Hon'ble Dr. Patangraoji Kadam Saheb
Founder, Bharati Vidyapeeth

BLESSINGS

Bharati Vidyapeeth's
College of Engineering for Women, Pune

Accredited by NAAC with "A" Grade

Participation of women in technology is an important aspect in social and economic development of the nation. It is a critical constituent in the process of improving the quality of life of women themselves. When women have economic empowerment, it is a way for others to see them as equal members of society. Through this, they achieve more self-respect and confidence by their contributions to their communities. As women play key roles in social transformation, Hon'ble Dr. Patangraoji Kadam Saheb established Bharati Vidyapeeth's College of Engineering for Women, Pune in June 2000 with the vision, "Women empowerment through Technical Education" and provided opportunity to women for higher education in the field of technology. The institute was started exclusively for women and it is running with 100% women students. Establishing and running Women Engineering College really contributes to social transformation through dynamic education which is the vision of Bharati Vidyapeeth.

Bharati Vidyapeeth's College of Engineering for Women, Pune

Pune-Satara Road, Dhankawadi, Pune 411043
Recognized by AICTE, New Delhi, DTE Mumbai, Affiliated to Savitribai Phule Pune University
Accredited by NAAC with "A" Grade
Id No.: PU/PN/Engg./150/2000, DTE College Code: EN6285
Phone: (020)24371684, (020)24361732 Fax: (020) 24372210
Email: coewpune@bharatividyapeeth.edu, Website: http://coewpune.bharatividyapeeth.edu

Undergraduate Programme

Sr. No.	Course	Intake	Course Code
1	B.E. Artificial Intelligence and Machine Learning (AI & ML)	60	628592150F
2	B.E. Computer Engineering (CE)	180	628524550F
3	B.E. Electronics and Telecommunication Engineering (E & TC)	120	628537250F
4	B.E. Information Technology (IT)	60	628524650F

Post Graduate Programme

Sr. No.	Course	Intake	Course Code
1	M.E. (Computer Engineering)	12	628524550F
2	M.E. (E & TC-VLSI & Embedded System)	9	628534150F

Research Centre

Course
Ph.D.(Doctoral Program in Electronics and Telecommunication Engineering)

Vision:

- Women Empowerment through Technical Education

Mission:

- Develop women students to rise to their full potential.
- Impart knowledge and prepare competent engineers.

Special Features:

- Best Engineering College with an All India Rank of 61 in THE WEEK-HANSA Research Survey 2024, securing All India Rank 35 among private engineering colleges and an impressive West Zone Rank 11.
- Received "Best Women College of the Year 2019" Award.
- Recipient of "College of Substance" Award.
- The oldest engineering college "exclusively for women".
- All government scholarships are applicable for eligible students.
- Placement opportunities in multinational companies with 100% assistance.
- Excellent university results and tradition of consistent university rank holders.
- MOUs with reputed industries and academia.
- On campus hostel facility with 24 × 7 security.
- DTE approved e-Scrutiny centre for admissions.

Facebook: https://www.facebook.com/Bharati-Vidyapeeth-College-of-Engineering-for-Women-Pune-1599060517007121

Instagram: https://instagram.com/bvcoew_pune?igshid=ep1a85ikhj6s

राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

Certificate of Accreditation

The Executive Committee of the
National Assessment and Accreditation Council
is pleased to declare
Bharati Vidyapeeth's
College of Engineering for Women
Dhankawadi, Tal. Haveli, Dist. Pune,
affiliated to Savitribai Phule Pune University, Maharashtra as
Accredited
with CGPA of 3.15 on four point scale
at A grade
valid up to October 24, 2029

Date : October 25, 2024

Director

35505

EC(SC)/222/2nd Cycle/MHCOGN100226

Principal's Message

Prof. Dr. Pradeep V. Jadhav

Principal

Dear Students, Parents, Alumni, and Esteemed Stakeholders,

Warm Greetings from Bharati Vidyapeeth's College of Engineering for Women!

It gives me immense pleasure to present Volume 8, Issue 1 of our e-newsletter "Blessings..." for the Academic Year 2025-26. As we begin this new academic journey following the memorable celebration of our Silver Jubilee year, we move forward with renewed enthusiasm, strengthened vision, and an unwavering commitment to excellence in technical education and women empowerment.

The beginning of this academic year has been marked by continued growth and academic expansion. This year, our institution introduced a new undergraduate program in Artificial Intelligence and Machine Learning (AI & ML) with an intake of 60 students, along with a postgraduate program in Computer Engineering with 12 seats. Additionally, the college has been recognized as a Ph.D. Research Centre in Electronics and Telecommunication Engineering under Savitribai Phule Pune University. We are also pleased to share that the institution has applied for recognition as a Ph.D. Research Centre in Computer Engineering, further strengthening our research ecosystem and academic capabilities.

