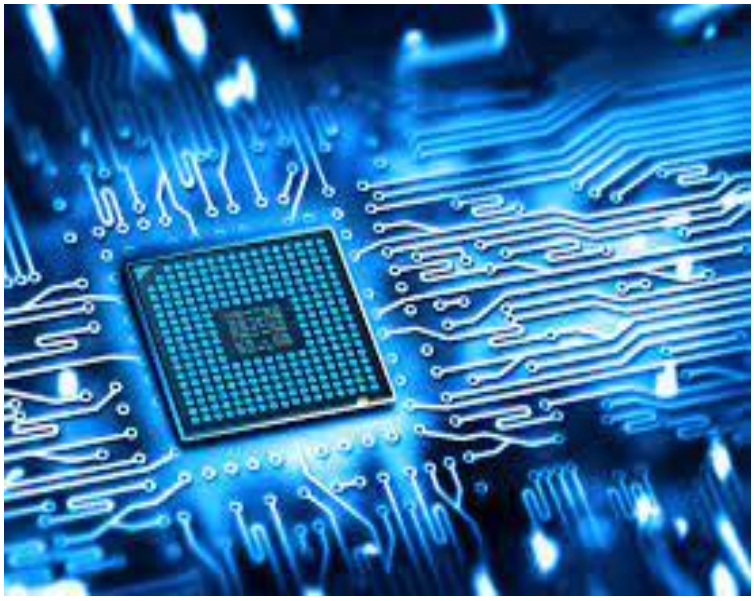
Pimpri Chinchwad Education Society's

Pimpri Chinchwad College of Engineering and Research, Ravet, Pune

Department of Electronics & Telecommunication

Electronica – 2026

A.Y. 2025-26 (Sem-II)



Pimpri Chinchwad Education Society's

Pimpri Chinchwad College of Engineering and Research, Ravet, Pune

Department of Electronics & Telecommunication

Electronica – 2025-26

A.Y. 2025-26 (Sem-II)

Chief Editor: Dr. Kiran N.Napte
(HOD E&TC Department)

Editors: Mrs. Priti R. Kale
(Assistant Professor E&TC Department)

Student Members: Mr. Prem Miraje
Mr. Ritesh Pardhi

Department at a Glance

Department of Electronics & Telecommunication

About Department

The Bachelor of Engineering Program in Electronics and Telecommunication has commenced from the academic year 2014-15. The current student intake capacity is 60. The department is consisting of 03 class rooms and 09 well-equipped laboratories in the department. The Electronics and Telecommunication department is having online access to top journals through J-GATE. The department is having latest software's needed as per the academic curriculum. One practical batch is limited to 15 students and students are encouraged to perform practical individually. For each experiment a group of maximum 02 students performs the practical.

Vision of the Department

To be a globally recognized center of excellence in Electronics and Telecommunication Engineering through quality education, innovation, and research, fostering professionals who contribute ethically and effectively to society and industry.

Mission of the department-•

Mission 1: To impart cutting-edge knowledge and practical skills in Electronics and Telecommunication Engineering through innovative and experiential learning to enhance employability and lifelong learning.

Mission 2: To foster research, innovation, and collaboration with industry and academia at national and international levels for technological advancement and societal benefit.

Mission 3: To cultivate ethical values, leadership qualities, and a sense of social and environmental responsibility among students for holistic professional development.

Message from HOD's Desk

Prof. Dr. Kiran N.Napte

Dear All,

Greetings for the E&TC department….

Department of Electronics & Telecommunications is located on fourth floor of Pimpri Chinchwad College of Engineering & Research, Ravet, Pune**.** The department works with the objective of addressing critical challenges faced by the Industry, society and the academia. The department is equipped with 04 software labs and 05 hardware labs with all necessary infrastructure and instruments for Signal Processing, Power Electronics, Antenna and wave, Digital Communication, Embedded systems. The department faculty work with excellent team spirit with specialization in different areas like Electronics, Communication, Signal processing, VLSI, Embedded System, Wireless Sensor Network etc. Importance is given to quality teaching and learning process adapting various innovative techniques by teachers and soft skill programmers for students. Special care is taken about the students whose performance is poor in the examinations through counseling and extra classes.

Magazine coordinator

Assistant Prof. Priti Kale
(Faculty coordinator)

(Student Coordinator)

Prem Miraje

SE E&TC

(Student Coordinator)

Ritesh Pardhi
SE E&TC

Faculty List

Sr. No.	Name of Faculty	Specialization	Designation
1	Dr.Rahul Ganpat Mapari	PhD (Electronics & Telecommunication)	Deputy Director
2	Dr. Kiran Malhari Napte	PhD (Electronics & Telecommunication)	HOD & Assistant Professor
3	Dr. Santosh Nagnath Randive	PhD (Electronics & Telecommunication)	Associate Professor
4	Mrs. Vijayalaxmi Sandeep Kumbhar	ME (Electronics & Telecommunication	Assistant Professor
5	Mrs. Maithili Shailesh Andhare	ME (Electronics)	Assistant Professor
6	Mrs. Arti Avinash Tekade	ME (Electronics)	Assistant Professor
7	Dr. Rupali Ramdas Kawade	PhD (Electronics & Telecommunication)	Assistant Professor
8	Dr. Dipali Nilesh Dhake	PhD (Electronics & Telecommunication)	Assistant Professor
9	Dr. Kishore B Bhangale	PhD (Electronics & Telecommunication)	Assistant Professor
10	Mrs. Priti R. kale	ME (Electronics & Telecommunication)	Assistant Professor
11	Dr.Vijaya A. Yaduvanshi	PhD (Electronics & Telecommunication)	Assistant Professor
12	Dr.Priti Rajput	PhD (Electronics & Telecommunication)	Assistant Professor
13	Mrs. Smita Sunil Kadam	ME(Electronics & Telecommunication)	Assistant Professor
14	Mrs. Sneha Pramod Mali	ME(Electrical Power System)	Assistant Professor

Supporting Staff

Sr. No.	Name of Faculty	Specialization	Designation
1	Mr. K. D. Bhalekar	Diploma (E&TC)	Lab Assistant
2	Mrs. S. B. Gholap	BE (E&TC)	Lab Assistant
3	Mrs. B. L. Gawali	Diploma (E&TC)	Lab Assistant
4	Mrs. Ashwini Jagnade	BSc (Physics)	Lab Assistant
5	Mr. M. S. Garade	I.T.I (Electrician)	Peon

