

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING ANNUAL REPORT E&TC DEPARTMENT

ACADEMIC YEAR 2024-25

EDITORIAL TEAM

DR. K. S. KINAGE
DR. RASHMI V. PATIL

STUDENT EDITORS

ISHA DESHPANDE
AAYUSH BENADE
RIDDHI KULKARNI
SHRUSHTI TINKHEDE



Department Details at a Glance

The Department of Electronics and Telecommunication Engineering at PCCoE is committed to delivering a stringent, industry-aligned academic curriculum that equips students with both foundational knowledge and practical skills required in today’s rapidly evolving technology landscape. The teaching-learning process is structured to meet global standards, with a strong emphasis on emerging technologies such as VLSI, Embedded Systems, AI/ML, IoT, Signal processing, Power electronics, automotives, and 5G communication. Faculty members actively engage in continuous upskilling, curriculum enrichment, and innovative pedagogy to bridge the gap between academics and industry. Through hands-on labs, project-based learning, internships, and industry collaborations, the department ensures that students are not only academically proficient but also industry-ready. The faculty’s dedicated efforts in mentoring, research, and outreach contribute significantly to shaping well-rounded engineers prepared to meet real-world challenges.

Intake and Status of NBA Accreditation of E & Tc Department

UG and PG Program	Starting Year	Intake	NBA-I	NBA-II	NBA-III
UG- I shift	2001	120	UG B.E. NBA accredited from Academic Year (A. Y.) 2013-15, 2016-19 ,2019-22 and 2022 to 25 (Up to 30th June 2025)		
UG- II shift	2010	60			
PG- VLSI and Embedded Systems	2012	18			
			NBA accredited from Academic Year (A. Y.) 2024-25 for three years		

Ph.D. Programme in E & Tc

- The department is a recognized **Research Centre of Savitribai Phule Pune University** in Electronics and Telecommunication Engineering.
- There are a total of **five approved Ph.D. supervisors** in the department.
- Eleven **faculty members** have successfully completed their Ph.D. in the last five years.
- Currently, **nineteen faculty members** from the department are pursuing their Ph.D.

ACADEMICS

Highlighted Events in 2024-25 to strengthen Academics

Sr. No.	Name of Faculty	Name of the Event	Resource Person /Eminent Speaker	Beneficiaries	Date and Time
1	Dr.Rajani.P.K,Mrs.A.S.shinde & Dr.V.K.Harpale	STTP on "EDGE AI WORKFLOW DESIGN"	Mr.Rohit Prajapati, Technical Director DigiToad Technologies	26	22nd to 27th July 2024.
2	Dr. Deepti Khurge, Dr. S.D.Nagrале	Synopsys - EDA tool FLOW	Narendra Korlepara, Sr. Director, Applications Engineering team , Site Head of Synopsys Hyderabad.	-	Oct 9th , 2024,
3	Dr. Deepti Khurge	ASIC Design Flow	Prasanna Shah, ASIC Director EInfochips	-	Nov 14 2024
4	Dr Anjali Shrivastav,Dr Rashmi Patil	Workshop	Mr.Jeeavan P URS,application Engineer from CoreEL Technologies(I) Pvt Ltd,Banglore.		28th September 2024 from 9:00am to 6:00pm
5	Dr.U.R.Shirode, Dr.A.S.Pawar	Seminar	Dr. Nachiket Deshmukh (VARRAC Pvt.Ltd.)	30	14th Sept 2024
6	Dr.Dipti Khurge, Dr.Rajani.P.K,Dr .Sandip Mali	Avishkar-2024 Research/Project Competition	Judes from all departments	61	24-09-2024
7	Dr.Rajani.P.K	Institution's Innovation Day 2024	Dr.Umesh Potdar, Head of BvoC and associate Professor, PCCoE	57	15-10-2024
8	Dr. Rajani.P.K, Dr. Swati Jagtap, Mrs. Ashwini Shinde,	AI-Driven Model-Based Design: Real-Time Deployment with Simulink & Raspberry Pi	Mr. Kunal Khandelwal at DesignTech Systems Pvt. Ltd., Application Engineer-MathWorks	74	22nd February 2025
9	Dr. Rajani.P.K, Mr.Mubin Tamboli & Dr.Abhay Lingayat	Entrepreneurship Skill Test	Mr. Yogiraj Deokar,Dy.Director, Maharashtra Centre for Entrepreneurship Development	80	March 8th 2025

Academic Laurels

Academic Result: AY 2024-25 SEM I

Sr No	Class	%Result	No of Distinction
1.	SY	74.89	63.87
2.	TY	74.89	56.7
3.	BE	89.66	85.71

RESEARCH AND DEVELOPMENT

Research Profile of Department at a Glance

Year	2024-25
Journals	6
Conferences	16
Book chapters	1
Total	23

Interaction with Outside World

Sr. No.	Name of Faculty	Resource Person/ Reviewer/Judge/Expert	Name of Event	Place	Date
1	Dr. Prakash V. Sontakke	Reviewer	IEEE Internet of Things Journal	Online	01st Jan 2025
2	Dr. Prakash V. Sontakke	Reviewer	IEEE International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Applications (ICAIQSA-2024)	G H Raisoni College of Engineering Nagpur,	20th & 21st December 2024
3	Suvarna Kadam	Reviewer	IEEE Access Multidisciplinary	Online	01st Jan 2025
4	Suvarna Kadam	Reviewer	Inderscience Publishers Int. J. of Signal and Imaging Systems Engineering	online	August 2024
5	Suvarna Kadam	Reviewer	IEEE Acces	online	February 2025
6	Dr Mahesh Kolte	Resource Person	AICTE approved 3-days face to face FDP on UHV	Gharda Foundation's Gharda Institute of Technology, Khed (Ratnagiri), Maharashtra	01-03 July, 2024
7	Dr Mahesh Kolte	Resource Person	AICTE approved 3-days face to face FDP on UHV	G H Raisoni College of Engineering and Management, Jalgaon	27-29 June, 2024
8	Dr Mahesh Kolte	Resource Person	AICTE approved 3-days face to face FDP on UHV	N B Navale Sinhgad College of Engineering, Solapur, Maharashtra,	8th June to 10th June 2024
9	Dr Mahesh Kolte	Resource Person	6-day RESIDENTIAL face to face FDP on UHV	Rajya Anand Sansthan, Bhopal, MP	18 - 23 June, 2024

10	Dr Mahesh Kolte	Co-facilitator	AICTE approved 8-days face to face FDP on UHV	JSPM's Rajarshi Shahu College Of Engineering, Tathawade, Pune	17-24 July, 2024
11	Dr Rashmi Patil	Reviewer	8th International Conference on Computing, Communication, Control and Automation	Pimpri Chinchwad College of Engineering ,Nigdi ,Pune	23 rd to 24th August 2024 .
12	Dr Rashmi Patil	Reviewer	AECE 2024 technically cosponsored by IEEE UP section	R K G I T,Gaziabad,UP,India	22-23 November 2024
13	Dr.Rajani.P.K	Technical Committee	International Conference on Imaging, Signal Processing and Communication (ICISPC) IEEE CONFERENCE	Fukuoka, Japan	19-21 July 2024
14	Dr.Rajani.P.K	Resource Person	Capgemini MBD Training 2024	Online	5th July 2024 (Session 11)
15	Dr.Rajani.P.K	BoS Member	5th BoS meeting for Syllabus and structure framing	TCET,Mumbai	30th November 2024
16	Dr.Rajani.P.K	Jury member IEEE	IEEE Awards	IEEE Pune Section	Dec-24
17	Dr.Rajani.P.K	Expert	External Examiner and paper setter for Data Science in the MIT World Peace University	MIT WPU, Pune	Oct-24
18	Dr.Rajani.P.K	Faculty Mentor	Edge AI Innovation Challenge 2024	organized by DigiToad Technologies in collaboration with STMicroelectronics	Oct-24
19	Dr.Rajani.P.K	Evaluator	Internal Smart India Hackathon 2024	PCCOE,PUNE	09-05-2024
20	Dr.Rajani.P.K	Faculty Mentor	Aakruti Global Design Contest 2024	Dassault Systems	Oct. 2025