This edition of the newsletter reflects the vibrant academic, technical, and research activities conducted during the semester. Workshops, seminars, expert lectures, industrial visits, and student-driven initiatives continue to enrich the learning experience and nurture innovation and leadership among our students.

I extend my sincere appreciation to Prof. Dr. Deepali Godse, the Editorial Board, and the Student Editorial Team for their dedicated efforts in compiling this edition.

Let us continue to work together with determination and innovation to make Bharati Vidyapeeth's College of Engineering for Women a vibrant center of excellence.

With best wishes for a successful academic year ahead.

Internal Quality Assurance Cell (IQAC)

IQAC Objectives:

- To imbibe quality environment at institute in all academic and administrative processes.
- To be instrumental in review of teaching learning process, structures, methodologies and student centric methods for achieving best educational environment.

Roles and responsibilities of IQAC:

- Keeping regular updates of NAAC and other quality improvement circulars.
- Conducting regular meetings of IQAC.
- Preparing Strategic plan of the institute.
- Preparation and submission of Annual Quality Assurance Report (AQAR) yearly.
- Maintaining academic records and conducting various audits at required intervals.
- Taking review of updating and updation of hardware and software requirements and internet facilities.
- Updating feedback forms as per guidelines from regulatory bodies.
- Providing guidelines for implementing ERP.
- Organizing various technical and nontechnical events.
- Preparation of reports of various activities for quality improvement.

Members List:

Sr. No.	Name of the IQAC Member	Designation	Position
1	Prof. Dr. P.V.Jadhav	Head of the Institute	Chairperson
2	Dr. K.D.Jadhav	Joint Secretary of Bharati Vidyapeeth	Member of Management
3	Prof. Dr. S.R Patil	HOD, E & TC Engineering	Teacher Representative
4	Prof. Dr. V. R. Pawar	Academic & Research Coordinator	Teacher Representative
5	Prof. Dr. S. M. Rajbhoj	Industry institute Interaction	Teacher Representative
6	Prof. Mrs. S. M. Thorat	Alumni Coordinator	Teacher Representative
7	Prof. Dr. S. P. Kadam	HOD, Computer Engineering	Teacher Representative
8	Prof. Mr. D. D. Pukale	Senior Faculty	Teacher Representative
9	Prof. Mrs. P. D. Kale	Placement cell Coordinator	Teacher Representative
10	Prof. Dr. D. A. Godse	HOD, Information Technology	Teacher Representative
11	Prof. Dr. K. A. Malgi	ICT & IT Infrastructure Coordinator	Teacher Representative
12	Prof. Dr. A. M. Pawar	HOD, Engineering Sciences and Allied Engineering	Teacher Representative
13	Mrs. Vaishali Kadam	Office Superintendent	Admin. Representative
14	Dr. V.M. Mohite	Librarian	Admin. Representative
15	Mr. Nityanand Prabhutendolkar	Chief Technical Officer, Ergen Technovation Pvt. Ltd.	Industry Representative
16	Mr. Sachin Jahagirdar	Parent	Parent Representative
17	Ms. Shital Patil	Alumna (IT)	Alumni Representative
18	Ms. Sakshi S. Kadam	Student (E & TC)	Student Representative
19	Prof. Dr. S. S. Chorage	Professor (E & TC)	Coordinator of the IQAC

From the Desk of Coordinator...

Prof. Dr. D. A. Godse
Newsletter Coordinator

Dear Stakeholders,

Greetings!

It is with great pride and a sense of deep responsibility that I present the latest edition of our e-newsletter. Published every semester in the revered memory of our founder, Hon. Dr. Patangraoji Kadam Saheb, this edition reflects the high-energy environment of our college as we continue to celebrate our Silver Jubilee year. This past semester has been a period of intense focus and remarkable progress, with every department working tirelessly toward our upcoming NBA accreditation visit. This collective effort shows our shared commitment to providing the best possible technical education for our students.

Innovation remains at the heart of our journey. We are excited to share that we have officially launched our new program in Artificial Intelligence and Machine Learning, a step that aligns our curriculum with the future of global technology. Furthermore, we are moving forward with our plan to establish a dedicated Research Center within the Computer Engineering department to encourage deeper inquiry and discovery. In line with the National Education Policy (NEP), we have successfully implemented the revised curriculum for our First and Second-year students, ensuring a modern and flexible learning experience.

Beyond the classroom, our campus has become a hub for global connection. We were honored to host several distinguished guests from abroad, opening new doors for international collaborations and giving our students a broader perspective on their careers. These interactions, combined with the various technical activities held at both the college and department levels, have truly enriched our academic culture.

I would like to express my sincere thanks to our Principal, Prof. Dr. Pradeep Jadhav, the Heads of Departments, and our dedicated faculty and staff for their hard work during this busy semester. My appreciation also goes to the editorial team for putting this newsletter together and to our enthusiastic students who make these achievements possible. Most importantly, we thank you, our stakeholders, for your steady support over the last 25 years. We look forward to reaching even greater heights together as we continue to empower women through technical excellence.

