

Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering

Applied Sciences and Humanities

News wire

2025-26



Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering



Message from the Director

Greetings from Pimpri Chinchwad College of Engineering (PCCoE), Pune. As we celebrate over 25 years of excellence as a leading autonomous institute, I am delighted to welcome you to the latest edition of our Newswire—a reflection of our collective achievements and commitment to value-added quality education.

At PCCoE, we believe education is a continuous journey. Our robust academic framework and conducive research environment empower our faculty and students to excel. By fostering innovation and addressing contemporary engineering challenges, we ensure our graduates are not only industry-ready but also ethically grounded global citizens committed to social responsibility.

Driven by a visionary management team and state-of-the-art infrastructure, "Team PCCoE" continues to reach new milestones in research, academic rankings, and industry collaborations. I encourage all our students to look beyond academics to embrace leadership and entrepreneurship as we work together to make the world a better place.

Best Regards,
Dr. Govind N. Kulkarni
Director, PCCoE



Vision and Mission

Vision: To serve the Society, Industry and all stake holders through Value Added Quality Education

Mission: To serve the need of the society at large by establishing state-of-the-art Engineering, Management and Research institute and impart Attitude, Knowledge and Skills with Quality Education to develop individuals and teams with ability to think and analyze right values and self-reliance.

From the Head of Department Applied Sciences and Humanities

Greetings to all readers,

As the foundational department of PCCOE, the Department of Applied Sciences and Humanities serves as the gateway to engineering excellence. Our goal is to ensure that every student transitions from a learner to a critical thinker, equipped with a robust understanding of scientific principles and professional ethics.

This past year has been a testament to our students' adaptability and our faculty's commitment to academic rigor. Through a blend of fundamental sciences and holistic induction programs, we continue to nurture well-rounded engineers ready to tackle global challenges.

I congratulate the editorial team for capturing the vibrant spirit of our department in this newsletter. To our students: stay curious, stay disciplined, and remember that a strong foundation is the key to every great innovation.

Best wishes,
Dr. Leena Sharma Head of Department, Applied Sciences and Humanities
PCCOE



Newsletter Team



Dr. Jayashree Lohar



Dr. Brijesh Deshmukh



Aditi Bhole



Indrayani Sontakke



Atharva Gangji



Chaitanya Patil



Yuvraj Gaikwad

Academic Report

Academic Coordinators		
1	Dr Sanjivani Sonar	Professor
2	Dr Priya Joshi	Associate Professor
3	Mrs Anjali Sakurkar	Assistant Professor
4	Dr. Ashiwini Vaze	Assistant Professor
5	Dr. Sandip Jagadale	Assistant Professor
6	Dr. Sujata Bhamre	Assistant Professor

Courses offered by BoS of AS&H department to S.Y.B.Tech

S.No.	New Course Codes	Course Type	Offered to Branch	Name of Course	No. Of students registered
1	BSH23OE01	OE I	Mechanical	Applied Mathematics	229
2	BSH23OE02	OE I	E&TC	Computational Techniques	232
3	BSH23OE03	OE I	Civil	Applied Mathematics	77
4	BSH23OE04	OE III	Comp, IT & AIML	Statistical Data Analysis using R	594
5	BSH23OE05	OE III	Comp, IT & AIML	Advance Material and Characterization	4
6	BSH23OE06	OE II	ALL	Neural Network and fuzzy logic Control	235
7	BSH23EM01	EEM-I	ALL	Business studies for Engineers	1359
8	BSH23VE01	VEC-I	ALL	Universal Human value	1359



Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering



Academic Audit

Top 10 Toppers SEM I 25-26

Sr.No	Div	PRN	Name of Student	Total Credit Points	SGPA
1	K	125B1B077	TANISHQA ATUL KHARE	198	9.9
2	J	125B1B043	GHARMALKAR ADITI PRAKASH	198	9.9
3	P	125B1F229	KHARCHE MRUNMAYEE AJAY	197	9.85
4	J	125B1B284	RAEE AJAY DERE	195	9.75
5	I	125B1A025	RIYA BALASO GAIKWAD	194	9.7
6	J	125B1B006	ALVA DYUTHI RAVIPRASADA	194	9.7
7	O	125B1F065	SIYA SANDEEP DUBEY	194	9.7
8	J	125B1B010	ZIYA MALLIK	193	9.65
9	L	125B1B153	YEOLE LAKSHYA YOGESH	192	9.6
10	P	125B1F206	PATIL NIRJAR RUPESH	192	9.6



Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering



Academic Audit

Result Analysis of Sem I 2025-26 (After SA):

Div	PRN
Total no. of First class with distinction	455
Total no. of First class	347
Total no. of Higher second class	83
Total no. of Second class	49
Total no. of Pass	1
Total no. of Fail A.T.K.T.	125
Total no. Fail	27
Total no. of Detained	4
Total no. of All Clear	935
Percentage of all clear result	86.02
With ATKT	1060
Total Strength	1087
Percentage result(with ATKT)	97.52

Induction Program

The First-Year Engineering Department of Pimpri Chinchwad Education Trust-run Pimpri Chinchwad College of Engineering successfully conducted its Student Induction Programme (SIP) for Academic Year 2025–26 in accordance with AICTE guidelines. The initiative aimed to help newly admitted students smoothly transition into professional education by familiarizing them with academics, institutional culture, ethics, wellness, and social responsibility.

Formal Induction and Parent Interaction

Date: 11 September 2025

Venue: G. D. Madgulkar Natyagriha, Nigdi, Pune

Online Session: 27 September 2025

Approximately 2000 students and parents attended the offline programme. An additional online session was arranged for late admissions. Institutional leadership introduced academic structure, mentoring systems, examination processes, and student support services. Parent feedback indicated high satisfaction with the clarity and organization of the programme.



Senior Student Mentoring Talks

Dates: 20 September 2025 & 27 September 2025

Senior students shared academic strategies and campus adjustment guidance, supporting first-year transition.

Guest Lecture – Key Skills to Success

Dates: 27 September 2025 & 1 October 2025

Around 950 students attended sessions on time management, goal setting, perseverance, networking, and professional readiness.



Sahaja Yoga Meditation Sessions

Dates: 6–8 October 2025

Students practiced guided meditation techniques to improve concentration, emotional stability, and productivity.

English Language Proficiency Assessment

Over 500 students underwent written and oral evaluation. Based on performance and preference, students were allotted German, Japanese, Business Storytelling, or English improvement courses.



Human Values and Mental Wellness Sessions

Date - 30 September 2025

- Universal Human Values session focused on ethics, relationships, and responsibility
- Mental health session addressed emotional balance, resilience, and stress management



Orientation on Academic Policies

Dates:

- Group B – 6 October 2025
- Group A – 7 October 2025

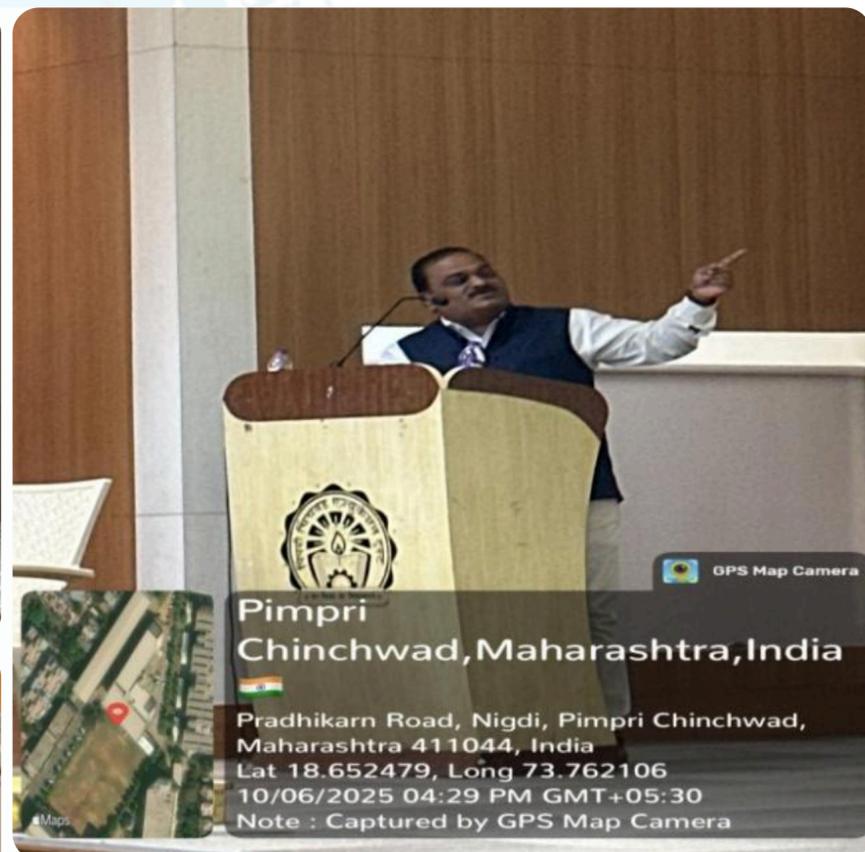
Senior academic authorities briefed students on curriculum structure, course registration, grading system, attendance rules, examination procedures, innovation initiatives, incubation support, international exchange programmes, and global internships.