FDP/Workshop/etc Attended

Serial No	Name of the Event	Details of Event	Name of Faculty	Date of Event
1	"Generative AI for AR and VR"	STTP	Mrs Archana Bhamare	24th June to 28th June 2024
2	"Recent Trends in Electrical Engineering and Teaching Padagogy"	STTP	Mrs. Pranjal Jog	24/06/2024 to 29/06/2024
3	"Application of AI & ML on Renewable Energy and EV Technologies"	STTP	Mrs. Pranjal Jog	08.06.2024 to 12.06.2024.
4	A comprehensive power system optimisation tool GAMS	FDP	Mrs. Pranjal Jog	21/5/2024 to 25/5/2024
5	"21st century:Recent trends,challenges,and future roadmap for trnasitions in technological	FDP	Mrs.Kalpna patil	25/4/2024 to 30/4/2024

	generations"			
6	"Jumpstart Proposals: Navigating the Basics of Proposal writing for Beginners"	Workshop	Mrs. Supriya A. Vaishnav	3 rd July 2024.
7	"Recent Advances on Low Phase Noise mmWave Oscillators"	Webinar	Mrs. Supriya A. Vaishnav	July 11, 2024
8	"Generative AI for AR and VR"	STTP	Mrs. Mrunalini Bhandarkar	24th June to 28th June 2024
9	"Generative AI for AR and VR"	STTP	Mrs Sonal Shirke	24th June to 28th June 2024
10	AI And Gen AI with Industry Application	FDP	Mrs. Mrunalini Bhandarkar	16 July to 22 July 2024
11	Edge AI workflow Design	Workshop	Mrs. Mrunalini Bhandarkar	22 July to 27 July 2025
12	Leveraging Cutting Edge Technologies for Sustainable Agriculture Practices	FDP	Mrs. Mrunalini Bhandarkar	2 December to 7 December 2024
13	"Mastering AI Tools for Faculty Excellence"23 12 to 27 12 2024	FDP	Mrs Sonali Sawant	23Dec-27 Dec 2024
14	"Advancements in AI with IoT for Sustainability"	FDP	Dr. Prakash V. Sontakke	16th Dec 2024 to 20th Dec 2024
15	"AI innovations and Matlab Solutions"	FDP	Dr. Prakash V. Sontakke	23rd to 28th Sep 2024
16	"Empowering innovations comprehensive approaches to research and development"	FDP	Dr. Prakash V. Sontakke	12th to 17 Aug 2024
17	"National Intellectual property awareness mission"	STTP	Dr. Prakash V. Sontakke	30 July 2024
18	"Virtual Labs: Handson outreach workshop"	Workshop	Dr. Prakash V. Sontakke	17 Dec 2024
19	National Faculty Development Program on Cybersecurity	FDP	Dr. Prakash V. Sontakke	25th Jan to 30 Jan 2025
20	"Mastering AI Tools for Faculty Excellence"23 12 to 27 12 2024	FDP	Dr. Swati Jagtap	23Dec-27 Dec 2024
21	Neural Network Uncovered: A Hands on Workshop	Workshop	Mrs Archana Bhamare	25 Nov - 29 Nov 2024
22	IOT Integration with Embedded System	ATAL FDP	Mrs Archana Bhamare	6 Jan to 11 Jan 2025
23	AI & its Application in Research	ATAL FDP	Mrs Archana Bhamare	22 Jan to 25 Jan 2025
24	Neural Network Uncovered: A Hands on Workshop	Workshop	Mrs. Mrunalini Bhandarkar	25 Nov - 29 Nov 2024
25	Neural Network Uncovered: A Hands on Workshop	Workshop	Mrs Sonal Shirke	25 Nov - 29 Nov 2024
26	AI And Gen AI with Industry Application	FDP	Dr Rashmi Patil	16th July to 22nd July 2024
27	EDGE AI WORKFLOW DESIGN	Workshop	Dr Rashmi Patil	22nd to 27th July 2024.
28	Artificial Intelligence for Computer Vision & Image Processing	Refresher Course	Dr Rashmi Patil	01-05-2024 to 15-05-2024
29	Harnessing the Power of BioPython using PYNQ	Workshop	Dr Rashmi Patil	28th Sep 2024
30	AI based nature inspired optimisation methods	One week FDP	Mrs. Pranjali Jog	5/8/2024 to 9/8/2024
31	AI based nature inspired optimisation methods	One week FDP	Mrs. Suvarna Shete	5/8/2024 to 9/8/2024
32	IOT Integration with Embedded System	ATAL FDP	Mrs. Vaishali N. Patil	9/01/2025 to 11/01/2025
33	Generative AI Mastery: From	ATAL FDP	Mrs. Vaishali N.	16/10/2024 to

	Foundations to Applications		Patil	21/12/2024
34	VLSI Design for IoT and Edge Computing	ATAL FDP	Mrs. Vaishali N. Patil	20/01/2025 to 25/01/2025
35	Semiconductor Fabrication Technology	FDP	Mrs. Vaishali N. Patil	9/12/2024 to 14/12/2024
36	AI & Its Applications in research	ATAL FDP	Mrs. Mrunalini Bhandarkar	20/1/2025 to 25/01/2025
37	The Role of Artificial Intelligence and Machine Learning in Electric Vehicle Technology	ATAL FDP	Mrs. Vaishali N. Patil	10th Feb to 15th Feb 2025
38	Research Trends in Cloud Computing and Cloud Security	STTP	Mrs. Vaishali N. Patil	13th Jan to 17th Jan 2025
39	Transformative Education: Integrating AI tools with Outcome based learning	STTP	Dr. Ujwal R. Shirode	05th August to 11th August 2024
40	"EDGE AI WORKFLOW DESIGN"	STTP	Dr. Rajani. P. K.	22nd to 27th July 2024.
41	AI Day for Startups	Workshop	Dr. Rajani. P. K.	6-7-2024
42	Leadership Development Program through Outdoor-Based Experiential Activities	FDP	Dr. Rajani. P. K.	10th to 12th December 2024
43	Innovative Teaching Strategies and Tools in the Digital Age	FDP	Dr. Rajani. P. K.	02 to 15 December 2024
44	INNOVATION AND ENTREPRENEURSHIP TRAINING	FDP	Dr. Rajani. P. K.	1/8/2024 TO 2/8/2024
45	Fundamentals of Control System Design using MATLAB & Simulink	Mathworks	Dr. Rajani. P. K.	12-05-2024
46	Extreme Leadership: Pushing Limits and Driving Change	NPTEL + Workshop	Dr. Rajani. P. K.	30th November 2024

MOUs Signed

1. Name of Company/Institute: Synopsis International Limited

Type of collaboration	MOU
Effective from AY	2024
Collaboration from date	13 September 2024
Collaboration to date	
Description	
Faculty Coordinator	Dr Sheetal Bhandari

2. Name of Company/Institute: COEP

Type of collaboration	MOU
Effective from AY	2024
Collaboration from date	September 2024
Collaboration to date	
Description	
Faculty Coordinator	Dr N.B.Chopade

3. Name of Company/Institute: Drushtihin Kalyan Sangh

Type of collaboration	MOU
Effective from AY	2025
Collaboration from date	13 January 2025
Collaboration to date	
Description	
Faculty Coordinator	Mr.Swapnil S. Ayane

Research Proposals Submitted

1. Name: Mahesh Kolte, Varsha Bendre

Amount: Rs. 1200000

Title of Proposal: The Impact of AI-Powered Mental Health Support on Employee Well-being and Organizational Performance: A Longitudinal Study under mental health and social inclusion

Sanctioned Date/submission date: August 2024

Sanctioning Agency/Scheme under which applied: ICSSR Longitudinal Studies in Social and Human Sciences

2. Name: Dr.Rajani.PK, Dr.V.S.Bendre & Dr.D.S.Khurge

Amount: Rs. 29,98,279

Title of Proposal: Accurate Flood Prediction in the Mumbai Region Using an Integration of Different Dataset with Deep Learning Model

Sanctioned Date/submission date: 31 January 2024

Sanctioning Agency/Scheme under which applied: Power Grant-SERB

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Sr. No.	Title of Copyright	Name of Faculty	Diary No.	Date of Registration
1	Development Of Effective Image Restoration Technique For Quality Improvement Of Mri Images	Supriya Ashok Vaishnav,Dr. Varsha K. Harpale	5932/2024-CO/L	23/02/2024