Technical Article

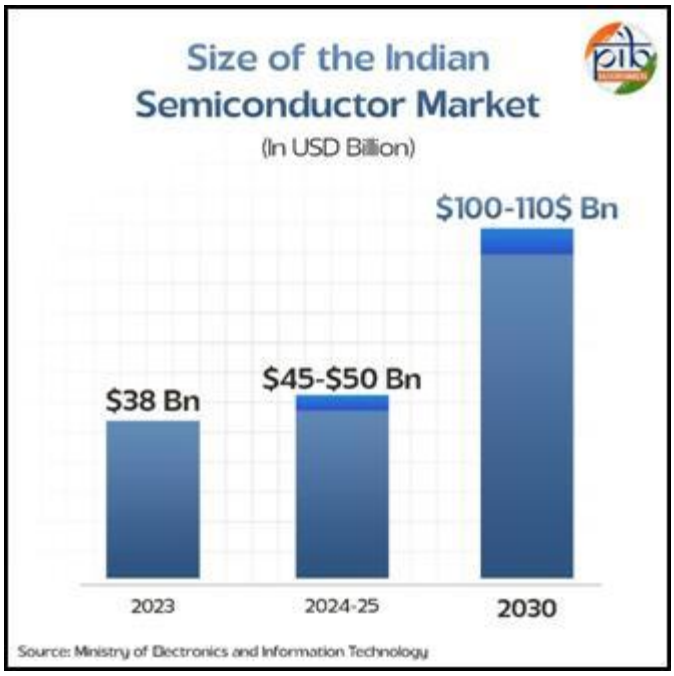
Powering the Future: The Semiconductor and AI Revolution

Introduction

Semiconductors are fundamental to today's digital economy, powering everything from smart phones and automobiles to defence and medical devices. India has made remarkable progress in strengthening its semiconductor ecosystem, driven by the vision of Aatmanirbhar.

With the launch of the India Semiconductor Mission and an outlay of ₹76,000 crore, several fabrication and design facilities have been established, propelling the country towards technological leadership and reduced import dependence. Recent government approvals and investments signify India's emergence as a global hub for electronics and semiconductor manufacturing, underscoring its commitment to self-reliance and innovation.

Major Milestones



- 2021: Union Cabinet approved the India Semiconductor Mission (ISM) with a ₹76,000 crore outlay to boost fabrication, design, and manufacturing.

- 2023–2025: Rapid setup of major facilities by domestic and foreign firms with significant investments. Total approved projects under ISM reaches to 10 with cumulative investments of around Rs.1.60 lakh crore in 6 states.
- 2025: India inaugurated its first centres for advanced 3-nanometer chip design in Noida and Bengaluru, an Indian first.
- At the Global Investors Summit 2025, it was announced that India's first indigenous semiconductor chip would be ready for production this year. Five production units are under construction, signalling a significant milestone for domestic capability.
- Madhya Pradesh has made a significant stride in the IT and electronics sector with the inauguration of its first IT campus, backed by an investment of ₹150 crore over the next six years.

Training tomorrow's Experts

- New curriculum by All India Council for Technical Education (AICTE) for VLSI Design & Technology, Integrated Circuit (IC) manufacturing.
- Developing **85,000 skilled manpower** in semiconductor design sector & providing EDA tools to design semiconductor chips, over 10 years.
- **45,000+ students from 100 institutions** enrolled so far.
- Skilled Manpower Advanced Research and Training (SMART) Lab at NIELIT Calicut to train **1 lakh engineers nation-wide with 44,000+ engineers** already trained.
- Collaboration with industry and universities such as Lam Research, IBM and Purdue University.
- C2S program: **278 academic institutions and 72 start-ups** have been given EDA tools, as of August 2025.
- **60 thousand students benefitted**, as of August 2025.
- **20 chips from 17 institutions** fabricated so far; showing India's push for indigenous R&D.

Open Data & Centres of Excellence (CoE)

- IndiaAI Dataset Platform to host the largest collection of anonymised datasets.
- **Three AI CoEs in Healthcare, Agriculture, Sustainable Cities**; ₹500 crore for CoE in Education.
- **Five National CoEs for AI skilling** in collaboration with global partners.

Indigenous AI Models & Language Technologies

- Development of foundational AI models, LLMs (Large Language Model) & SLMs (Small Language Model) tailored to Indian needs.
- Digital India BHASHINI for Indian language translation & voice access.
- BharatGen world's first government-funded multimodal LLM initiative.
- **Sarvam-1, Chitralekha, and Hanooman's Everest 1.0** for multilingual AI applications.

AI Integration with Digital Public Infrastructure (DPI)

- AI-powered crowd & transport management at **Mahakumbh 2025 using DPI platforms**.
- Bhashini-powered multilingual chatbot integrated with police & railways.

AI Talent & Workforce Development

- AI education expansion across UG, PG & Ph.D. programs; fellowships for top AI research.
- **AI labs in Tier 2 & Tier 3 cities** to decentralise innovation.
- India ranks 1st in global AI skill penetration; 263% talent growth since 2016.
- **AI industry projected at USD 28.8B by 2025** with 1M AI professionals by 2026.

AI Adoption & Industry Growth

- 80% Indian firms view AI as a core priority; 69% increasing tech investments in 2025.
- **GenAI startup funding grew 6x in Q2 FY25** to USD 51M.
- AI aiding SMB revenue growth; 93% report increased revenues from AI use.

Advancements in Robotic Systems: A Comprehensive Review of Emerging Technologies and Applications

INTRODUCTION

The realm of robotics has embarked on a transformative journey, where unprecedented advancements are redefining the boundaries of human achievement (Sugawara H, 2003). The convergence of cutting-edge technologies has birthed a new era in which robotic systems are no longer confined to controlled environments and repetitive tasks. Instead, they have emerged as versatile entities endowed with perceptual acumen, intricate manipulation capabilities, and the ability to engage with humans in ways that mirror natural interactions (Oinn T, 2004). This comprehensive review delves into the intricate tapestry of these advancements, shedding light on the landscape of emerging technologies and their diverse applications across various sectors. From the towering assembly lines of manufacturing plants to the intricate surgeries within operating theaters, from the unexplored depths of the oceans to the distant horizons of planetary exploration, robots have stepped onto the stage as collaborative partners in human endeavors (Hoon S, 2003). The synergy of perception, cognition, and mobility has unlocked new dimensions, enabling robots to perceive, adapt, and learn from their surroundings with an unprecedented level of sophistication. This review takes a magnifying glass to these facets, examining the latest breakthroughs in perception, manipulation, mobility, human-robot interaction, and artificial intelligence that collectively form the backbone of modern robotic systems. As we navigate this landscape of progress, it becomes evident that the horizons of robotics extend beyond the realms of science fiction (Fisher P, 2007). The symbiotic relationship between humans and robots is becoming increasingly intertwined, fueling innovation across industries and revolutionizing the way we live and work. However, this march towards the future is not devoid of challenges. Ethical considerations, societal impacts, and the redefinition of traditional job roles are just a few facets that cast shadows in the wake of these technological marvels. While the possibilities are exhilarating, there is a pressing need to address these challenges with a sense of responsibility and foresight (Wilkinson MD, 2002). This review aims to serve as a guiding compass for researchers, engineers, and enthusiasts alike, offering a panoramic view of the latest developments in robotic systems. By synthesizing information from a diverse array of sources, it paints a vivid picture of the current state of the art and offers insights into the potential trajectories that robotics may traverse in the coming years. As the curtain rises on this new age of robotics, we embark on a journey that holds the promise of reshaping industries, enhancing human capabilities, and ultimately redefining the very fabric of our technological future (Smedley D, 2009).

Perception

Perception is a foundational aspect of robotic systems, enabling them to interact with and understand their environment (Vaquero LM, 2009). Recent developments in sensor technologies, including LiDAR, depth cameras, and advanced computer vision techniques, have elevated robots' perception capabilities. This section reviews these advancements, detailing how they contribute to tasks such as object recognition, scene understanding, and spatial mapping (Kottmann R, 2008).