Induction Program

Dates:

- **Group A** – 7 October 2025
- **Group B** – 8 October 2025

Students were introduced to welfare schemes, cultural and technical clubs, sports facilities, social responsibility cells, and anti-ragging initiatives. Various collegiate technical teams presented their projects and achievements, encouraging participation in co-curricular activities.



Cultural Closing Event – Diwali Celebration

Date: 17 October 2025

The programme concluded with a cultural gathering fostering belongingness and community bonding.

The Diwali celebrations at Pimpri Chinchwad College of Engineering (PCCOE), organized by the Applied Sciences and Humanities (AS&H) Department, brought a vibrant energy to the campus, marking a blend of tradition and the spirit of an autonomous institute. The department was transformed with intricate marigold decorations and colorful rangolis, reflecting the creative talents of the first-year students. The event featured a traditional Diwali Pahat atmosphere, where students and faculty came together in ethnic attire to celebrate the festival of lights.

The sense of coordination was most evident in the creation of the Rangoli designs that adorned the AS&H department's corridors. Working in synchronized teams, students meticulously planned the patterns, ensuring every curve and color was perfectly placed.



National Science Day

The Department of AS&H at Pimpri Chinchwad College of Engineering (PCCoE), Pune, celebrated National Science Day on 27/02/2025 under the theme “Empowering Indian Youth for Global Leadership in Science & Innovation for Viksit Bharat.”

The two-hour offline Level-3 Exhibition witnessed active participation from 35 student presenters and 100+ visitors, along with four faculty members.

Students showcased the contributions of notable Indian scientists and demonstrated physics principles through demo kits.

Faculty members also introduced their research areas, encouraging students to engage in projects and research activities. The event successfully created awareness, promoted scientific thinking, and celebrated the spirit of National Science Day.

Vision: To foster a culture of scientific inquiry and analytical thinking among budding engineers, empowering them to leverage fundamental sciences as a foundation for sustainable technological innovation and global societal impact.

Mission: The mission of the National Science Day celebration is to create a dynamic environment where students move beyond theoretical learning to cultivate a deep-seated curiosity for the natural world.



INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD Initiative)

DEPARTMENT OF AS&H, PIMPRI CHINCHWAD COLLEGE OF ENGINEERING, PUNE IN ASSOCIATION WITH IIC PCCOE IS CELEBRATING

NATIONAL SCIENCE DAY 2025

Theme : Empowering Indian Youth for Global Leadership in Science and Innovation for Viksit Bharat.

