

ETSA CONNECT

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December 2025



Art by:
Harsh Gumdel, B.Tech ENT

VISION

To be recognized as a distinguished department in the field of electronics and telecommunication transforming students into competent technocrats by providing an Ethical, Sustainable and Value-Added Quality Education

MISSION

- ✔ To create competent Electronics and Tele-communication engineers with Knowledge, Skill and Attitude by establishing a conducive learning environment.
- ✔ To nurture technical competency, entrepreneurship skills and promote higher studies through the state-of-art facilities for building successful careers.
- ✔ To facilitate research by engaging in projects of industrial requirement and national importance.
- ✔ To impart Life skills, Ethical and Social values for self-sustainability.

OUR INPIRATIONS



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Founder President
Pimpri Chinchwad Education Trust



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**Prof. Kishore Kinage**

HoD ENTC

Managing Editor

ADVISOR'S MESSAGE

Professional development is an essential but often neglected aspect of career growth. Professional development refers to the process of enhancing one's professional skills, knowledge, and competence in order to meet the demands and expectations of one's field. It involves the development of practical theories and the construction of a professional identity, as well as the ability to take on various professional roles and uphold the professional status of one's field. Professional development is important because it has the potential to open opportunities for career advancement. Apart from technical knowledge, professional development means, Improving communication skills, taking on a leadership role and building a strong professional network to furthering your career.

For this purpose, we encourage our students to participate in ETSA-IETE-IEEE SPS activities. I wish all the best to Team ETSA-IETE-IEEE SPS for their future endeavours.



Dr. Ashwini Shinde
Managing Editor

ADVISOR'S MESSAGE

It is a pleasure to see the continued enthusiasm and dedication of the IEEE Student Branch at Pimpri Chinchwad College of Engineering. IEEE provides an excellent platform for students to explore emerging technologies, enhance technical skills, and develop leadership qualities. I encourage all members to actively participate in the initiatives, collaborate, and make the most of the opportunities offered through IEEE. This edition of our technical magazine provide an excellent platform for students to share ideas, showcase innovation, and express their technical perspectives. My best wishes to the entire team for their continued success.



Dr. Swati Patil
Managing Editor

ADVISOR'S MESSAGE

ETSA is the Electronics and Telecommunication Student Association, a platform created by the students for the students. Primary commitment of the ETSA is to provide responsible and equitable student leadership and to mirror the opinions and concerns of all segments of the department. All the events and activities organized attempts to motivate students in campus life and form a close-knit interdisciplinary, multinational student community at the E&TC Department. I wish all the best for Team ETSA for their bright future and dreams.




Kaivalya Katti

President
ETSA PCCOE

PRESIDENT'S MESSAGE

As the President of the Electronics and Telecommunication Students Association, I've embraced the opportunity to lead with purpose and passion. My mission is to empower members, fostering creativity and promoting innovative ideas. I have organized a range of events, from technical workshops on advanced topics like machine learning model deployment to non-technical celebrations such as Teacher's Day, as a token of love and appreciation. By inviting experienced industrialists for insightful sessions, I've ensured a balance that caters to diverse interests. I strive to uplift my peers, encouraging their growth and collaboration in all endeavors.

By leveraging social media and networking, I've built lasting connections that add immense value to our community. Every day, I learn something new, reinforcing the importance of adaptability and vision. Leadership is challenging yet rewarding, offering lessons in resilience and teamwork that shape not only our association but also my personal growth journey.

 [Kaivalya Katti](#)



Eshal Shaikh
Chairperson
IEEE PCCOE

CHAIRPERSON'S MESSAGE


At the IEEE SPS Student chapter, we work to bring innovation, collaboration, and learning opportunities to students like us at PCCOE.

Over the past year, our chapter has worked hard to provide a platform for students to gain practical knowledge by coordinating various hands-on workshops, technical sessions and interactive events.

These efforts are aimed to bridge the gap between theoretical knowledge and practical applications for our fellow batchmates.

Our achievements would not have been possible without the constant support and mentorship provided by our faculty members. Their efforts helped us overcome challenges and execute our ideas flawlessly. I would also like to extend my gratitude towards our team, for all the efforts and hardwork they have put up for the success of events conducted.

As we move forward, we remain focused on our goal, that is, to provide more learning opportunities for students to grow and with that make ourselves professionally sound. Finally, I would like to thank the Electronics and Telecommunication department for providing us with this wonderful opportunity.