Manipulation

The ability of robots to manipulate objects with dexterity has immense implications for industries like manufacturing, logistics, and healthcare. This section explores novel approaches to robotic manipulation, encompassing soft robotics, tactile sensing, and fine motor control. The integration of AI-driven algorithms for grasp planning and manipulation further enhances robots' adaptability to varying tasks (Lapins M, 2008).

Mobility

Advancements in mobility technologies have expanded the range of environments in which robots can operate. From legged locomotion and aerial drones to autonomous vehicles, this section surveys innovations in robotic mobility. The convergence of mobility with AI and sensor technologies has paved the way for efficient navigation, exploration, and data collection (Steinbeck C, 2003).

Human-robot interaction

Seamless interaction between humans and robots is pivotal for user acceptance and collaborative tasks. Recent progress in natural language processing, gesture recognition, and affective computing has led to more intuitive and effective human-robot interfaces. This section examines these developments, focusing on how they enhance communication, cooperation, and overall user experience.

Artificial intelligence and learning

AI plays a central role in enabling robots to learn from their experiences and adapt to dynamic environments. Reinforcement learning, neural networks, and generative models are reshaping

the way robots acquire skills and knowledge. This section elucidates the symbiotic relationship between robotics and AI, highlighting breakthroughs in autonomous decision-making and adaptive behavior.

Artificial intelligence (AI): AI involves creating machines or systems that can mimic human-like intelligence and cognitive functions. In the context of robotics, AI enables robots to perceive and understand their environment, make sense of complex data, make decisions, and even exhibit behaviors that seem intelligent. This is achieved through techniques like machine learning, neural networks, and natural language processing.

Machine learning: Machine learning is a subset of AI that focuses on developing algorithms that allow computers or robots to learn from data and improve their performance on specific tasks. Instead of being explicitly programmed for every scenario, robots equipped with machine learning algorithms can adapt and improve their behavior through experience. This can involve supervised learning (learning from labeled examples), unsupervised learning (identifying patterns in data), and reinforcement learning (learning by interacting with an environment and receiving feedback).

Learning in robotics: In the context of robotics, learning involves the ability of robots to acquire new skills, optimize their behavior, and adapt to changing conditions. This could include learning to grasp objects more effectively, navigate through complex environments, recognize different objects or people, and even learn from human guidance. Learning can happen through interactions with the environment, other robots, or human users.

Challenges and ethical considerations

As robotics continues to advance, ethical dilemmas and societal implications come to the forefront. Issues related to job displacement, privacy concerns, and biased AI algorithms demand careful consideration. This section addresses these challenges, emphasizing the need for responsible development and regulation to ensure the ethical deployment of robotic technologies.

Departmental Activities (2025-26)

1 Day Industrial visit to ZTTC BSNL Pune

Pimpri-Chinchwad College of Engineering & Research arranged One day to ZTTC BSNL Pune on 10/04/2026 to have insight into New development in Wireless Communication.

The Industrial Visit is designed to provide industry-oriented practical exposure in Telecom, Networking, Broadband, OFC, Mobile Communication, IT Systems, and various emerging technologies. Students will receive hands-on experience under expert BSNL faculty, which will help them enhance their technical skills and employability

1. Visit was planned for TE and BE , E&TC Students.
2. No. of students Present – 100

3. The objectives of this Visit are:

- New development in Mobile Communication to accommodate in technology.
- **Motivation, and Inspiration**
- Communicating developments in Wireless Communication among the **Students**
- Encourage creativity and spirit of enquiry among the students.
- Creating awareness on important topical issues in s Wireless Communication, technology and engineering

Prof. A.A.tekade, Dr.K.B.Bhangale , Prof. Maithili Andhare , Prof. VijayalxmiKumbhar and alongwith TE and BE. (E&TC) students were visited to the ZTTC BSNL Pune

Benefits to the Students

1. Student's knowledge is increased.

2. They got information on developments in Telecom, Networking, Broadband, OFC, Mobile Communication
3. They are motivated

Industrial visit to U R Rao Satellite Centre, Bengaluru

Pimpri-Chinchwad College of Engineering & Research arranged visit to U R Rao Satellite Centre, Bengaluru, on 23/02/2026 to have insight into New development in space science and technology.

ISRO, Bengaluru is the lead centre for building satellites and developing associated satellite technologies. These spacecrafts are used for providing applications to various users in the area of Communication, Navigation, Meteorology, Remote Sensing, Space Science and interplanetary explorations. Visit was planned for SE , E&TC Students.

No. of students Present – 40

1. **The objectives of this Visit are:**

- Understand development and application of space science and technology.
- Launch Vehicle programme having indigenous capability for launching spacecrafts.
- INSAT Programme for telecommunications, broadcasting, meteorology, development of education etc.
- Motivation and Inspiration
- Creating awareness on important topical issues in technology and engineering.


Prof. U. R. RAO


ಚಂದ್ರಯಾನ ೩
Chandrayaan 3
India's first lander and rover on
NATIONAL
OIL ENGINE

Mock Placement Drive for BE (E&TC) Students at PCCOER

The Electronics and Telecommunication Student's Association (ETeSA) of Pimpri Chinchwad College of Engineering & Research (PCCOER) organized a successful Mock Placement Drive for BE (E&TC) students The event aimed to prepare students for real-world job interviews by simulating the placement process and providing valuable feedback.. Industry experts evaluated students' performances, offering personalized suggestions for improvement. The initiative provided an excellent platform for students to understand the expectations of the corporate world.

The event was divided into two parts, with interviews taking place in the department's software labs and classrooms. The interview panels not only assessed the students on technical skills but also gave them insights into areas such as communication, project presentation, and interview etiquette. Immediate feedback was provided, helping students grasp where they needed to focus, whether it was in technical knowledge or soft skills like voice modulation and confidence. This real-time guidance helped the students get a clear understanding of the dynamics of professional interviews.

Overall, the Mock Placement Drive was a tremendous success, equipping students with the tools and confidence they need for future placement interviews. The participants appreciated the experience, learning how to interact effectively withindustry professionals, handle challenging

situations, and present themselves in the best possible manner. This initiative highlighted PCCOER's commitment to holistic student development, ensuring that its graduates are well-prepared for the job market.

Workshop on PCB Design
Organized by
Department of E&TC Engineering IEEE STB

The Electronics and Telecommunication Department has organized Workshop on PCB Design workshop on 09/03/2026 to 10/03/2026 for SE E&TC students at Auditorium.

Objectives of the Event:

- To introduce participants to the fundamentals of Printed Circuit Board (PCB) design.
- To provide hands-on experience with KiCad for schematic capture and PCB layout.
- To develop skills in designing single-layer and multi-layer PCBs.
- To understand component selection, footprint assignment, and design rules.
- To enable participants to generate fabrication files (Gerber files) for PCB manufacturing.
- To bridge the gap between theoretical electronics knowledge and practical implementation.