Patents Filed/Granted

Title	Patent Application Number	Status
Self Sustaining Dual Axis Solar Tracking system method	202421103 424	published
A touchless interface device with a floating display effect and gesture control	202421097210	published

Faculty Journal Publications:

Sr. No	Title	Author	Journal/Conference Details	SCI/Scopus /UGC/Other/ Non UGC	Date of Publication
1	Design and Simulation of GPU based Real time Lateral Collision Warning System	Nilesh Patil, Dr. N. B. Chopade, Manish Narkhede, Vaishali Patil	Indian Journal of Technical Education	UGC	September 2024
2	"Non-invasive Anemia Detection and Prediagnosis."	Santosh Aiwale, Mahesh T. Kolte, Varsha Harpale, Varsha Bendre, Deepti Khurige, Sheetal Bhandari, Suvarna Kadam, and Altaf O. Mulani	Journal of Pharmacology and Pharmacotherapeutics	UGC-CARE List, SCOPUS and ESCI, Q4	December 2024
3	Thyroid Ultrasound Image Detection and Classification Using Metaheuristic Optimization-based Classifier.	Varsha Bendre	International Journal of Intelligent Engineering and Systems	Scopus Q2	22/07/2024
4	Design and Analysis of Slotted Microstrip Patch Array Antenna at 2.4GHz for WLAN	Mrs. Swati Patil, Dr. V.N. Patil	Wireless Personal Communication	SCIE, Q2 Scopus	October 16, 2024
5	Modified four-port dual-band (FPDB) scaled rectangular inset-feed MIMO antenna for 5G-millimeter-wave applications including 28.0 GHz/38.0 GHz bands	Mrs. Swati Patil, Dr. V.N. Patil	Optical and Quantum Electronics	SCIE, Q2 Scopus	October 21, 2024
6	Smart Shield: An IoT-Based Fall Detection, GPS Tracking, and Health Monitoring System Using ESP8266	Ashish Pathak, Vinayak Patil, Vaishali Patil, Vaishnavi Pujari	IJARIT	Springer	December 13, 2024
7	ML-powered Internet of Medical Things (MLIoMT) Structure for Heart Disease Prediction	Altaf O. Mulani, Mohini P. Sardey, Kishor Kinage, Shweta Sadanand Salunkhe, Tanuja Fegade, Poonam Girish Fegade	Journal Of Pharmacology And Pharmacotherapeutics Ranking	ESCI/SSCI, Q4	October 30, 2024
8	Ensemble stacking classifier model for prediction of diabetes	Mrunalini Bhandarkar, Varsha S. Bendre, Yash Venkatesh Bellary, Anuj Kiran Bhole,	International Journal of Informatics and Communication Technology (IJ-ICT)	Scopus/Q4	1 December 2024

		Abhishek Abasaheb Bhadange			
9	Squeeze RNN with hybrid optimization: A novel approach for heart disease prediction using gene expression data.	Harpale VK	Intelligent Decision Technologies.	WoS	15th Jan 2025
11	Neural network-driven scenario prediction for adaptive routing in MANETs using expanding ring search and random early detection	Dr. U.R. Shirode	Evolutionary Intelligence	WoS	March 2025

Faculty Conference Publications

Sr.No	Title of the Paper	Author	Name of Conference	Publisher	Date of conference
1	Enhanced Health Care monitoring and Medication Reminders for Elderly Individuals using wearable sensors	Pranav Tilak, Rishabh Sharma, Ayush Kamble, Pratiksha Kadam, Varsha K. Harpale	2024 8th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	IEEE	Aug 2024
2	Comparative Study Of Quantum Algorithms: A Comprehensive Analysis	Neha Junagade, Sheetal Bhandari, Rachana Patil	2024 8th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	IEEE	Aug 2024
3	Design and Implementation of a Binary Sequence `Detector with Functional Verification, Synthesis, PnR, and STA using an open-source EDA tool	Deepti Khurge, Mahesh Kolte, Sheetal Bhandari, Prachi jadhav, Prajakta, Tejas	2024 8th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	IEEE	Aug 2024
4	Deep Learning-based Fault Diagnosis System for Solar Photovoltaic Panels Using EL Images	Sheetal Bhandari, Pramod Sonawane	ESTCON-ICSC2024	IEEE	Sept 2024
5	Static Noise Margin Evaluation of Planar CMOS and FinFET based Static Random	Ajjay S Gaadhe	5th International Conference on Recent Trends in Computer	IEEE	April 2024

	Access Memory for Nanoscaled Technology		Science and Technology		
6	Cloud-Integrated Braking ECU with ESP Technology	Kunal.A.Sonar, N.B.Chopade, Rajani.P.K	2024 8th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	IEEE	Aug 2024
7	Wide Frequency Range Negative Voltage Controlled Oscillator for Automatic Frequency Control	Dr Rashmi Patil,Rushikesh B. Bhandare,Rohini D. Katkar	2024 3rd International Conference for Advancement in Technology (ICONAT)	IEEE	Sep 13-14, 2024
8	Smart Aquarium Management System using Computer Vision and Image Recognition Technology	Dr Rashmi Patil,Mrs. Suvarna Kadam,Jaideep Bisen ,Janhavi Chati,Kshaunish Borkar	2024 2nd International Conference on Emerging Trends in Engineering and Medical Sciences (ICETEMS)	IEEE	22-23 November 2024
9	3GPP-n277 Band Microstrip Patch Antenna	Swati Patil, V.N.Patil	Third IEEE sponsored International Conference on electrical,Electronics,Information and Communication Technologies(IEEEICEEIT 2024)	IEEE EXPLORE R	24 -26 July 2024
11	Military spying Robot	Swati Patil,Snehal Ghojge,Vaishnavi Khedkar	The 8th International Conferene on Electronics and Software Science	AIP	26-27 Dec 2023
12	Analysis and Implementation of Ultra Low Power Wide Range Frequency Bias Differential Voltage Controlled Oscillator for Communication Systems	Dr Rashmi Patil,Dr Ajay Kalmegh	2024thInternational Conference on Advancement in Electronics & Communication Engineering(AECE)	IEEE	22-23 November 2024
13	Improving DR Diagnosis Accuracy with Deep Learning using Adjudicated Grading	Mrs Sharda Dhavale Dr Mrs Pushpa Bangare	2024 8th International Conference On Computing, Communication, Control And Automation (ICCUBEA)	IEEE	Aug 2024
14	Developing A Predictive Framework For	Sonal I Shirke	3rd International Conference on Automation,	IEEE	Dec 2024

	Smart Energy Trading In Interconnected Microgrids		Computing and Renewable Systems		
15	Smart Helmet with User Navigation Guidance Support	Archana Bhamare, Swati Jagtap, Om Bhore, Pranav Pedhekar and Vaibhav Atharale	2024 8th International Conference on Computing, Communication, Control and Automation (ICCUBEA),	IEEE	August 2024
16	Dynamic Solar Array: Harnessing Adaptive Energy Solutions	Springer	Tejas Bhonde1, Rashmi Patil2, Atharva Bidwaik3, Pratik Chaudhari4, and Suvarna Kadam5	Springer	
17	Machine Learning-based Energy Demand Forecasting	A. Bhamare, A. Pawar, U. Amate, O. Sarolkar and P. Nalawade	2024 8th International Conference on Computing, Communication, Control and Automation (ICCUBEA),	IEEE	August 2024
18	Establishing Vehicle to Vehicle Communication using DSRC protocol for Crash Avoidance	Rutuja V. shende, Varsha K. Harplae, Anjali A. Shrivastav	IEEE 3rd International Conference on Disruptive Technologies	IEEE	7-8th March 2025

PhD pursuing faculty details

Sr.No	Name of Student	Details of Guide (Name & Branch)	Title of PhD Topic	Date of registration	Status
1.	Mr. Ajit B. Patil	RSCOE , Pune (Savitribai Phule Pune University)	An Intelligent Approach For Optimization Of Energy Management In Smart Micro Grid	09-01-2018	Thesis Submitted in February 2024.
2.	Mrs. Suvarna Pankaj Kadam	South Africa Prof. S. Sinha (NZ) Dr. Wynand Lambrechts (S. A.) Dr. S. U. Bhandari (PCCOE)	Millimeter Wave Oscillator with differential tuning	19-03-2021	70% work completed
3.	Mrs Sharda M Dhavale	Dr Mrs Pushpa M Bangare	Severity analysis and grade classification of diabetic retinopathy	30-08-2022	Five progress and Coursework completed
4.	Mrs. Mrunal	Dr. Basudha	An Interactive Voiced	20/08/2	Completed 4