27 February 2025

10.00 am to 05.00 PM

Venue: Building No.6, 4th Floor, Corridor

Highlights

1. DEMONSTRATION OF SCIENCE CONCEPTS THROUGH THE EDUCATIONAL KITS BY STUDENTS OF FIRST YEAR B.TECH.
2. POSTERS ON CONTRIBUTION OF NOTABLE INDIAN SCIENTISTS
3. AWARENESS REGARDING RESEARCH AREAS OF FACULTY MEMBERS OF AS&H




Date - 15 October 2025

Interactive UHV Cell orientation and teamwork activity



Students conducting UHV activity



Winner of UHV Cell teamwork activity

Artificial Intelligence Awareness Activities

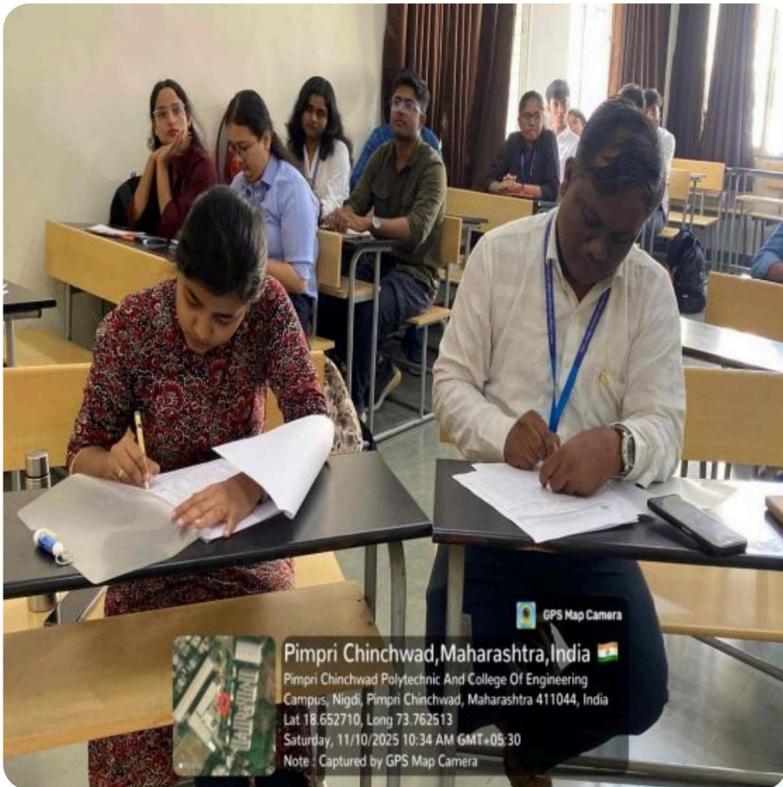
Debate Competition – “Is AI a Friend or a Foe?”

Date: 11 October 2025

The Department of Applied Sciences and Humanities (AS&H) at Pimpri Chinchwad College of Engineering recently organized a high-energy debate competition centered on one of the most defining tensions of the modern era: "AI: Friend or Foe?"

Around 20 teams presented analytical arguments enhancing communication and critical thinking skills.