Contents Delivered in Workshop:

- Introduction to PCB design flow and industry practices.
- Overview and installation of KiCad software.
- Schematic design using KiCadEeschema.
- Component library management and footprint assignment.
- PCB layout design using KiCad PCB Editor.
- Routing techniques: manual and auto-routing basics.
- Design Rule Check (DRC) and Electrical Rule Check (ERC).


PCB Layout Design
Workshop Using KiCad


GPS Map Camera
Pimpri Chinchwad,Maharashtra,India
Sai Darshan, Ravet, Pimpri Chinchwad, Maharashtra 412101, India
Lat 18.650971, Long 73.744039
Monday, 09/03/2026 03:39 PM GMT+05:30
Note : Captured by GPS Map Camera

MOCK Group Discussion (GD) Organized by Department of E&TC Engineering

MOCK Group Discussion (GD) Organized by Department of E&TC Engineering on 06th February 2026 for SE (E&TC) Students by Dr. Shivaji Chavan, Mrs. Priti Kale.

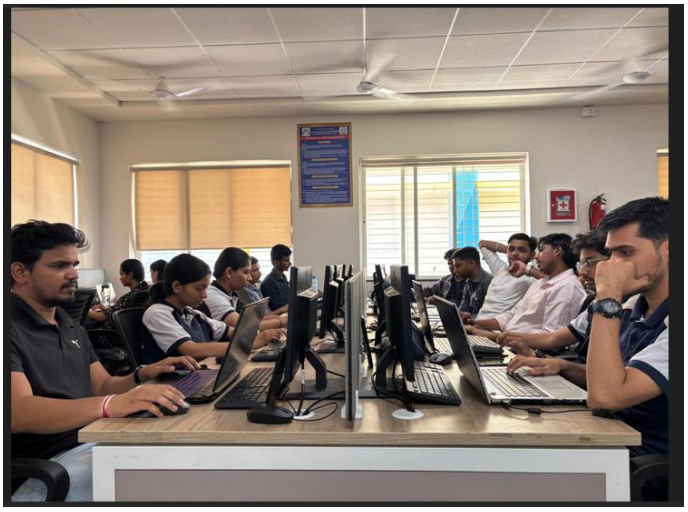
Objectives of the Event:

• Enhance Communication Skills – To improve students' verbal articulation, vocabulary, and fluency in expressing ideas.
• Promote Critical Thinking – To enable students to analyse topics logically and present well-structured arguments.
• Develop Teamwork & Interpersonal Skills – To encourage active participation, cooperation, and respect for diverse opinions.
• Strengthen Listening Skills – To cultivate the ability to listen attentively and respond constructively to others' viewpoints.
• Increase Awareness – To expose students to current affairs, social issues, and domain-related topics for broader knowledge.

PCCOER HierroCTF Hackathon 2025-26

Pimpri Chinchwad College of Engineering & Research proudly hosted the HierroCTF – Flag Hunter Cyber Hackathon 2025–26 in collaboration with HierroShield.

The event witnessed enthusiastic participation from talented cybersecurity enthusiasts who demonstrated exceptional skills in tackling real-world challenges, problem-solving, and critical thinking. From beginners to advanced learners, participants pushed their limits and gained valuable hands-on experience in a dynamic.



Highlights of the Event: • Engaging Capture The Flag (CTF) challenges

- Real-time problem-solving and teamwork
- Exposure to practical cyber security scenarios
- Outstanding performance by all participants

E&TC Faculty Publications in Scopus /SCI Indexed Journal, International Conferences , Books and Books Chapter (A.Y. 2025-26)

Sr. No	Name of Faculty	Title	Volume/Issue ISSN No/DOI	Name of the Journal
1	Dr. Rahul Mapari	A versatile methodology for preventing a parallel transmission system using impedance-based techniques	Vol. 12, Issue 5, Page 2577–2585 ISSN:2089-3191E-ISSN:2302-9285	Bulletin of Electrical Engineering and Informatics
2	Dr. Rahul Mapari	Performance analysis of FOC space vector modulation DCMLI driven PMSM drive	Vol. 12, Issue 5, Page 2682–2692 ISSN:2089-3191E-ISSN:2302-9285	Bulletin of Electrical Engineering and Informatics
3	Dr. R. G. Mapari	Comparison of dual isolated converters with flyback converters for bidirectional energy transfer	Volume 14,Issue 1,Page 55-63,DOI 10.11591/ijape.v14.i1.pp55-63	International Journal of Applied Power Engineering
4	Patil P W	Unpaired recurrent learning for real-world video de-hazing	Volume 166,Issue 10.1016,DOI 10.1016/j.patcog.2025.111698	Pattern Recognition
5	Dr. Dipali Shende	Performance evaluation and comparative analysis of CrowWhale-energy and trust aware multicast routing algorithm	Volume 21, Issue ,3,Pages 271–291 DOI:10.3233/WEB-220063	Web Intelligence
6	Dr. Kiran Napte	Automatic Liver Cancer Detection Using Deep Convolution Neural Network	Volume 11,pp. 94852–94862 Electronic ISSN: 2169-3536	IEEE Access
7	Dr.Kiran Napte	ESP-UNet: Encoder-Decoder Convolutional Neural Network with Edge-Enhanced Features for Liver Segmentation	Vol. 40, No. 5 pp. 2275-2281 ISSN: 0765-0019	Traitement du Signal
8	Dr. Kiran Napte	Liver segmentation using marker controlled watershed transform	Vol 13, No 2, pp 1541-1549 ISSN: 2088-8708	International Journal of Electrical and Computer Engineering
9	Dr. Kishor Bhangale	A novel two-way feature extraction technique using multiple acoustic and wavelets packets for deep learning based speech emotion recognition	Vol. 12, No. 4 ; https://doi.org/10.3390/electronics12040839	Multimedia Tools and Applications
10	Dr. Kishor Bhangale	Speech Emotion Recognition Using Generative Adversarial Network and Deep Convolutional Neural Network	Vol. 212 https://doi.org/10.1016/j.apacoust.2023.109613	Circuits, Systems, and Signal Processing
11	Dr. Rupali Kawade	Comprehensive Study of Automatic Speech Emotion Recognition Systems	ISSN: 2321-8169 Volume: 11 Issue: 9s DOI: https://doi.org/10.17762/ijritcc.v11i9s.7743	International Journal on Recent and Innovation Trends in Computing and

				Communication
12	Dr. Dipali Dhake	Novel 2-D Wavelet-Based Spectral-Temporal Representation for Deep Learning Based Stress Detection Using EEG Signal	ISSN: 2321-8169 Vol. 11 No. 8s (2023) https://doi.org/10.17762/ijritcc.v11i8s.7175	Circuits Systems and Signal Processing
13	Rajput Priti	Design And Analysis Of Spin-Based Logic Gates For Enhancing Computational Efficiency	Volume 103,Pages 3866-3876 ,Issue 9	Journal of Theoretical and Applied Information Technology
14	Arti Tekade	Person identification using novel local triangular binary pattern-based texture descriptor	Vol- 16 Issue 4, ISSN:0974-6242	EURASIP Journal on Advances in Signal Processing
15	Vijayalaxmi Kumbar	Improving FinFET Device Parameters Through an Integrated Method of Particle Swarm and Whale Optimization Techniques	Vol -2025,Pages 1-16 DOI:10.1049/cds2/7035085	IET Circuits, Devices & Systems
16	Dr .Kishor Bhangale	Speech Emotion Recognition Using Generative Adversarial Network and Deep Convolutional Neural Network	DOI: https://doi.org/10.1007/s00034-023-02562-5 ISSN: 0278-081X	Circuits, Systems, and Signal Processing
17	Maithili Andhare	DeepStressNet: Deep Learning Based Multichannel EEG-Based Stress Detection System	https://doi.org/10.1109/ICEC2NT65402.2025.11380158	2025 International Conference on Electronics and Computing, Communication Networking Automation Technologies (ICEC2NT)