	S. Bhandarkar	Dewan (Supervisor), Dr. Payal Bansal (Co-Supervisor)	Interface for Farmers	021	Progress review.
5.	Mr. Pramod R. Sonawane	Dr. S.U. Bhandari	Reliability Analysis Model and Artificial Intelligence Based Fault Detection and Diagnosis for Solar Photovoltaic Plant	17/06/2022	5 Progrss Reviews are completed
6.	Mr. Kapil B. Kotangale	Dr. Yuvraj.V.Parkale	A Noise Robust Dysartric Speech Recognition based on Deep Convolution Neural Network	17-06-2022	5 Reviews and Coursework completed
7.	Mrs. Sonali Y. Sawant	Dr. Vibha Vyas	Endotracheal Tube Guidance Mechanism in Video Laryngoscopy:An Algorithmic Framework	31/1/2023	2 Prograss Review completed ,Course Work Completed with 7.89 CGPA in Month of February 2024 Topic registration done
8.	Mrs. Swati V.Patil	Dr.V.N.Patil	Design,Analysis and Characterization of 5G MIMO antenna for high speed wireless application	22-02-2021	Thesis Submitted on 21st January 2025
9.	Mr. Swapnil S. Ayane	Dr.Mukesh Tiwari	Determination of Primary Nutrient Defficiency in Plant using Deep Learning & Suggestion of Organic Fertilizer	05-10-2021	4 Reviews completed
10.	Mr. Ajay S. Gaadhe	Dr. Y. V. Parkale	Design of SRAM using advanced FET technology in nanometer regime	17-06-2022	4 Reviews and Coursework completed
11.	Mrs. Sangita A. Patil	Dr A.N. Paithane	Multimodal Stress Detection System Using EEG & ECG Signals Through Machine Learning Techniques	22-04-2022	4 Reviews completed
12.	Mrs. Archana V. Bhamare	Dr Vivek Upadhyaya (Supervisor), Dr. Payal Bansal (Co-Supervisor)	Artificial Intelligent based Vertical Hydroponic System	20/08/2021	Completed 4 Progress review.
13.	Mrs. Sonal I. Shirke	Dr. Sushil Jain (Supervisor), Dr. Payal	Smart Energy Trading for Interconnected Microgrids	20/08/2021	Completed 4 Progress review.

		Bansal (Co-Supervisor)			
14.	Ms. Isha B. Vyas	Dr. Ashutosh Bagde	Biomedical Engineering	28/10/2024	Course work completed
15.	Ms. Vaishnvi V Pujari	Dr. V. N. Patil	Design and development of Nadi Parikshan technique for diseases detection	25/01/2024	Course work completed
16.	Mrs. Supriya A. Vaishnav	Dr. Varsha K. Harpale	Development of Effective Image Restoration technique For Quality Improvement of MRI Images.	02-05-2023	Progress Review 3 Completed and Coursework in Progress.
17.	Mr. Prasad Maldhure	Dr. S. R. Ganorkar	Low Power High Speed VLSI Architecture for	18-02-2023	Thesis Submitted on 31/01/2025
18.	Mrs. Kalpana S. Patil	Dr. Varsha S. Bendre	Hybrid model of Image filtering and image Inpainting for Image Quality Enhancement	13/12/2022	Progress Review 3 Completed and Coursework in Progress
19.	Mrs. Suvarna S Shete	Dr. R. K. Kumawat	Battery Management System for SOC Estimation in Electric Vehicle	20-09-2020	6 Review completed

Faculties Remarkable Achievements

- Under the guidance of Dr. N. B. Chopade, six research scholars have been awarded Ph.D. degrees from Savitribai Phule Pune University, Pune.
- Dr. S. U. Bhandari organized an ATAL Faculty Development Program on “*Emerging Trends in Semiconductors*” in January 2024. Grant Sanctioned: ₹3,50,000/- and Funding Agency: AICTE
- Dr. M. T. Kolte was nominated as a Board Member of the SAE INDIA Western Section (SAEIWS) Electronics Board, under the Society of Automobile Engineers.
- Dr. Rajani P. K received the Women in Engineering of the Year Award 2024 from the IEEE Pune Section.
- Dr. Rajani P. K also secured 1st prize in an essay competition held on 10th March 2025, on the topic “*Breaking Barriers, Building Bridges: A Woman’s Perspective on PCCoE’s Progress*”. The competition was conducted by the Internal Complaint Committee (ICC) during International Women’s Day celebrations.
- Dr. V. S. Bendre received the Summer Faculty Research Fellowship under the Continuing Education Program organized by the Department of Electrical Engineering, IIT Delhi (from 3rd June 2024 to 12th July 2024).
- Dr. D. S. Khurge was certified by DAAD (German Academic Exchange Service) under the DIES ProGRANT Proposal Writing for Research Grants program, conducted by the University of Cologne. The program focused on practical-oriented training for early-career researchers in India, 2023.

Online Certifications

Sr. No.	Name of Faculty	NPTEL/Matworks/ Coursera/Udemy/Other	DATES	Duration/Hours	Course Name
1.	Sonali Sawant Y	NPTEL(FDP)	Jan-April 23	12 Weeks	Advanced Neural Science for Engineers
2.	Dr. Prakash V. Sontakke	CISCO Networking Academy	04-08-2024	22 Hours	Networking Basics
3.	Dr. Prakash V. Sontakke	CISCO Networking Academy	04-08-2024	6 Hours	Introduction to Cyber Security
4.	Dr. Prakash V. Sontakke	CISCO Networking Academy	04-08-2024	6 Hours	Introduction to Data Science

TRAINING AND PLACEMENT

Placement Summary

Sr. No.	Name of Company	Package (Lakh P.A)	Total No. of students placed in company	Already placed status(double placed)	Placement in core company	Final placed
1	AAIS Global	4.2	2	1		2
2	Accenture	4.5	13	11	--	13
3	AcmeGrade	4	1		--	1
4	Addverb Technologies	10	1		1	1
5	Capgemini	5.75	3	4		3
6	Capgemini	4.25	18	5		18
7	Capgemini (Automotive)	4.25	11		11	11
8	Capgemini (Embedded)	5.75	9	2	9	9
9	Capgemini (Embedded)	4.25	2		2	2
10	CC Tech	5	1			1
11	Cognizant GenC Next	6.75	1	1		1
12	Cognizant GenC	4	2			2
13	Dar	5.39	2			2
14	Deloitte	3	3			3
15	eInfochips	5	3		3	3

16	Hewlett Packard Enterprise	4	4	3		4
17	IBM	4.75	2			2
18	Infosys	3.6	2			2
19	KPIT	4.5	11	6	11	11
20	Niva Bupa	3.25	1			1
21	Qualis Engineers	2.4	1		1	1
22	Rudder Analytics	4.2	1			1
23	Sedemac Mechatronics	3.5	1		1	1
24	Tech Mahindra	3.25	5			5
25	Uno Minda	5.5	3	5	3	3
26	Vertiv	6	2		2	2
			Total offer :- 143			Single offer:- 105

Internship Summary

Total students who got Internship opportunities: 224

Internship in the Industry with Stipend

Sr. No.	Student Name	Class	Division	Company	Stipend
1.	Riya Makode	TY	B	Laxmivaas advisory portfolio and financial planning pvt. ltd.	25000
2.	Kshitij Neeraj Vaze	TY	C	Knorr-Bremse	20000
3.	Shravani Lalasaheb Late	TY	B	Philips Healthcare Innovation Centre	45000
4.	Arav Sahasrabudhe	TY	A	Script Analytica	10000
5.	Aditi Dayanand Shelar	TY	C	Philips Healthcare Innovation Center Pure	45000
6.	Vinayak Iragonda Patil	TY	B	ADDVERB TECHNOLOGIES NOIDA	25000
7.	Yash vijay jadhav	TY	A	Semtech Advanced systems	35000
8.	Shruti Vijay Shinde	TY	B	SecMyIT Infosec Solutions Pvt Ltd	8000
9.	Akshay Mahesh Iyer	TY	A	Bajaj Finserv	5000
10.	Darpan Neve	TY	A	Zarity Health Pvt. Ltd	20000
11.	Tanmay Rajput	TY	C	Jugnu Drones	10000