 [Eshal Shaikh](#)

EDITOR'S MESSAGE



Nimisha Halabe
Senior Editor



Asmita Patange
Senior Editor

Welcome to ETSA Connect, the official magazine of the Electronics and Telecommunication Students' Association (ETSA) at PCCOE. This magazine serves as a vibrant chronicle of the events, seminars, and activities conducted under ETSA, the IEEE SPS PCCOE Student Chapter, and the IETE Students Forum PCCOE.

Through ETSA Connect, we aim to celebrate the achievements and creativity of our students and faculty while providing a platform for knowledge sharing and collaboration. The magazine showcases a rich collection of event highlights, technical articles, innovative projects, and inspiring success stories. It reflects the spirit of innovation, learning, and community that defines our association.

We hope this magazine ignites curiosity, inspires ideas, and fosters a sense of belonging among our readers. Happy reading!

 [Nimisha Halabe](#)

 [Asmita Patange](#)

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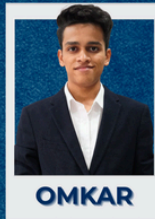
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EVENTS

INDUCTION

Date : 18th August 2025

Mode of Conduction : Offline

The Electronics and Telecommunication Students Association (ETSA), in collaboration with the IEEE Signal Processing Society (SPS) Student Chapter and the IETE Students' Forum (ISF), conducted an impactful induction program designed to welcome new talent and solidify the organization's leadership structure. The event was honored by the presence of Chief Guest Ms. Prerana Rajesh Markar and HoD Dr. K.S. Kinage, beginning with a soulful Saraswati Pooja followed by motivational addresses that underscored the importance of technical excellence and integrity. A pivotal moment of the ceremony was the formal introduction of the newly established Advisory Council and the official appointment of the Office Bearers, alongside the induction of enthusiastic new faces from the Second Year (SY) team who represent the next generation of student leadership. Through the distribution of badges and batons, and a solemn Oath Ceremony where leaders pledged to uphold their duties with sincerity, the program successfully bridged the gap between different year groups and associations. With strategic roadmaps presented by the ETSA and IEEE heads and a concluding vote of thanks, the day established a powerful foundation of unity and professional commitment for the academic year ahead.



IEEE SPS DAY SIGNAL XPLORE

Date : 8th to 12th June 2025

Mode of Conduction : Offline

The IEEE Signal Processing Society Student Chapter of Pimpri Chinchwad College of Engineering organized SignalXplore – PPT Making Competition to celebrate SPS Day and promote research-driven learning among students. The event encouraged participants to dive into IEEE research papers in the field of signal processing and present their understanding through structured PowerPoint presentations.

Each participant prepared 6–10 slides covering the key concepts, methodology, and major findings of their assigned paper using a standardized template. The competition witnessed enthusiastic participation, with students demonstrating strong analytical skills and clarity in explaining complex technical ideas. Presentations were judged on content quality, technical depth, visual appeal, and overall impact.

The event provided an excellent platform for students to enhance their research interpretation and presentation skills while building confidence in communicating advanced technical concepts. SignalXplore successfully fostered academic curiosity, innovation, and research awareness among students

PCET's
Pimpri Chinchwad College of Engineering
Department of Electronics and Telecommunication

IEEE Signal Processing Society

IEEE SPS PCCOE STUDENT CHAPTER

as a part of celebrating

IEEE SPS DAY 2025

presents

SIGNALXPLORE : PPT Making Competition

"Decode Research, Design Slides!"

Dive into the world of Signal Processing!

- Each participant will be assigned a paper.
- Design a 6-10 slide PPT summarising the paper, a PPT Template will be provided.

Deadline for registration
8th June 2025

Deadline to submit ppt
12th June 2025

Win Cash Prizes!

1st Prize: ₹ 1000
2nd Prize: ₹ 500

Student Co-ordinators

Janhavi Deshpande - 7774011966
Girish Kanoje - 9373545161
Kaivalya Katti - 9529939986

Scan for Registration!

IEEE SPS PCCOE STUDENT CHAPTER @ieeespspccoe

IEEE EUREKA 2025

Date : June – July 2025

Mode of Conduction : Offline

As part of the IEEE Eu-Reka initiative by the IEEE Pune Section, students from the Department of Electronics and Telecommunications at Pimpri Chinchwad College of Engineering conducted an outreach program titled “Making Gardens Smarter Using IoT and AI.” The sessions aimed to introduce school students from both rural and urban backgrounds to modern technologies like IoT, artificial intelligence, and smart irrigation systems.