International Conferences

Sr.No.	Name of Faculty	Title	Name of the Conference	Venue
1	Dipali Dhake	LSTM Algorithm for the Detection of Mental Stress in EEG	2023 3rd International Conference on Intelligent Technologies (CONIT) Karnataka, India.	Karnataka, India.
2	Kishor Bhangale	Deep Learning-based Analysis of Affective Computing for Marathi Corpus	2023 3rd International Conference on Intelligent Technologies (CONIT)	Karnataka, India.
3	Kishor Bhangale	IOT Based Automation of Pre-treatment Plant for Surface Coating with Multiple Batch System	2023 5th International Conference on Energy, Power and Environment: Towards Flexible Green Energy Technologies (ICEPE)	NIT, Meghalaya
4	KishorBhangale	Analysis of Affective Computing for Marathi Corpus using Deep Learning	2023 4th International Conference for Emerging Technology (INCET)	Jain College of Engineering, Hunchyanatti Cross,, Belgaum, Karnataka

5	Maithili Andhare, Kishor Bhangale,	IoT-Enabled RFID-Based Library Management and Automatic Book Recommendation System Using Collaborative Learning	3rd International Conference on Sentiment Analysis and Deep Learning (ICSADL 2022)	Tribhuvan University, Nepal
6	Arti Tekade	An Overview of Forensic Human Identification Using Biometric Radiographs: A Systematic Literature Review	International Conference on Advanced Engineering, Sciences & Management'23 (ICAESM'23)	Chennai, India

Books and Book Chapter

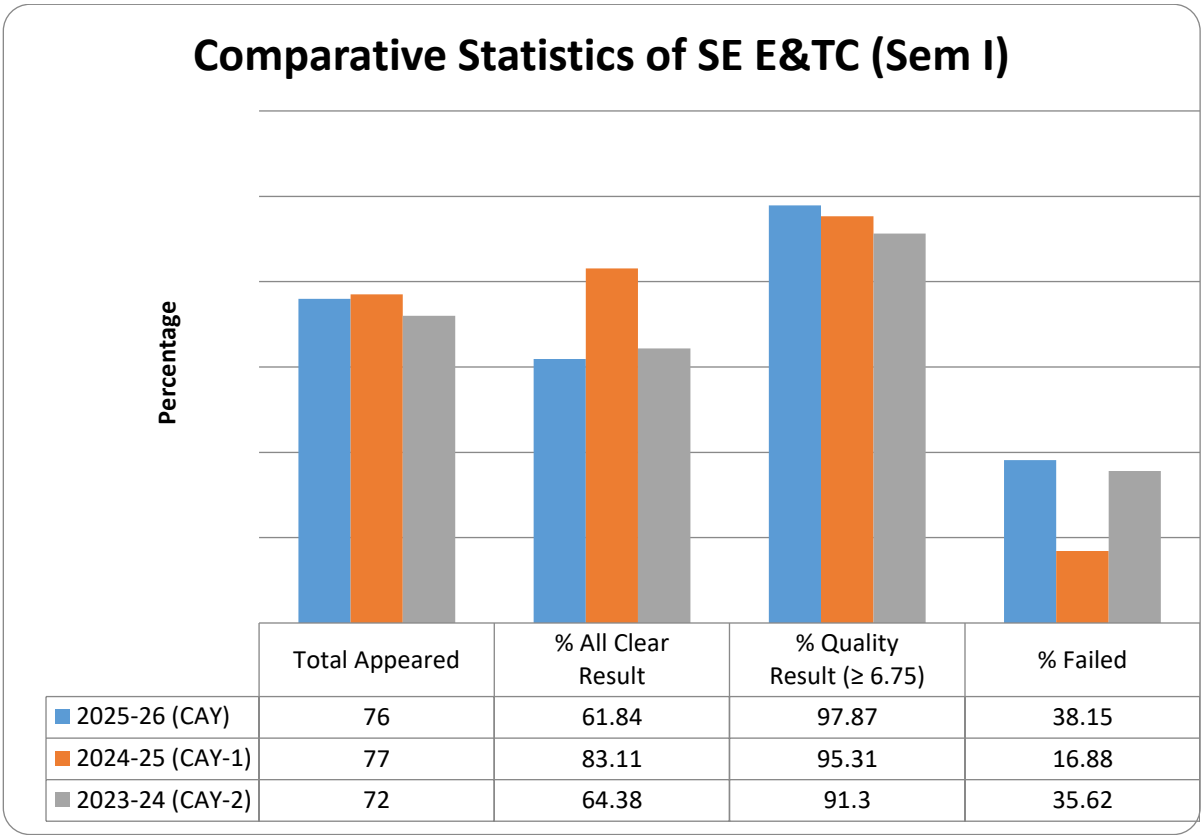
Sr.No.	Name of Faculty	Title	Name of the Conference/ISBN	Name of the Proceeding
1	Dipali Dhake	EEG features selection by using Tasmanian Devil Optimization Algorithm for Stress Detection	International Conference on Evolutionary Artificial Intelligence [ICEAI 2023]	Artificial Evolutionary
2	Vijayalaxmi Kumbhar	Control Systems	ISBN : 978-93-5757-392-4	Scientific International Publishing House (SIPH)
3	Santosh Randive	(MS)2EDNet: Multiscale Motion Saliency Deep Network for Moving Object Detection	International Conference on Computer Vision and Image Processing	Communications in Computer and Information Science book series (CCIS, volume 1568)
4	Santosh Randive	Humanoid Robot - Spark	International Conference on Computer Vision and Image Processing	Communications in Computer and Information Science book series (CCIS, volume 1568)
5	Dr.Dipali Dhake	Deep Learning Techniques	ISBN : 978-93-7196-333-6	Scientific International Publishing House (SIPH)
6	Dr.Kishor Bhangale	Data Structures and Algorithms	ISBN : 978-93-7196-399-2	Scientific International Publishing House (SIPH)

Result Analysis

Overall Result Summary: SE E&TC SEM-(I)

Academic Year	2025-26 (CAY)	2024-25 (CAY-1)	2023-24 (CAY-2)
Total Appeared	76	77	72
All Clear Result	61.84%	83.11%	64.38%
Quality Result (≥ 6.75)	97.87%	95.31%	91.30%
% Failed (ATKT)	38.15%	16.88%	35.62%