Company wise Bifurcation of Internship

Sr.No.	Company	No of students
1	Aarya precision technologies LLP	1
2	ABM corp	1
3	Acclivis Pvt. Ltd.	2
4	ADDVERB TECHNOLOGIES NOIDA	1
5	AICTE	12
6	Akshay Embedded Systems Pvt Ltd	2
7	Anand I power	1
8	Antara Technologies	1
9	Atlas Copco India Limited	1
10	Bajaj Finserv	1
11	Baumuller India	1
12	Brain Vision Technology	2
13	Brainchain	1
14	Philips Healthcare Innovation Center Pure	2
15	BSNL	4
16	Celebal Technologies	46
17	CFEE India LLP	1
18	Cludobits IT Solutions Pvt Ltd	1
19	CodeSoft	2
20	Coding Jr	1
21	Codtech IT Solutions	1
22	Cognifyz	1
23	Copper Cloud IOTech Pvt Ltd	1
24	Defence Institute Advanced Technology	11
25	Digital Enterprise	4
26	DRDO	2
27	eInfochips, An Arrow Company	18
28	Elcom International Pvt. Ltd	2
29	Electromotion e vidyut vehicle pvt.ltd.	1
30	EMERTXE	7
31	EnergyBae	1
32	Entuple Technologies	2
33	Ey Ernest and Young	1
34	Fihil services private limited	1
35	Flash Electronics Pvt. Ltd	1
36	Forbes Marshall	2
37	Force Motors Limited	1
38	FPL Technologies	1
39	Geeks for geeks	4
40	HIL Pvt Ltd	1
41	IIT Bhilai	1
42	In college Teams (Team Automatons)	2
43	In house PCCOE	6
44	InternPe Technologies	4
45	Intervue	1
46	ITech Robotics and Automation Pvt. Ltd	4
47	J K Systems	1
48	Jekuma Tools and Gaudges	1
49	JSW	1
50	Jugnu Drones	1

51	K Technology	2
52	Knorr Breamse CVS Pvt. Ltd	3
53	L&T Technology Services	1
54	Laxmivaas advisory portfolio and financial planning pvt. ltd.	1
55	Leap & Scale	1
56	Lear Corporation	1
57	LSI R&D Labs	1
58	Medicure Solutions Pvt Ltd	1
59	Medimaze Solutions Pvt Ltd	3
60	Microcon Power Electronic	1
61	Navodita Infotech	1
62	Nullclass Edtech Private Limited	1
63	PPCRC	1
64	Praj Industries	1
65	Prodigy Infotech	4
66	Quintrans hyperloop	1
67	Richs Products Corporation	1
68	Script Analytica	1
69	SecMyIT Infosec Solutions Pvt Ltd	1
70	Semi Hyphen	1
71	Semtech Advanced systems	1
72	Shree Arogyam Ayurveda	2
73	Shree calibration Measurement and Testing Services	1
74	SIEMENS	1
75	Skylink Communication	1
76	SpringUp labs	1
77	Stylectro Services Pvt. Ltd.	4
78	Tata motors	2
79	Tata Technologies	1
80	Team Kratos Racing Electric	2
81	Team Red Baron	2
82	Tech mahindra	1
83	Technokarteen Engineering PVT LTD	1
84	Techplement	1
85	Trutech Products	1
86	UNIFIED MENTOR Pvt Ltd.	1
87	Vedant Automation and Systems	1
88	WSA	1
89	Zarity Health Pvt. Ltd	1
90	Zapient digital	1
	Total	224

STUDENT DEVELOPMENT AND WELFARE

Higher studies Cell

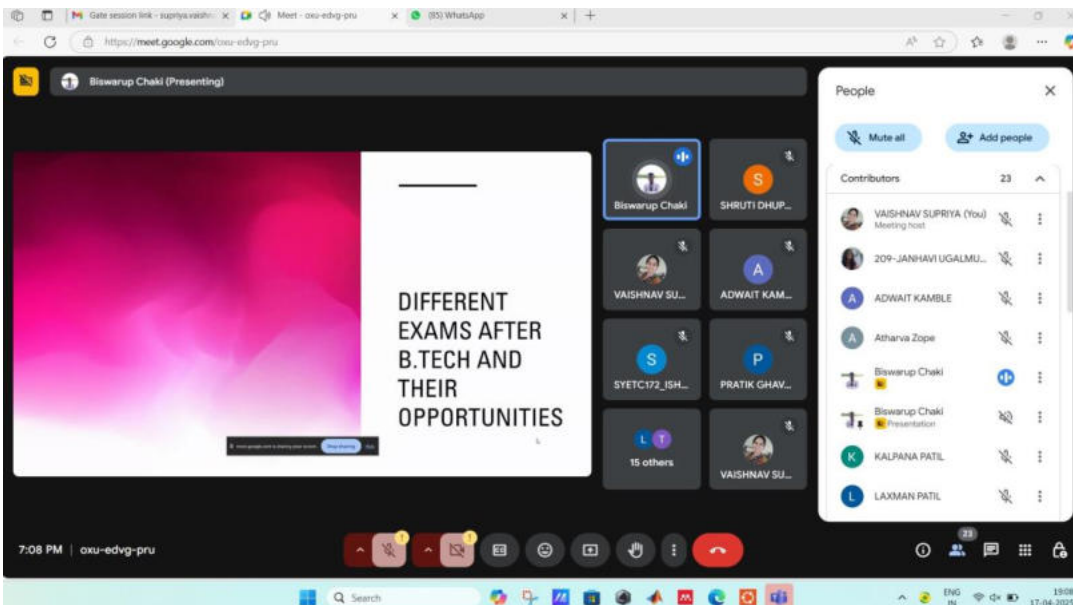
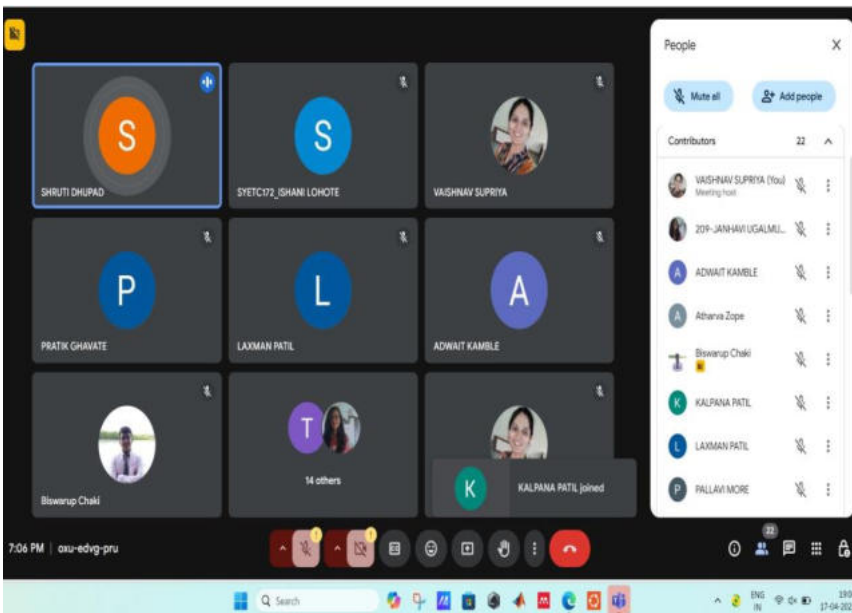
Sr. No.	Activity	Day/Date	Resource Person/ Organization	Audience	No. of students benefited
1	GATE Awareness & Preparation Guidance [Placement and Higher Studies Opportunities through GATE and Other Competitive Exam] to SY, TY students	Saturday, 31/8/24	Mr. Paresh Gugale, Imperial Institute	SY, TY	120+
2	CAT Awareness & Preparation Guidance	Saturday, 22/3/2025	Mr. Harsh Dake	SY, TY students	13
3	Opportunities Abroad & Research Fellowships	Thursday, 17/4/2025	Mr. Biswarup Chaki	SY, TY students	In process