Through interactive presentations and hands-on demonstrations using microcontrollers and sensors, the team reached over 250 students across four schools. Despite infrastructural limitations in some rural institutions, student participation and curiosity remained high. The initiative not only created awareness about STEM opportunities but also enhanced the team’s communication and leadership skills. Its impact was recognized at a competitive level, securing a place among the Top 30 projects in IEEE Eu-Reka 2025.



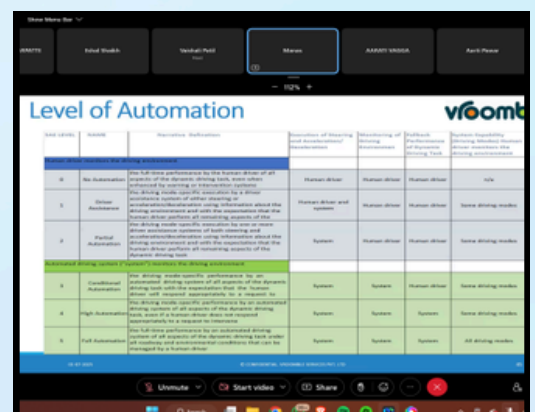
ONLINE STTP “ADVANCING AUTONOMOUS MOBILITY THROUGH ADAS”

Date : 30th June – 5th July 2025

The Department of Electronics and Telecommunication Engineering at Pimpri Chinchwad College of Engineering organized the ONLINE SHORT TERM TRAINING PROGRAMME (STTP) 2025-2026 on “Advancing Autonomous Mobility through ADAS” in association with IEEE Pune Section and the IEEE SPS Student Chapter. The six-day program covered key topics including ADAS technologies, levels of vehicle autonomy, AI and deep learning, sensor fusion, computer vision, HMI, and safety standards, delivered by industry experts and academicians. The initiative aimed to build strong fundamentals in intelligent mobility and automotive innovation.

The sessions combined conceptual learning with hands-on training using tools like MATLAB and Simulink to design and simulate features such as lane keeping assist and adaptive cruise control. Real-world case studies and practical demonstrations enhanced the learning experience. With active participation from students and industry professionals, the STTP successfully bridged academia and industry while strengthening practical skills in autonomous mobility technologies.

Mode of Conduction : Online



DI SPEAKER SESSION “EASY AND LAZY TECHNICAL WRITING”

Date : 10th July 2025

Mode of Conduction : Offline

The IEEE Signal Processing Society Student Chapter at Pimpri Chinchwad College of Engineering organized a Distinguished Industry Speaker Session titled “Easy and Lazy Technical Writing: Solid Logic to Invoke an Aha-Experience” on 10th July 2025. The keynote speaker, Akihiko Ken Sugiyama, a renowned research engineer with over 40 years of experience, shared valuable insights on effective technical writing. He emphasized clarity, logical structuring, and simplicity in presenting complex technical concepts, encouraging participants to communicate research ideas more effectively.

The interactive session focused on practical strategies to simplify the writing process without compromising quality. Students, faculty members, and research scholars actively engaged in discussions, gaining essential skills in structured thinking and impactful presentation. Supported by various IEEE Pune chapters, the event successfully bridged academic learning with industry expectations, inspiring participants to approach technical communication with confidence and creativity.



STTP “EDGE AI WORKFLOW DESIGN”

Date : 14th July to 19th July 2025

Mode of Conduction : Offline

The Department of Electronics and Telecommunication Engineering at Pimpri Chinchwad College of Engineering organized a six-day training program titled “Edge AI Workflow Design” in association with the IEEE Signal Processing Society Pune Student Chapter, Institute’s Innovation Council, and ETSA. Conducted from 14th to 19th July 2025, the program focused on developing and deploying AI models on embedded systems using ARM processors and STM32 microcontrollers. Led by industry expert Mr. Chiranjeevi Guruvindapudi from DigiToad Technologies, the sessions introduced participants to Edge AI concepts, data acquisition, anomaly detection, embedded machine learning, and TensorFlow Lite model deployment.



The training combined theoretical understanding with extensive hands-on practice, including real-time sensor data logging, motor anomaly detection, motion-based CNN model training, and deployment of AI models on STM32 hardware. Participants also presented mini-projects such as gesture recognition and audio classification, gaining practical exposure to AIoT, embedded vision, and robotics applications. The program concluded with product demonstrations, a quiz, and a certification ceremony, successfully strengthening students’ skills in embedded AI systems and encouraging innovation in Edge computing technologies.

