country. Overall, the visit was educational and helped students develop a better understanding of constitutional values and civic responsibility.

INK AND IDEAS

Life — An Untold War

Life caught me in such a way.
Nor can I sleep at night, neither have rest in the day.
These chains of cruel society killed my inner child.
Life feels like a mistake, like a code with errors before compiled.

These brutal animals of human society tore me apart.
Their flaws can be designed like a horrible flowchart.
Their art of being colourful made me black and white,
The human race became so horrible, it all feels like a fight.

Society looks like a battleground.
People fight with sorrows without making any sound.
The brain feels like a sword, and knowledge like a shield.
A heart once broken in this war, neither can be replaced nor can be healed.

-JASKIRAT SINGH- CO1K-B

INK AND IDEAS

॥ कोण नसतं कोणाच ॥

॥ कुणावाचून कुणाचे अडत नाही ॥
कोण नसतं कोणाच, कारण कधीच ...
कुणावाचून कुणाचे काहीच अडत नाही !
कारण ! कुणीच कुणासाठी ... आयुष्यभर
रडत नाही ... !

अरे, जगतात त्या मागील सुद्धा,
ज्यांचे वासरु हरवून गेले !

अरे, जगते ती आई सुद्धा,
जिचे लेकरु गेले !

आई नसलेली पोर सुद्धा ;

या दुनियेत धडतात !

जग तुळीच भोगा, कोण इथे

जन्मदात्यांच्या मागे जीव सोडतात ?

प्रियशी म्हणते प्रियकराला,

“ मी तुझ्याशिवाय मरून जाईल ! ”

प्रियकर म्हणतो प्रियसीला,

“ मी तुझ्याशिवाय कसा राहील ? ”

अरे, वर्षे पालटतात तसेच

तो ज्याच्या संसारात राहतो !

अत ती ही तिच्या संसारात

नवा शोबती शोधते !

रक्त पान पडले म्हणून,

पुर्ण झाड कधीच पडत नाही !

कुणाच कारण कधीच, कुणावाचून ...

काहीच अडत नाही !

म्हणून सांगते

स्वतः वर प्रेम कवायला शिका ... !

-SUHANI PATIL- CO1K-A

INK AND IDEAS

इंसान की असलियत

इंसान का शरीर एक, चेहरे दो।

अपने से पहले दुनिया के खयाल आते मन में सौ।

दूसरों की खुशियों का सोचते-सोचते, भूल जाता अपने बारे।

अगर पीछे रह गया इस ज़िंदगी की दौड़ में, तो बजेंगे इसकी हार के नगाड़े।

ज़िंदगी में मिले दुख बहुत और सुख काफ़ी कम।

खुश रहने का नाटक कर-कर के, टूट चुका है इसका दम।

पहले इंतज़ार कर रहा था किसी का, लगाने के लिए ज़ख्मों पर मरहम।

अब इंतज़ार करता है मौत का, क्योंकि तड़प चुका है लेकर इस दुनिया में जनम।

बचपन में था इसको ज़िंदगी जीने का शौक बढ़ा।

दूसरों को खुश करने के लिए, अपने आप से लड़ा।

सपने पूरे करने का इससे अलग चस्का था चढ़ा।

अब हार चुका है अपने आप से, ज़िंदगी के आखिरी मोड़ पर है खड़ा।

जाएगा अब तीर्थ यात्रा, क्योंकि पापों का भर गया है घड़ा।

जीना चाहता है बचपन को एक बार और, ऐसी ज़िद पर है अड़ा।

-JASKIRAT SINGH- CO1K-B

IMAGINATIVE WEAVING



**RUSHIKESH BORHADE-
CO1K-B**

PANTHI SHAH- CO1K-A



IMAGINATIVE WEAVING

PANTHI SHAH- CO1K-A



IMAGINATIVE WEAVING

THE GROWING IMPACT OF COMPUTER ENGINEERING

Computer Engineering is one of the most dynamic and influential fields in today's technological era. It combines principles of computer science and electronics to design, develop, and improve computer systems and software that power modern life.

From smartphones and cloud computing to artificial intelligence and cybersecurity, computer engineers play a crucial role in shaping the future. Innovations such as machine learning, Internet of Things (IoT), and automation are transforming industries including healthcare, education, transportation, and finance.

In academic environments, computer engineering departments serve as hubs of creativity and innovation. Through projects, research, hackathons, and technical workshops, students gain hands-on experience and develop problem-solving skills that prepare them for real-world challenges.

As technology continues to evolve rapidly, the role of computer engineers becomes even more important. With curiosity, creativity, and collaboration, the next generation of engineers will continue to push boundaries and build smarter solutions for a connected world.

SHIVDHI CHETNANI
CO1K-A

IMAGINATIVE WEAVING

WOMEN EMPOWERMENT AND LEADERSHIP

Women empowerment has become one of the most important movements shaping modern society. Over the past few decades, women have made remarkable progress in education, careers, entrepreneurship, and leadership. Today, women are not only participating in different fields but are also leading organizations, communities, and innovations.

Education plays a vital role in empowering women. When women receive equal opportunities to learn and develop their skills, they gain confidence and independence to pursue their goals. Empowered women contribute significantly to economic growth, social development, and technological advancement.

In fields such as science, engineering, business, and politics, women leaders are breaking stereotypes and inspiring the next generation. Their achievements encourage young girls to dream bigger and believe in their abilities.

However, true empowerment means creating equal opportunities, respect, and support for women in every sector. By promoting gender equality, encouraging leadership, and supporting women's voices, society can build a more inclusive and progressive future.

Women empowerment is not just about uplifting women—it is about strengthening the entire community and creating a balanced and prosperous world.

MANVI GURAV
CO1K-A

EDITORIAL TEAM



**EXECUTIVE EDITOR-
BHAVISHA.A**

**CREATIVE DIRECTOR-
SHIVDHI.C**



**DOCUMENTATION
EXECUTIVE- MANVI**

EDITORIAL TEAM



**EDITORIAL ANALYST-
NIRVI**



**PROOF EDITOR-
TANMAY**



**RESEARCH EDITOR-
ISHIKA**

EDITORIAL TEAM



From left to right, Manvi Gurav, Shivdhi Chetnani, Bhavisha Asnani, Mr.Sanjay Wankhede (HOD CO Dept.), Mr.Mangesh Patil (CO Dept. Newsletter Faculty Incharge), Tanmay Shewale, Nirvi Chothani and Ishika Poojary

Swami Vivekananda - Our Idol



“We want that education by which character is formed, strength of mind is increased, the intellect is expanded and by which one can stand on one’s own feet. True education is the harmonious development of the physical, the mental, and the spiritual powers. It prepares the student for the joyous and glorious responsibilities of life.”

These words of Swami Vivekananda emphasize that education is not merely about bookish knowledge. Its true purpose is to build character, confidence, and self-reliance. It should develop the body, mind, and spirit in harmony.

Such education shapes responsible and strong individuals who are prepared to face life with courage and serve society with dedication.