Name of the event: GATE Awareness & Preparation Guidance





Name of the event: CAT Awareness & Preparation Guidance



Professional Development Cell

Add-on course	Objective of the Add On Course	Conducting agency	Duration/Hrs	No. of students participant	Faculty In charge
SY PDT	To enhance the logical reasoning skills of the students and improve the problem-solving abilities. 2. To improve the overall professional development of students.	Ethunus	60 hrs/div	227	Isha Vyas
TY PDT	To enhance the logical reasoning skills of the students and improve the problem-solving abilities. 2. To improve the overall professional development of students.	Campus credentials	36 hrs/div	230	S.V,Patil

Some of the glimpses of the events:



National Service Scheme Cell

Sr. No.	Name of Activity	Date of Activity	No of People Benefited
1	Cultural Competition at pccoe	22/8/2024	24
2	Anika 2.0 (Sex Education, Me Too, Navdurga)	7/10/2024,9/10/2024,11/10/2024	200
3	Village survey & Village survey group discussion	19/12/2024	800+60
4	Digital literacy skit	20/12/2024	200
5	Andhashraddha Nirmulan	21/12/2024	200
6	Jabdeswar Trekking	23/12/2024	60
7	Painting on Balvivah & Education	23/12/2024	200
8	Balvivah, Shivjayanti celebration & Digital literacy skits perform for anath Aashram Students	23/12/2024	500
9	Cultural event for village, campfire, skit on balvivah	24/12/2024	200+200+60
10	Durgavedh shivshanbhu vyakhyan	17/2/2025	15
11	Durgavedh guest session	22/2/2025	27
12	Fort Exhibition	25/2/2025	12
13	Blood donation camp	19/3/2025	25

Name of the event: Cultural Competition at pccoe



Name of the event: Fort Exhibition



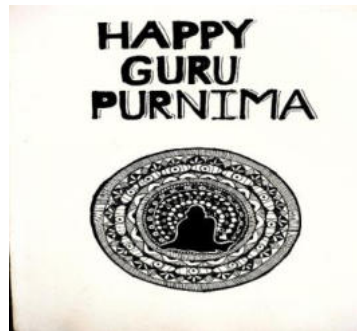
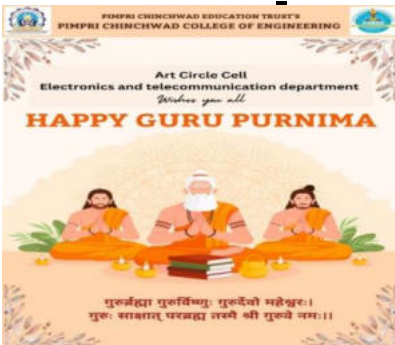
Name of the event: Blood donation camp



Art circle Cell

Event Name	Date	Organized or coordinated By	No of Student Participants
Guru Purnima	Monday, 22/07/2024	Mrs. Archana Bhamare and Student Coordinators	3
Teacher's Day	Thursday, 05/09/2024	Mrs. Archana Bhamare and Student Coordinators	9
Pookalam Rangoli Competition	Thursday, 19/09/2024	Mrs. Archana Bhamare and Student Coordinators	20
Garba Workshop 2024 (for E&TC Students)	Tuesday, 08/10/2024	Mrs. Archana Bhamare and Student Coordinators	25
Alumni meet 2024 (Stage Decoration and Cultural Activities Committee)	Saturday, 19/10/2024	Mrs. Archana Bhamare and Student Coordinators	10
Visit to Orphanage School	Thursday, 10/04/2025	Mrs. Archana Bhamare and Student Coordinators	06

Name of the Event: **Guru Purnima**



Name of the Event: **Teacher's Day Celebration**





Name of the Event: Pookalam Rangoli Competition

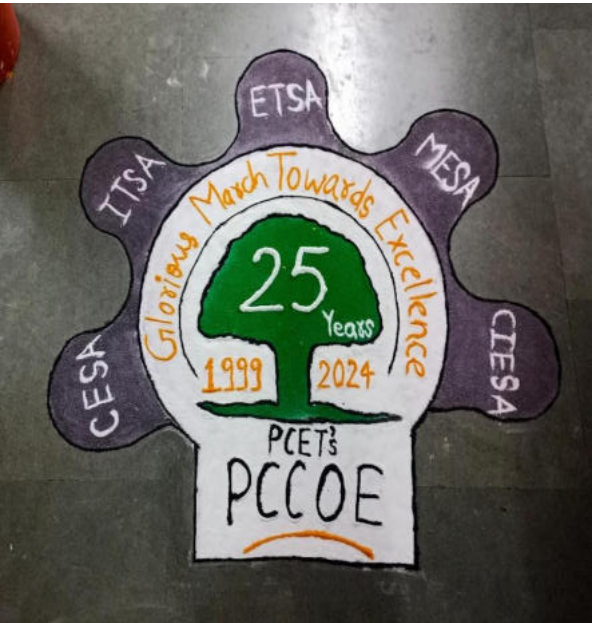


Name of the Event: Garba Workshop 2024 (for E&TC Students)





Name of the Event: PCCOE Alumni 2024 meet



Name of the Event: Visit to Orphanage School



Institute Social Responsibility (ISR) Cell

No	Name of the Technical training / awareness program/Other activity	Duration/ Day & date	Name of the beneficiary from Society	Number of beneficiary	No of students involved from Department
1	Cloth Donation	8 (21 st oct to 28 th oct 2024)	Labour working on construction sites	25	18
2	E Waste collection	5 (18 th Nov to 22 Nov 2024)	Community	All living being	15
3	Book donation drive	1(11/4/2025)	Orphanage school students	250	7
4	Computer literacy and Music teaching.	1(15/4/2025)	Underprevilage students	27	8

Name of the Activity: Cloth donation drive



Name of the Activity: waste collection drive



Name of the Activity : Book donation drive



Name of the Activity :Computer literacy / teaching Music to underprevilage childrens



Electronics and Telecommunication Student Association (ETSA) and IETE Student Forum

Sr. No.	Activity	Date	Type Social/ Techni cal/	No. of Stude nts Benefi ted	Organization and Name of Resource Person
1	Edge AI Workflow Design Training Program (One-week short-term training program on Edge AI workflow design)	22nd July to 27th July 2024	Technical	51	Mr. RohitPrajapati, Technical director, DigitoadTechnologi es, Bangalore
2	Session on “Advance TCMS System Communication for Transportation”	08/08/2024	Technical	75	Mr. Pravin Dhole (Design Head @Knorr Bremse Technology Centre India Pvt. Ltd) Mr. RajanDhingani (R & D team lead @Knorr Bremse Technology Centre India Pvt. Ltd.)
3	Induction of ETSA,ISF,IEEE SPS Student Chapter	31/08/2024	Social	152	Mr.YogirajDeokar Motivational Speaker,

4	One day workshop on “Demonstration of Edge AI Development Kit”	12/01/2024	Technical	42	Ms. Mrinalini Barik, Application Engineer DigiToad Technologies, Bangalore.
5	“Try Engineering” at JSPM's Blossom Public School	15/10/2024	Technical	70+ school Children	Rasika Wakte, Rishikesh Nipunge, Abhijit Kshirsagar, and Vishweshwar Jadhav IEEE SPS Office Bearers
6	ML model deployment on Raspberry Pi	22/10/2024	Technical	179	Dr. Manish Narkhede Asst. Prof.(PCCoE)
7	Big Data and Generative AI-Powered Innovation	16/2/2024	Technical	63	Mr. Abhishek Mittal (Senior Director Capgemini Ltd)
8	AI Model Deployment on Raspberry Pi in Hybrid Mode	22/02/2025	Technical	150+	Mr. Kunal Khandelwal, Application Engineer at MathWorks, DesignTech System Pvt. Ltd.
9	Shivkalarang	16/02/2025	Non Technical/Social	170+	Dr. G. N. Kulkarni Dr. K.S. Kinage Judge of Poster Competition
9	Nexus 2025- PCCoETechFest 2025(E&TC Dept)	7th and 8th March 2025	Technical	276	Dr. Varsha Degaonkar, Associate Professor, I2IT, Pune
10	Abhyantrix 2025 Student Led Conference	21-22 March 2025	Technical	240+	Guest Speaker: Dr. Anik Kumar Samantha, DS and ML Engineer, Danfoss India Innovation Centre, IEEE SPS Industry Representative, External Session Chair: Dr. Rishil Chtrala, I2IT Pune
11	Euphoria 2025 (Farewell Batch 24-25)	18 th April 2025	Non Technical/Social	250+	NA

Details of ETSA-ISF-IEEE SPS Student Chapter Activities 24_25:

1. Name of the Event :Edge AI Workflow Design Training Program

Date :22nd July to 27th July 2024

Venue :AIML Laboratory, ENTC Buildings, PCCOE

About the event :The one-week STTP workshop on "Edge AI Workflow Design" was organized by the Electronics and Telecommunication Department of PCCoE in collaboration with IEEE SPS Pune Student Chapter and Institute's Innovation Council from July 22-27, 2024. The program, led by Mr. RohitPrajapati, Technical Director of Digiroad Technologies, covered topics such as data acquisition, anomaly detection, embedded machine learning with TensorFlowLite, and deploying models on STM32 boards. Participants engaged in hands-on sessions, working with tools like STM32CubeIDE and NanoEdge AI Studio, and explored applications like audio classification, anomaly detection, and gesture recognition using CNNs. The event saw active participation from 30 students and 18 faculty members, concluding with discussions on Edge AI applications and future opportunities.