TEACHERS DAY CELEBRATION

Date : 9th September 2025

Mode of Conduction : Offline

The Teacher's Day Celebration organized by the ETSA-ISF Association at Pimpri Chinchwad College of Engineering on 9th September 2025 was a heartfelt tribute to the dedication and guidance of faculty members. Held at the Auditorium Hall, the event began with a soulful Ganesh Vandana by the Art Circle, setting a serene and respectful tone. Fun activities like "Guess the Movie through Emojis" and a lively music jamming session created an engaging atmosphere, allowing teachers and students to connect beyond the classroom in a joyful and informal setting.

The celebration continued with an entertaining round of Passing the Parcel exclusively for teachers, filling the hall with laughter and memorable moments. As a token of gratitude, faculty members were presented with personalized keychains, symbolizing appreciation and respect. The event beautifully strengthened the bond between students and teachers, leaving everyone with cherished memories and a deeper sense of gratitude for the invaluable role educators play in shaping lives.



IEEE DAY CELEBRATION : TECH TREK

Date : 21th to 28th September 2025

Mode of Conduction : Online

To celebrate Engineer's Day, the ETSA-ISF and IEEE SPS Student Chapter at Pimpri Chinchwad College of Engineering organized TECH TREK 2025 from 21 to 28 September 2025. The event was designed to promote innovation, creativity, and modern design thinking by encouraging students to explore AI-based tools for technical expression. Participants were given opportunities to present engineering concepts through structured and visually compelling formats, combining technical knowledge with imaginative problem-solving. The initiative aimed to enhance both technical depth and creative confidence among students.

Students showcased innovative themes such as conceptual 3D models and futuristic engineering ideas enhanced with AI-generated visuals. The evaluation focused on creativity, conceptual clarity, relevance, and effectiveness in communication. The event witnessed enthusiastic participation and high-quality submissions, reflecting strong engagement. TECH TREK 2025 successfully fostered experimentation, digital proficiency, and presentation skills, reinforcing the importance of AI-assisted design in modern engineering workflows.

Winners:

1. Pushkar Choudhary
2. Harshal Patil
3. Aaryan Nerkar



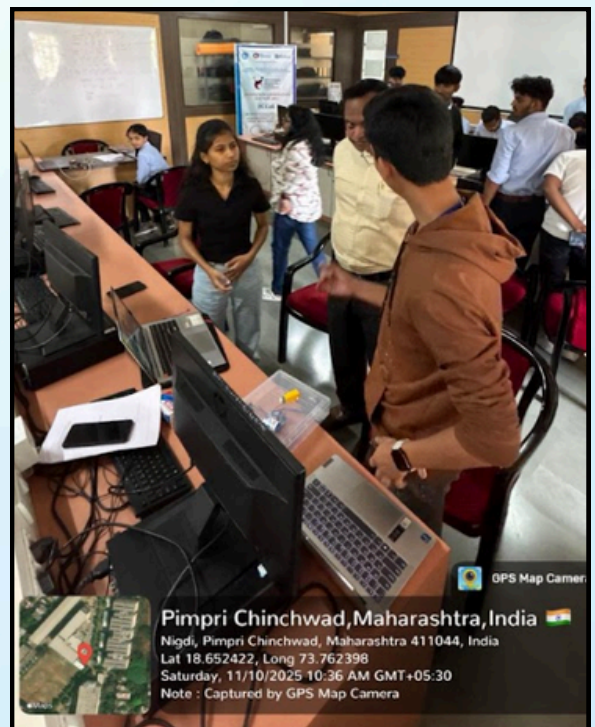
DSP MINI PROJECT COMPETITION

Date : 11th October 2025

Mode of Conduction : Offline

The Mini Project Competition under the Digital Signal Processing (DSP) course was organized on 11th October 2025 for third-year students at Pimpri Chinchwad College of Engineering. The event was conducted from 9:00 a.m. to 1:00 p.m. with active participation from all batches. Students worked in teams of two to three members and presented their projects before faculty judges. The evaluation was based on clarity of concept, innovation, technical implementation, teamwork, practical application, and presentation skills.

The competition aimed to help students apply theoretical DSP concepts to real-world problems. Various projects were showcased in areas such as signal analysis, filtering, speech and image processing, and real-time applications. The judges appreciated the creativity and enthusiasm of the participants and provided constructive feedback for improvement. The event promoted peer learning and collaboration among students. Overall, the competition was successful in enhancing technical knowledge, confidence, and innovative thinking.