Glimpses of Debate Competition



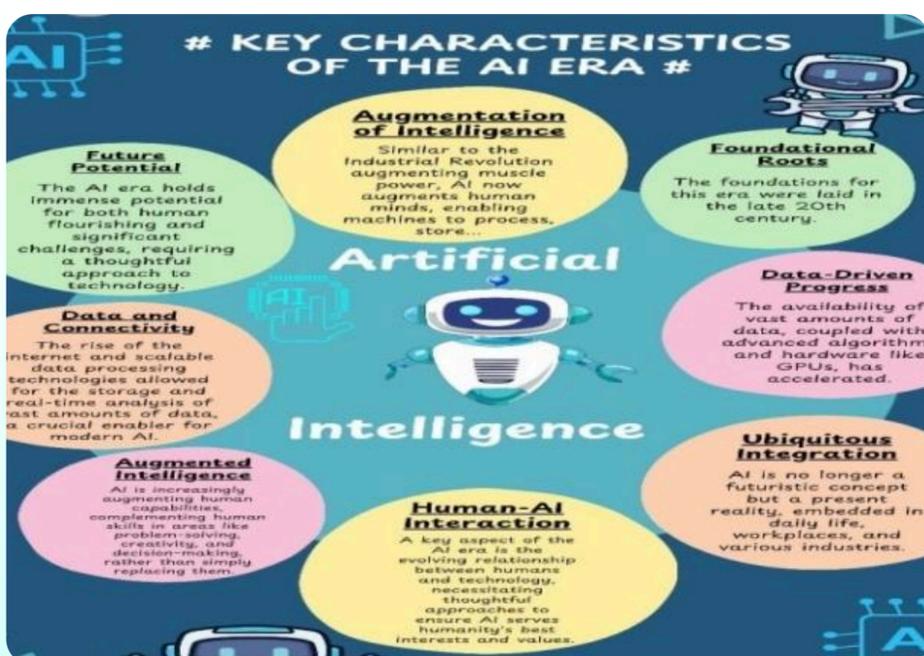
Winner of Debate Competition

Poster Competition – Latest Trends in AI

Duration: 1–10 October 2025

83 submissions were received and evaluated based on innovation and relevance.

The poster competition, centered on the provocative theme of "AI: Friend or Foe?", provided a compelling platform for students to visually dissect the dual nature of artificial intelligence. Participants moved beyond basic sketches, using a mix of digital art and hand-painted illustrations to explore the delicate balance between technological convenience and ethical complexity. The posters vividly depicted the contrast between AI's potential in healthcare and automation against the concerns of data privacy and the loss of human touch.





Research and Development

Excellence in Research

Across the listed publications, the faculty collectively produced 21 research papers (2024–2025).

Research Domains

- **Materials Science & Nanotechnology:** thin films, heterostructures, nanosheets, nanoferrites, semiconductor materials
- **Energy & Sustainability:** Li-ion batteries, supercapacitors, solar cells, hydrogen generation, photoelectrochemical water splitting
- **Optoelectronics & Photodetectors:** photodetection performance, semiconductor junction devices
- **Electronics & Applied Physics:** sputtered films, device characterization, sensor materials
- **Mathematics & Finance:** fractional difference equations, efficient market hypothesis
- **Climate & Environmental Modelling:** climate interaction modelling approaches
- **Mechanical & Automotive Systems:** HVAC reliability in vehicles
- **Biomedical & Health Studies:** social media health impact, cancer-related calcium profiling

Education, Psychology & Humanities: NEP policy analysis, procrastination behaviour, literary criticism

Major Contributors

- Dr Leena Sharma, Dr Mohit Prasad, Ms. Rebecca George, Dr Sandeep H. Patil, Dr Minakshi Panchal, Dr Sandip K. Jagadale, Dr Sanjiwani S. Sonar, Dr Priya P. Joshi, Dr Amol P. Kharche, Dr Falguni S. Bhavsar, Dr Nishi Gupta, Dr Sonali Kale, Dr Rajesh Govind Talekar, Dr Arif S. Bagwan
- These contributors appear repeatedly across multiple publications, particularly in materials science, optoelectronics, and renewable-energy-related research.



Research and Development

Patents

Patents and Designs Filed/Granted (2024–25)

Pimpri Chinchwad College of Engineering faculty and applicants secured significant intellectual property achievements during the academic year 2024–25.

- Automatic Door Stopper – Utility Patent (National)
- Applicants/Inventors: PCCoE team including Priya Joshi and collaborators
- Application No.: 202321032289 | Filed: 7 May 2023 | Published: 15 Sept 2023 | Granted: 29 Nov 2024
- Sun Shade Solar Umbrella – Design Patent (National)
- Applicant: Leena Sharma et al.
- Application No.: 411799-001 | Filed: 28 Mar 2024 | Published: 7 June 2024 | Status: Published (Pending Grant)

Photoelectric Colorimetric Integrated Device for Chemical Analysis in Body Fluids – Design Patent (National)

Applicant: Amol Purushottam Kharche et al.

Application No.: 438243-001 | Filed: 23 Nov 2024 | Status: Under Process

These filings reflect active innovation in assistive devices, renewable energy solutions, and biomedical instrumentation.