Student Coordinators :AnwayAlamwar, SnehaLoni

Glimpses of the event :



2. Name of the Event : Session on "Advance TCMS System Communication for Transportation"

Date : 8 August 2024

Venue : LRDC Hall, Mechanical Building, PCCOE

About the event :Under the guidance of Dr.VarshaHarpale, the IEEE SPS Student Chapter of PCCoE, in collaboration with ETSA and IETE, organized a session titled "Advanced TCMS System Communication for Transportation" on August 8, 2024. Experts from Knorr Bremse Technology Centre India Pvt. Ltd. discussed advanced transportation communication systems, covering topics like train architecture, MVB, CAN Communication, and Ethernet Train Backbone. Alumni and students shared

their experiences, fostering interaction among 95 participants, including 20 IEEE members. The event highlighted industry innovations and the importance of academia-industry collaboration, showcasing PCCoE's commitment to innovation and excellence.

Student Coordinators :Isha Deshpande, Risha Chopra

Glimpses of the event :



3. Name of the Event :Induction of ETSA,ISF,IEEE SPS Student Chapter

Date : 31 August 2024

Venue : LRDC Hall, Mechanical Building, PCCOE

About the event :The ETSA-IETE-IEEE SPS Induction Program 2024-25, organized by the IEEE SPS PCCOE Student Chapter under the guidance of Dr.VarshaHarpale, took place on 31st August 2024 at the LRDC Hall, PCCOE, Pune. The event aimed to welcome new members to the ETSA, IETE, and IEEE SPS student chapters, with key speakers such as Mr. YogirajDeokar, an expert in Entrepreneurship Development, and Mr. NilkanthChopade, Deputy Director of PCCOE, offering insights on leadership, time management, and personal growth. The program included a motivational speech, a video showcasing the societies' activities, and a talk by Mr. Deokar on vision, strategy, and the Bell Curve concept.

A highlight was the felicitation of Team Automatons for their achievements in robotics, followed by the presentation of badges to new office bearers and an oath-taking ceremony. With 65 attendees, the event emphasized the importance of active participation and personal development, fostering connections among students, faculty, and industry experts. The success of the program was attributed to the support of the IEEE Pune Section and the organizing team's dedication.

Glimpses of the event :





4. Name of the event :One day workshop on “Demonstration of Edge AI Development Kit”

Date : 12 January 2024

Venue :AIML Lab, Department of E&TC, PCCOE

About the event :The IEEE SPS Student Chapter at PCCoE, Pune, hosted a workshop titled "Demonstration of Edge AI Development Kit" on January 12, 2024, in collaboration with DigiToad Technologies, Bengaluru. The offline event, part of an MoU initiative for AI skills development, training, and placement assistance, was attended by 42 students and 7 faculty members from the E&TC department. Ms. Mrinalini Barik from DigiToad Technologies led the session, which focused on equipping participants with skills for Edge AI-based projects, research, and product development. This six-hour session highlighted innovation and design thinking, contributing significantly to academic and professional growth.

Glimpses of the event :



5. Name of the event :“Try Engineering” at JSPM's Blossom Public School

Date : 15 October 2024

Venue : JSPM’s Blossom Public School, Pune

About the event :The IEEE SPS Student Chapter at PCCOE, under the guidance of Dr. Varsha Harpale, organized a workshop titled "*Hands-on Engineering: The Tech Around Us – Science Behind Everyday Devices*" on 16th October 2024 at JSPM's Blossom Public School, Tathawade. Targeting 8th-grade students, the workshop aimed to spark interest in STEM fields by exploring engineering concepts in

daily life. Over 40 students participated in interactive sessions led by college students on topics such as fitness tracker mechanisms, voice assistant technology, and robotic decision-making. The event successfully inspired enthusiasm for engineering and innovation, fostering curiosity and highlighting the relevance of science in everyday life.

Student Coordinators :RasikaWakte, RishikeshNipunge, AbhijeetKshirsagar, VishveshwarJadhav.

Glimpses of the event :



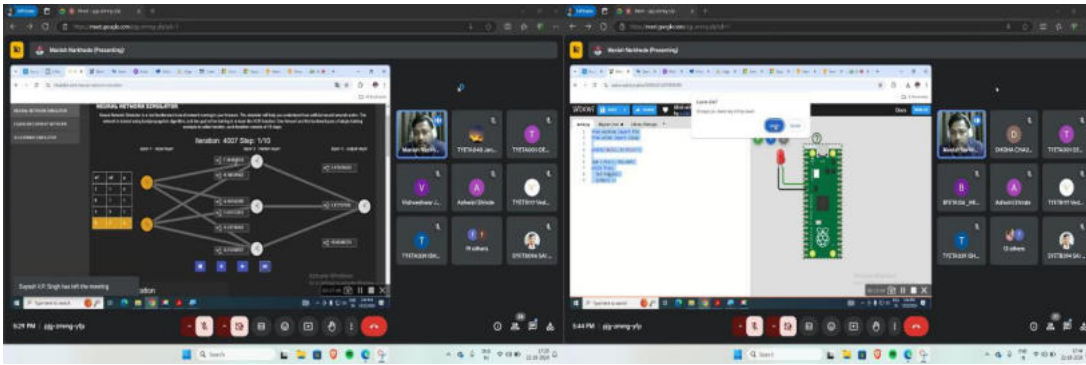
6. Name of the event :ML model deployment on Raspberry Pi

Date : 22 October 2024 (Online mode)

About the event : The IEEE SPS PCCOE Student Chapter, under the guidance of Dr.VarshaHarpale, organized an online session on "Machine Learning Model Deployment on Raspberry Pi" on 22nd October 2024. Led by Dr. Manish Narkhede, the session covered deploying ML models using platforms like Teachable Machine, Ultralytics, and Edge Impulse. Attendees explored Raspberry Pi's potential in IoT, real-time object detection with YOLO, and dataset management with Roboflow, gaining practical insights into computer vision and edge ML. With active participation from 35 attendees, the event successfully promoted innovation and practical knowledge in ML and IoT, highlighting the chapter's commitment to fostering technological advancement.

Student Coordinators :GeetashreeAbhang, ShrutiBadgujar

Glimpses of the event :



7. Name of the event : Big Data and Generative AI-Powered Innovation

Date : 16 February 2024

Venue : LRDC Hall, Mechanical Building, PCCOE

About the event : The event "Big Data & Gen AI-Powered Innovation: A New Era of Possibilities," organized by the IEEE Signal Processing Society (SPS) PCCoE Student Chapter and ETSA-ISF under the guidance of Dr. Varsha Harpale, took place on 18th October 2024 at PCCOE, Pune. Featuring Abhishek Mittal, Senior Director at Capgemini, the session explored Generative AI's transformative applications across industries, including healthcare, finance, and entertainment, while addressing ethical considerations and career opportunities. With over 90 participants, the event included an engaging Q&A session, real-world examples of AI-driven innovation, and recognition of IEEE Day Poster Design Competition winners, Harish Patil and Shreyash Desai. The session successfully inspired attendees to delve deeper into AI and Big Data, fostering innovation and professional growth in the field.