Winners:(Division wise)

A: Patwari Hridaya Harshal

B: Anjali Poddar, Shubhang Gandhi

C: Vivek Deshmukh, Eshal Shaikh

ALUMINI CORNER

From Idea to Impact: My Journey from Curiosity to Product Development

Guruprasad Deshpande

Application Development Analyst at Accenture
Alumnus of Batch 2025



Innovation rarely begins with a grand vision—it often begins with a simple question. For me, that question emerged at the end of my first year in engineering: Can technology help farmers decide which crop to grow? Agriculture in India faces constant uncertainty due to changing soil conditions, weather patterns, and market dynamics, yet many farmers still rely on intuition rather than data-driven insights. This curiosity led me to write my first research article, “Opportunities in Crop Deciding Platform,” exploring how digital platforms and data could guide agricultural decisions.

Soon, the idea moved from theory to experimentation. I began working with machine learning models to analyze environmental factors affecting crop selection. This resulted in my research paper “Comparison of Classification Algorithm for Crop Decision Based on Environmental Factors Using Machine Learning,” where I evaluated different algorithms for predicting suitable crops using soil and climate data. While developing these models, I realized that strong algorithms depend on reliable data—something often difficult or expensive to obtain in real agricultural environments.

This challenge pushed me toward hardware innovation. During my internship at the Indian Institute of Tropical Meteorology, Pune, I developed an IoT-Based Low-Cost Soil Moisture and Soil Temperature Monitoring System to make environmental data collection affordable and accessible. Combining real-time sensing with machine learning eventually led to my final-year innovation project and patent work, CropIT, an AI-based decision support system that helps farmers select suitable crops based on local environmental conditions.

Along the way, co-founding the early-stage venture Electrolaxme helped me understand that building technology is only part of innovation—creating solutions that people actually use is equally important. What began as a simple curiosity gradually evolved into research, prototypes, and real-world solutions. Innovation is rarely a single breakthrough—it is a continuous process of learning, building, testing, and improving. Sometimes, all it takes is planting one small idea.

 [Guruprasad Deshpande](#)

Building PrarambhX: Engineering the Next Generation

Tanmay Rajput

Founder at Prarambh
Alumnus of Batch 2025



My journey into aviation didn't begin with building drones. I first joined Team Maverick India as a photographer, simply there to capture moments. But being surrounded by people passionate about flight drew me into the world of UAVs. What started as curiosity soon became commitment, and over time I grew from camera operator to captain, leading the team to AIR 1 in Technical Presentation and AIR 5 Overall at the SAE Drone Development Challenge, Chennai.

These experiences inspired me to pursue something beyond competitions. I worked on prototyping in-house GPS hardware at an early-stage startup and later joined Griffyn AI Labs as a UAV Integration Intern, where I gained practical exposure to UAV systems and integration.

In January 2025, I made a difficult decision to step away from the internship and build something of my own. Along with teammates from Team Maverick and PCCOE, I founded PrarambhX Technologies with the vision of developing India's first AI-Accelerated Flight Controller (Geosense) and a Modular Logistics UAV.

To support the deep-tech development, we began conducting drone workshops in schools. The journey started with multiple rejections and a first workshop that ran at a loss. However, persistence and continuous improvement helped us move forward. Eventually, six JNV schools across Maharashtra and Goa partnered with us, generating ₹3.65+ lakh in revenue within three months.

What began with a camera in a drone lab gradually evolved into building a startup focused on aviation technology. Today, we are actively refining our flight controller architecture and developing scalable UAV platforms for real-world applications.

Our objective is not only to build drones but to contribute to the development of reliable, indigenous aerial technology in India. Each prototype, experiment, and field test continues to strengthen this vision. The journey is still at a very early stage, but the direction is clear and the mission remains ambitious.

 [Tanmay Rajput](#)

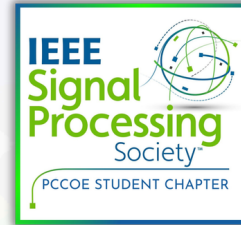
ABOUT US



ETSA



ISF



IEEE SPS

ETSA – ISF – IEEE SPS is a students' forum for the students and by the students. The association's main objectives are:

- To create a platform for students to plan, organize and execute various activities in the interest of student development.
- It's an association of students for students and by students. To promote the general welfare of the students; to encourage personal responsibility & loyalty

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