Copyright Registrations

Copyright Registrations (2024–25)

The Department of Applied Sciences & Humanities at Pimpri Chinchwad College of Engineering recorded multiple software and application copyrights during the academic year 2024–25:

- TRASHEXCHANGE – Filed 3 May 2024 | Registered 24 July 2024
- Applicants: Dr Priya Joshi and Kartik Kulloli et al.
- Plant Watering Notifier – Filed 10 Dec 2024 | Registration awaited
- Applicants: Dr Priya Joshi and Om Bharambe et al.
- Not Encrypted Key Storage Authentication – Filed 14 Feb 2024 | Registered 28 Mar 2024
- Applicants: Shriram Bhogale, Dr Priya Joshi, Dr Sanjivani Sonar, Vedant Bodkhe, Atharva Baviskar, and Prasad Atram
- Water Insight – Filed 8 May 2024 | Registered 21 Nov 2024
- Applicants: Dr Falguni Bhavsar and team

These registrations highlight innovation in environmental monitoring, automation, and cybersecurity applications.

Research and Development

Research ESTIC - Viksit Bharat 2047 – Pioneering Sustainable Innovation, Technological Advancement and Empowerment Development

Dr. Mohit Prasad was selected as a Young S&T Leader to participate in the Emerging Science, Technology, and Innovation Conclave (ESTIC)-2025 organized by the Department of Science and Technology, Government of India, held from 3rd to 5th November 2025 at Bharat Mandapam, Pragati Maidan, New Delhi, aligned with Viksit Bharat 2047 and attended by over 3000 delegates.



A key highlight was the announcement of a ₹1 lakh crore Research, Development, and Innovation (RDI) Fund to support high-impact research in quantum technologies, artificial intelligence, biotechnology, semiconductors, and space sciences.

The conclave featured strategic technical tracks and emphasized deep-tech innovation through the Startup Expo and PitchX platform while showcasing QpiAI-Indus under the National Quantum Mission.

"Knowledge Brings Freedom"

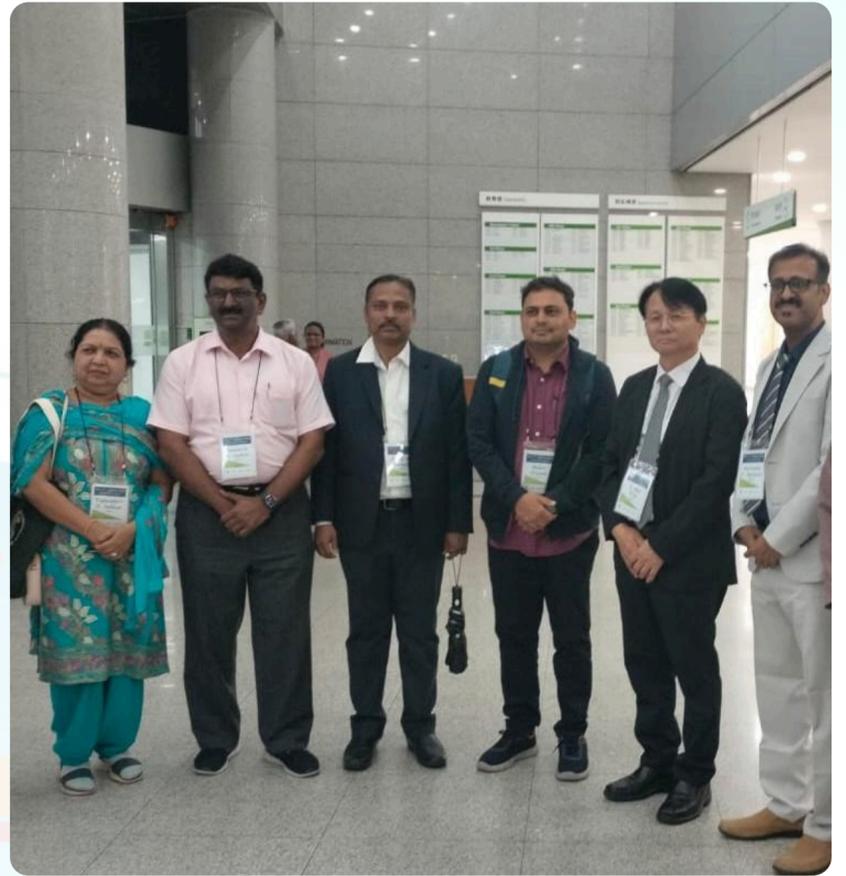


Advanced Material Synthesis

The 5th International Conference on Advanced Materials Synthesis, Characterization, and Applications (AMSCA-2025) was held from 25th to 30th June 2025 at Sungkyunkwan University, South Korea, where Dr. Mohit Prasad participated and engaged in discussions on advanced materials and next-generation computing.