Student Coordinators : Janhnavi Deshpande, Abhijit Kshirsagar

Glimpses of the event :





8. Name of the event: AI Model Deployment on Raspberry Pi in Hybrid Mode

Date: 22/02/2025

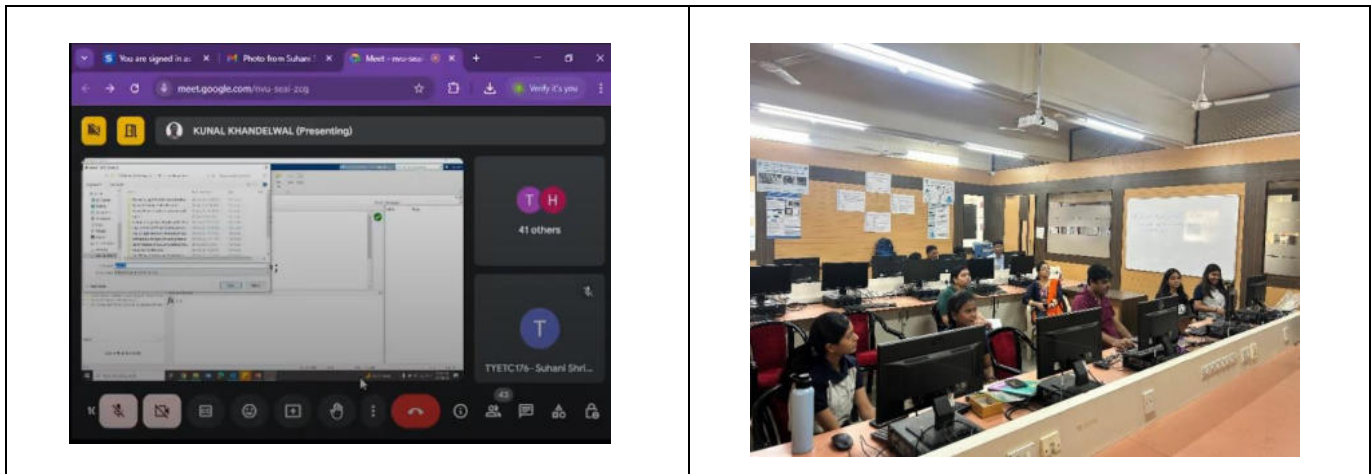
Venue: AIML Lab E&TC Dept.

Resource Person: Mr. Kunal Khandelwal, Application Engineer at MathWorks, DesignTech System Pvt. Ltd.

About the event: Mr. Khandelwal provided valuable insights into career opportunities in AI, embedded systems, and deep learning, making the session not only informative but also highly beneficial for students aspiring to work in these fields. He has demonstrated Model-Based Design (MBD) and explained how AI is integrated into it. He elaborated on the significance of Simulink and Raspberry Pi in the real-time implementation of AI models.

No. of Beneficiaries: 150+

Student Co-ordinators: Rishikesh Nipunge, Suhani Shrikhande



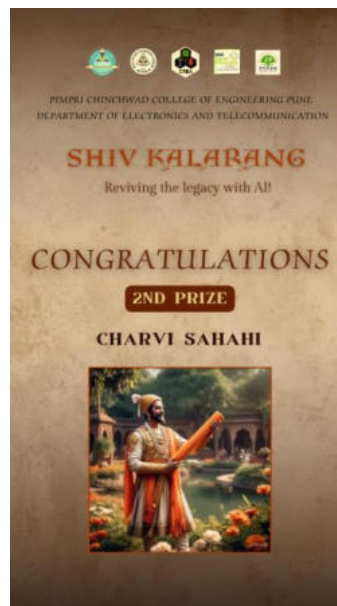
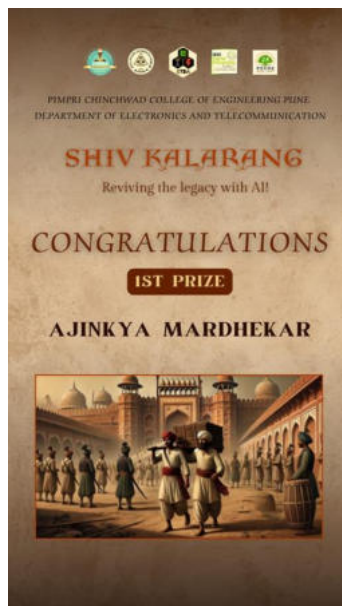


9. Name of the event: Shivkalarang

Date :20/02/2025

Judges of Poster Competition: Dr. G. N. Kulkarni, Dr. K.S. Kinage

About the event: Dept. of E&Tc has organised “Shivkalarang” AI based poster on Life stories of Chatrapati Shivaji Maharaj making competition. First and second prize is grabbed by Mr. Ajinkay and Charvi respectively



Name of the event: Nexus 2025- PCCoETechFest 2025(E&TC Dept)

Date :7th and 8th March 2025

Guest Speaker:Dr.VarshaDegaonkar,Associate Professor, I2IT, Pune

About Event: The inauguration ceremony took place on 7th March 2025, with the presence of Dr. P. A. Deshmukh, Dean, Student Development Welfare (SDW), Dr. S. U. Bhandari, (In-charge Head of Department), Dean, Faculty Development Welfare (FDW).

Nexus '25 unfolded with four major events, challenging participants to think beyond conventional boundaries:

- **RotorX**– A two-day drone workshop conducted in collaboration with Team Maverick India, providing students with hands-on experience in drone technology and aerodynamics.

- **12- Hour's Hardware Hackathon** – Organized in partnership with Yorbot, this competition encouraged participants to develop innovative hardware solutions to real-world problems.
- **Solo Not Solo** – A team-based challenge where participants registered individually and were later grouped into teams. The event consisted of three rounds designed to test problem-solving, communication, and teamwork.
- **Raw and Unfiltered** – An electrifying talent showcase where students displayed their hidden talents, including singing, dancing, magic, comedy, poetry, beatboxing and more.



10. Name of the event: Abhyantrix 2025 (Student Led Conference)

Date :21-22March 2025

Chief Guest:Dr.Anik Kumar Samantha, DS and ML Engineer,
Danfoss India Innovation Centre, IEEE SPS Industry Representative
External Session Chair: Dr.RishilChtrala, I2IT Pune

Abhyantrix'25, the annual technical symposium held on March 21st and 22nd, 2025, was a grand celebration of innovation, research, and technological advancements, bringing together students, academicians, and industry professionals. The event featured multiple technical tracks covering Artificial Intelligence, Smart Systems, Assistive Technology, Healthcare Innovations, and more, providing platform for knowledge exchange and collaboration. Organized by a dedicated coordinating team with faculty guidance and industry support, the symposium aimed to encourage research and development, facilitate networking, expose participants to emerging technologies, and bridge academia with industry. The inauguration ceremony, graced by Chief Guest Mr. Anik Kumar Samantha Sir, set the stage with a keynote on interdisciplinary research and technological progress. A cross two days, seven technical tracks ran, featuring expert speakers, industry insights, and interactive discussions. Notable tracks included Wearable Technology and Health Monitoring Systems, Cognitive Computing and AI, Data Science and Machine Learning, IoT and Smart Networks, and Robotics and Automation. The event recognized outstanding research through Best Paper Awards and Special Mentions, motivating students to pursue further innovation. Abhyantrix'25 left significant impact by fostering academic excellence, enhancing skills, and strengthening industry-academia collaboration.

The event successfully balanced academic rigor, technical expertise, and professional exposure, ensuring participants left with valuable insights and connections. With an eye on the future, the organizing team looks forward to Abhyantrix'26, aiming for expanded themes, broader participation, and more impactful sessions, continuing its legacy as a premier platform for engineering and technology research.



11. Name of the event: Euphoria 2025(Farewell Batch 24-25)

Date :18 th April 2025

Chief Guest:Dr. K.S. Kinage, Dr. M.T. Kolte

In Euphoria 2025, Head of the Department(E&TC), Dr.KishorKinage addressed all the B. Tech Final students to be connected with alma matter and gave best wishes to their future. Mrs. Ashwini Shinde ETSA-ISF-IEEE faculty coordinator elaborated journey of ETSA 22-23 in formation of new IEEE SPS student chapter under the leadership of Dr. M.T. kolte and Dr.varshaHarpale. IEEE SPS chapter has

accomplished great milestones and that it has shaped students in many different ways. Mr. Tejas Bhone and Mr. Tushar Sadanad Alande grabbed the Best Outgoing student Award of 24_25 batch of E&TC Department.