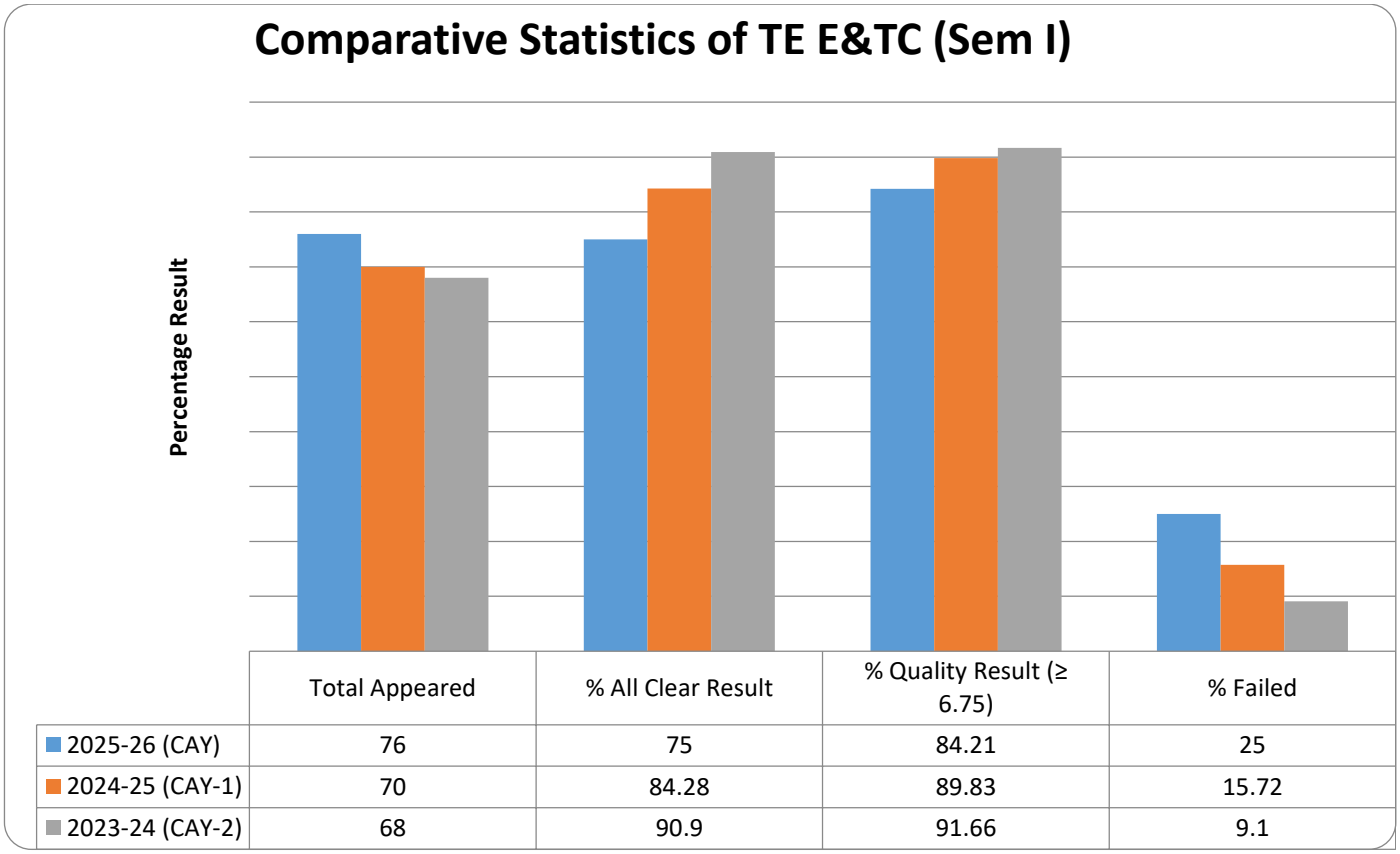
CAY: Current Academic Year CAY-1: Current Academic Year minus 1 (Previous AY)



Overall Result Summary: TE E&TC SEM-(I)

Academic Year –	2025-26 (CAY)	2024-25 (CAY-1)	2023-24 (CAY-2)
Total Appeared	**76**	**70**	**68**
All Clear Result	**75%**	**84.28%**	**90.90%**
Quality Result (≥ 6.75)	**84.21%**	**89.83%**	**91.66%**
Failed (ATKT)	**25%**	**15.72%**	**9.1%**

CAY: Current Academic Year CAY-1: Current Academic Year minus 1 (Previous AY)