He presented "Biomolecular and Photoelectrochemical Logic Devices," focusing on hybrid optical logic systems integrating biomolecular and photoelectrochemical architectures for low-power and reversible computing.

The work demonstrated ultra-low-power optical logic devices using biomolecular microresonator systems integrated with high-Q microresonators. Overall, the research highlighted the potential of biomolecular-photoelectrochemical integration for scalable and energy-efficient optical computing technologies.



Report writing guest lecture

Dr. Babasaheb Raghunath Sankapal, Professor, Department of Physics, Visvesvaraya National Institute of Technology, Nagpur-440 010 (M.S.) India, delivered an informative and thought provoking session as a Guest Speaker on "Research Paper Writing" dated 27th June, 2024 at Department of Applied Sciences and Humanities, Pimpri Chinchwad College of Engineering, Nigdi Pune.

It was really a splendid session which exposed faculty to write research papers. All the faculty members appreciated the insights given on the research paper writing.





International Visits

International Visits (2024–25)

- **Nishi Gupta**
 - *Presentation:* Demand of Charging Stations for EVs: An Optimized Solution through Machine Learning Algorithms
 - *Event:* ESTCON International Conference
 - *Date:* 10 September 2024
 - *Location:* Malaysia

- **Sonali Kiran Kale** – Department of Applied Sciences & Humanities
 - *Presentation:* Development of Smart Algae Bio Panel
 - *Event:* AMSCA'24, Queensland University of Technology
 - *Dates:* 25–27 September 2024
 - *Location:* Brisbane, Australia

- **Mohit Prasad**
 - *Presentation:* Biomolecular and Photoelectrochemical Logic Devices
 - *Event:* 5th AMSCA-2025, Sungkyunkwan University
 - *Dates:* 25–30 June 2025
 - *Location:* Suwon, South Korea

Workshops

Workshops / FDPs Organized by AS&H Faculty

- FDP – Automation Using Excel
 - Resource Person: Ganesh Tarte
 - Coordinators: Mohit Prasad, Mahadev Kadam

- Faculty Orientation Program – AY 2024–25 Sem-I Academic Planning, Execution & Exam Re-registration Policies
 - Resource Person: Leena Sharma
 - Coordinators: Mohit Prasad, Mahadev Kadam

- FDP – Hands-on Training for Water Supply Engineering Lab Experiments
 - Resource Person: Sanjivani Sonar (3 sessions)
 - Coordinator: Prof. S. T. Mali

Lecture Series – Research Article Publication & Project Writing
Resource Persons: Mohit Prasad, Mahadev Kadam, Nishi Gupta
Coordinators: Mohit Prasad, Mahadev Kadam

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Student Welfare and Development

Sports

Dates: 6–10 October 2025

Participants: 1106 students

Indoor and outdoor competitions including cricket, football, volleyball, badminton, chess, carrom, athletics, table tennis, and tug-of-war promoted teamwork, discipline, leadership, and stress management.

Vision: To create a nurturing and inclusive ecosystem that empowers students to achieve holistic excellence by balancing rigorous academic pursuits with personal well-being, ethical values, and social responsibility.

Mission: The mission of the Student Welfare Department is to facilitate a seamless integration into campus life by providing comprehensive support services that prioritize the physical, mental, and emotional health of every student.



Institute Social Responsibility

Annadacha Pharal (Diwali Donation Drive)

Students distributed festive food to specially-abled children at a rehabilitation centre in Dehu Gaon, promoting compassion and social awareness.



15 October 2025 at 2:59 pm



2025 at 3:04 pm

Career Guidance Programme

Date: 18 November 2025

Volunteers guided 11th and 12th standard students about exam preparation, time management, stress control, and career opportunities across multiple academic streams.



Journal Writing Support for Blind Girls

Date: 9 Dec 2025

The ISR Cell assisted students of NFBM Jagriti School for Blind Girls in completing academic journals at Alandi. The activity promoted inclusive education, empathy, and teamwork while helping visually impaired learners progress academically.



Scrap Paper Donation Drive

Students from all departments collected ~30 kg of recyclable paper from campus and handed it to Vatsalya Shikshan Sanstha at Dehu Gaon. The material will be used by persons with intellectual disabilities for shredding work, generating small income to support daily and medical needs.



Student Development and Welfare

Life Skills MOU

The Department of Applied Sciences and Humanities at Pimpri Chinchwad College of Engineering (PCCoE) has signed a MoU with the Indian Association of Life Skills Education (IALSE), Chennai, to strengthen Life Skills Education among students and faculty.

Aim

To promote and institutionalize Life Skills Education at PCCoE through structured training, research and collaborative initiatives.

Objectives

- Provide internships, training and certification programs in Life Skills Education.
- Conduct Faculty Development Programs and Train-the-Trainer sessions.
- Establish a Center for Life Skills Education at PCCoE.
- Integrate life skills into academic curriculum and professional development.
- Encourage joint research, conferences, seminars and publications.

Under this three-year collaboration, PCCoE will provide infrastructure and academic support, while IALSE will offer expert trainers, curriculum guidance, certification and national networking opportunities. A joint coordinating committee will oversee implementation and regional outreach activities.

This MoU reflects PCCoE's commitment to holistic education by nurturing technically competent, socially responsible and emotionally intelligent graduates equipped with essential life skills for the future.



Industry MOU

Pimpri Chinchwad College of Engineering (PCCoE), an autonomous institute affiliated to Savitribai Phule Pune University (SPPU), has reinforced its commitment to fostering an industry-integrated academic culture through its diverse collaborations under the Industry–Institute Interaction (III) initiatives.

As part of these initiatives, Department of Applied Sciences and Humanities (AS & H), PCCoE collaborated with Arklite Specility Lamps Pvt. Ltd; Pune and signed Memorandum of Understanding in July 2024. Arklite, India's only manufacturer of UV lamps, specializes in UV-based solutions for water and air disinfection, UV curing, and odor control systems.

Under this collaboration, Arklite has supported skill-based laboratory sessions in Engineering Physics by installing a UV-based water purification setup at PCCoE. Students receive hands-on training in UV technology and sensor-based applications, with expert sessions conducted by industry professionals.

The initiative has also led to multidisciplinary final-year projects involving Computer Regional and Electronics & Telecommunication Engineering students. The projects were showcased at Kshitiz 2025 and presented at the International Conference on Advanced Technologies in Engineering and Science (ICATES 2025), with the research published in IET Conference Proceedings (December 2025).

Additionally, internship opportunities have been provided to students, including two-month industrial training at Litex Electricals, a sister concern of Arklite, offering valuable exposure to manufacturing and applied engineering practices.



Industry MOU

In continuation with this, Two days faculty development program (FDP) was conducted as “Industry–Institution Connect” on 10 January and 13 January 2026 in offline mode. FDP aimed to strengthen collaboration between academia and industry by bridging the gap between theoretical knowledge and real-world industrial practices. The sessions by esteemed speakers were interactive. The FDP provided a structured platform for faculty members to understand evolving industry skill requirements and explore effective collaboration models such as internships, live projects, consultancy, and research partnerships. Faculty members from the ASH department actively participated and interacted with experts.

With this industry collaboration, Department of ASH has signed MoU with Indian Association of Life Skills Education (IALSE) in January 2026 and has been designated as a Nodal Centre. The collaboration will focus on conferences, FDPs, student engagement activities, curriculum enrichment, and research, promoting holistic development and enhanced employability among students and faculty.

Expanding its commitment beyond industry engagement, Department has also strengthened its social outreach initiatives through meaningful collaborations with community-based institutions. The department is actively associated with Punarutthan Samarsata Gurukulam, Chinchwadgaon, Pune, and NFBM Jagriti School for Blind Girls, Alandi Devachi, Pune and signed MoU in October 2025. These collaborations focus on community engagement, student volunteerism, educational support, and inclusive development initiatives. Through outreach activities, awareness programs, mentoring support, and resource sharing, department aims to foster social responsibility among students while contributing to the empowerment and educational advancement of underserved communities.