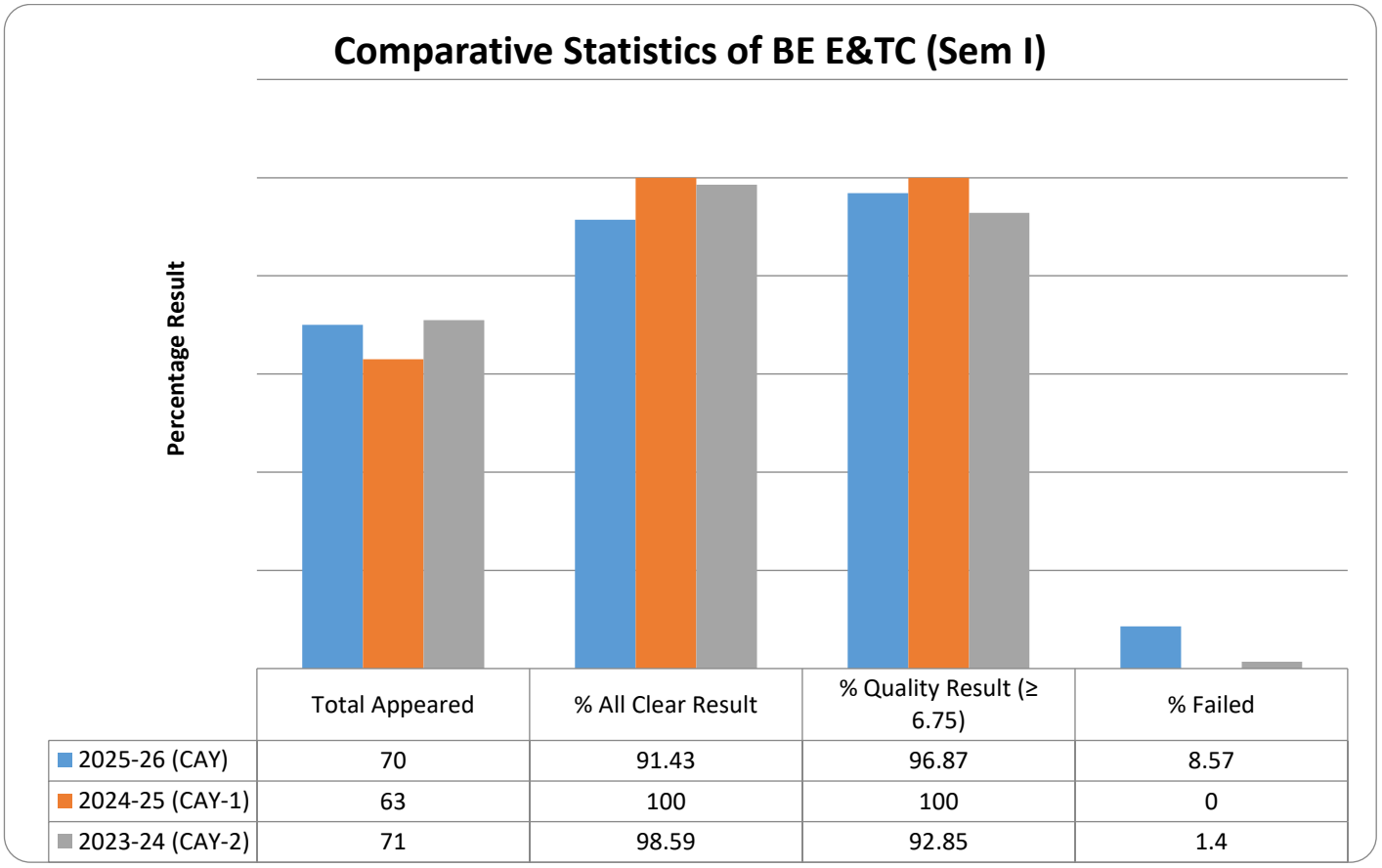


	Total Appeared	% All Clear Result	% Quality Result (≥ 6.75)	% Failed
2025-26 (CAY)	76	75	84.21	25
2024-25 (CAY-1)	70	84.28	89.83	15.72
2023-24 (CAY-2)	68	90.9	91.66	9.1

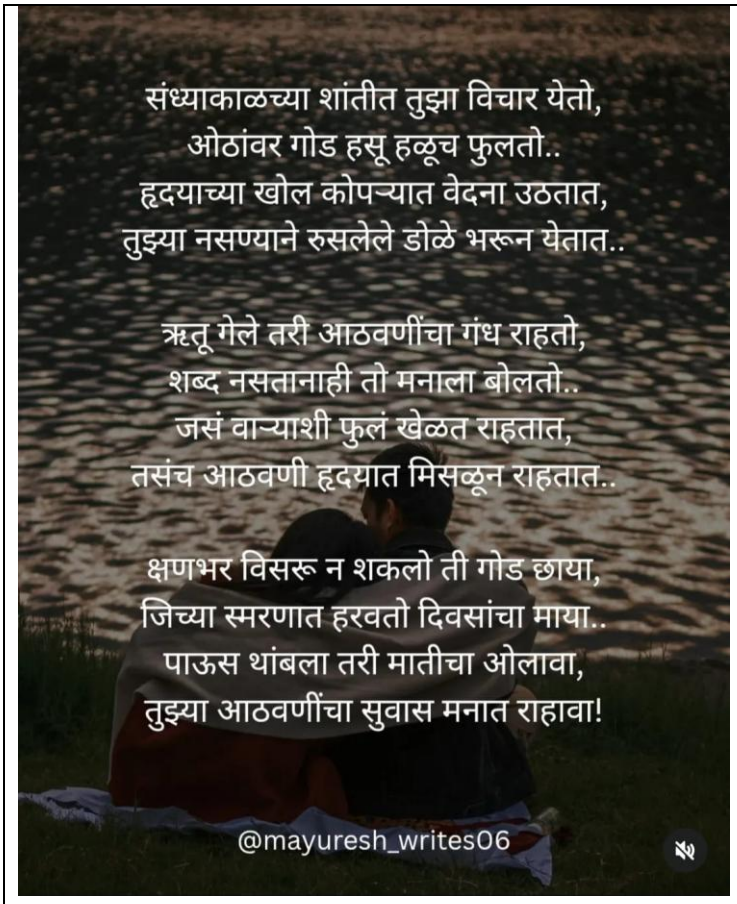
Overall Result Summary: BE E&TC SEM-(I)

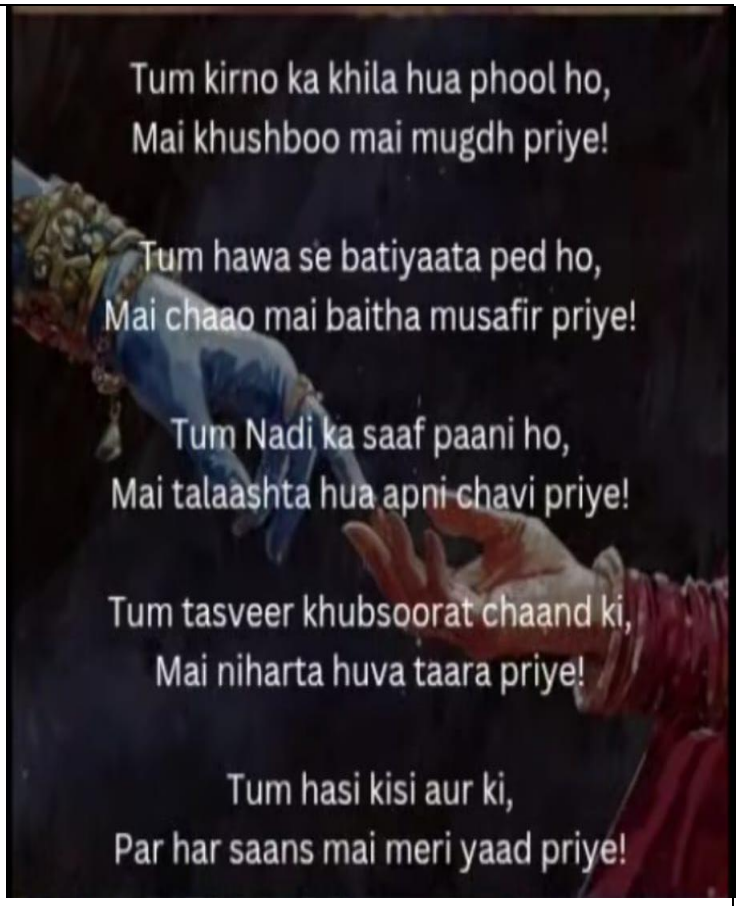
Academic Year –	2025-26 (CAY)	2024-25 (CAY-1)	2023-24 (CAY-2)
Total Appeared	70	63	71
All Clear Result	91.43%	100%	98.59%
Quality Result (≥ 6.75)	96.87%	100%	92.85%
Failed (ATKT)	8.57%	0	1.4%

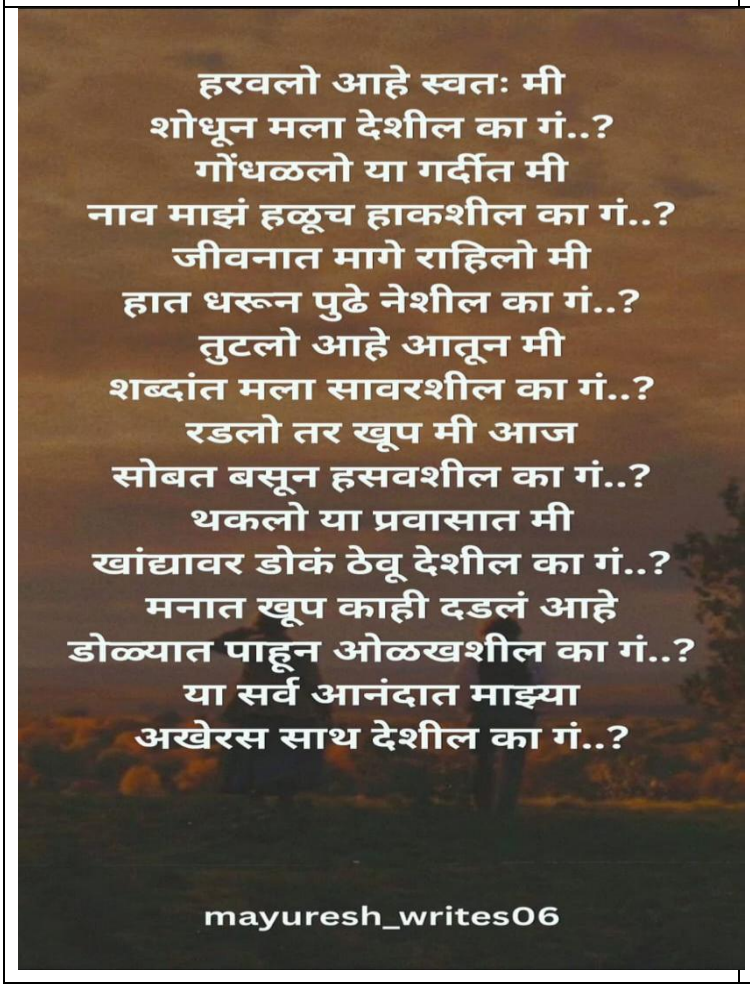
CAY: Current Academic Year *CAY-1: Current Academic Year minus 1 (Previous AY)*



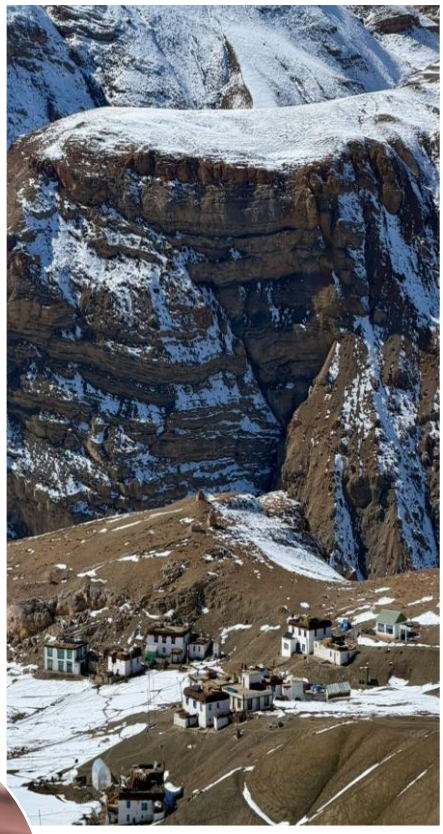
Student Corner



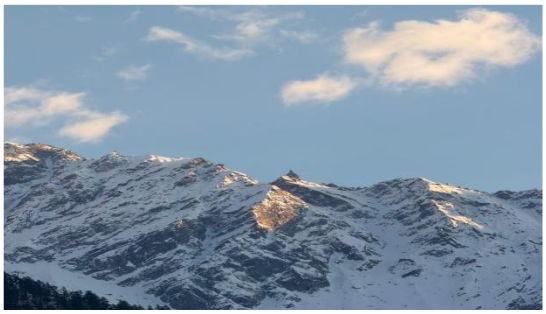


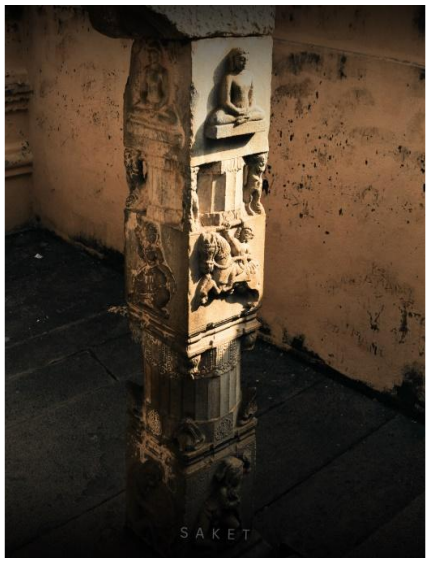


Mayuresh Mudase
SE S&TC



Prem Miraje
SE E&TC





Saket Patil
SE E&TC

Omkar Handore

TE E&TC

Testimonials

Hardik Saklikar

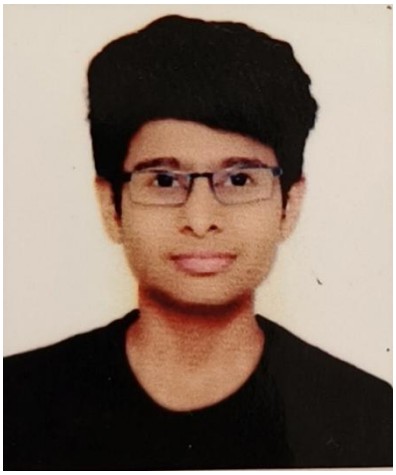
BE-E&TC

My experience at PCCOE&R was nothing short of exceptional. The E&TC department offered a comprehensive learning environment, combining theoretical knowledge with practical exposure, which helped shape me into a well-rounded engineer. The faculty's mentorship and hands-on approach truly honed my technical abilities, while the regular skill development sessions were critical for my placement success. I am immensely thankful for the guidance and support that have contributed to my growth, both personally and professionally.

Lishika Seerwani

BE-E&TC

Being a part of PCCOE&R's E&TC department was a pivotal step in my engineering journey. The balance of theoretical learning and real-world application provided by the department was crucial in building my confidence as an engineer. The faculty's dedication to nurturing our skills, especially through regular aptitude and technical workshops, played a key role during the placement season. I am grateful for their constant encouragement, which fueled my personal and professional development.



Atharv Zende

BE-E&TC

My time at PCCOE&R, particularly in the E&TC department, has been a transformative chapter in my life. The faculty not only imparted deep theoretical knowledge but also ensured we gained practical skills essential for our careers. The consistent focus on technical aptitude and placement readiness was invaluable. I'm deeply appreciative of the support and guidance that helped me grow both as an individual and a professional.

Ritu Tanwar

BE-E&TC

Studying at PCCOE&R has been a rewarding experience, especially under the guidance of the E&TC department. The department's blend of academic rigor and hands-on training allowed me to sharpen my engineering skills effectively. The mentorship provided by the faculty and the regular technical sessions were instrumental in preparing me for placements. I am thankful for the department's unwavering support, which significantly contributed to my success and growth.

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING AND RESEARCH

RAVET, PUNE-412101

Institute Vision &Mission

Vision:

To be a Premier institute of technical education & research to serve the need of society and all the stakeholders.

Mission:

To establish state-of-the-art facilities to create an environment resulting in individuals who are technically sound having professionalism, research and innovative aptitude with high moral and ethical values.

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING & RESEARCH

Plot No. B, Sector no. 110,Gate no.1; Laxminagar, Ravet,

Haveli, Pune – 412101

Phone:+91-20-69338080, Email: pccoer.ravet@gmail.com Website: www.pccoer.com