Department of Information Technology

Vision

Globally competent women engineers through excellence in IT education.

Mission

- *Develop requisite skills and competencies in the field of IT.*
- *Groom students for responsible and rewarding careers in the field of IT.*
- *Build confidence and personality development through curricular, co-curricular and extra-curricular activities.*

Program Educational Objectives (PEOs)

PEO 1:- *To possess strong fundamental concepts in mathematics, science, engineering, and technology to address technological challenges.*
PEO 2:- *To possess knowledge and skills in the field of Computer Science and Information Technology for analyzing, designing, and implementing complex engineering problems of any domain with innovative approaches.*
PEO 3:- *To possess an attitude and aptitude for research, entrepreneurship, and higher studies in the field of Computer Science and Information Technology.*
PEO 4:- *To have a commitment to ethical practices, societal contributions through communities, and life-long learning.*
PEO 5:- *To possess better communication, presentation, time management, and teamwork skills leading to responsible & competent professionals and will be able to address challenges in the field of IT at the global level.*

Program Outcomes (POs):

Graduates of IT program will be able to attain,

1. ***PO 1- Engineering Knowledge:*** *Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems*
2. ***PO 2-- Problem analysis:*** *Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.*
3. ***PO 3-- Design/development of solutions:*** *Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate*

consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. ***PO 4-- Conduct investigations of complex problems:*** *Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.*
5. ***PO 5-- Modern tool usage:*** *Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.*
6. ***PO 6-- The engineer and society:*** *Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.*
7. ***PO 7-- Environment and sustainability:*** *Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.*
8. ***PO 8--Ethics:*** *Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice*
9. ***PO 9--Individual and teamwork:*** *Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings*
10. ***PO 10--Communication:*** *Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.*
11. ***PO 11--Project management and finance:*** *Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.*
12. ***PO 12--Life-long learning:*** *Recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.*

Program Specific Outcomes (PSOs):

Upon successful completion of UG course in Information Technology, the Graduates will be able to attain following Program Specific Outcomes:

PSO 1: *Graduates will possess knowledge of IT infrastructure, data management systems, networking, and security.*

PSO 2: *Graduates will be able to understand and apply algorithmic techniques and programming skills for providing software solutions in the IT industry.*

PSO 3: *Graduates will be capable of acquiring and demonstrating technical competencies in emerging technologies of Information Technology.*

HOD's Message

Prof. Dr. D. A. Godse
Head of Information Technology Department

Dear Stakeholders,

Greetings!

It is an honor to present the latest edition of our departmental e-newsletter, published every semester as a tribute to the inspiring legacy of our founder, Hon. Dr. Patangraoji Kadam Saheb. This message highlights the vibrant academic and professional spirit of the Information Technology Department during our landmark Silver Jubilee year. Our campus is currently filled with immense energy as our faculty and staff work with complete dedication to prepare for the upcoming NBA accreditation visit, a step that reinforces our commitment to global educational standards.

Our students continue to reach new heights in their professional careers. I am delighted to share that Ms. Sharayu Tekade, a student of BE IT, has secured the highest placement package of 22 LPA from Deutsche Bank Pvt. Ltd. This success is a reflection of our department's focus on technical excellence and industry readiness. Furthermore, we ensure the overall development of our students by encouraging them to excel beyond the classroom. Our students have earned prestigious accolades in diverse technical and creative fields, including participating in Artificial Intelligence workshops at the Largest Technical Festival in Asia at IIT Bombay. These achievements are complemented by successes in extra-curricular activities, ranging from national-level swimming championships to top honors in classical Kathak examinations. Such milestones in curricular, co-curricular and extra-curricular areas demonstrate our holistic approach to nurturing well-rounded professionals.

In alignment with modern standards, we have successfully implemented the National Education Policy (NEP) for our First and Second-year students, providing a learning experience that meets the demands of the evolving tech industry.

I extend my heartfelt thanks to our Principal, Prof. Dr. Pradeep Jadhav, our hardworking faculty, and the editorial team for their efforts in capturing these highlights. Most importantly, I thank you, our stakeholders, for your unwavering support over the last 25 years. We look forward to your continued partnership as we strive for sustained excellence in the years ahead.

International Conference on Recent Trends in Science, Technology and Management (ICRTSTM) 2025

Unveiling of the Conference Proceedings during the Second International Conference on Recent Trends in Science, Technology and Management (ICRTSTM 2025).

Bharati Vidyapeeth's College of Engineering for Women (BVCOEW), Pune, successfully organised the Second International Conference on Recent Trends in Science, Technology and Management (ICRTSTM) 2025 on 30th June and 1st July 2025, in association with RSP Conference Hub, Coimbatore, Tamil Nadu. The conference was organised by the Department of Information Technology and conducted in hybrid mode, enabling wide national and international participation.

Inauguration Ceremony and Dignitaries

The conference commenced with a dignified inaugural Ceremony, graced by eminent academicians, administrators, and industry leaders. The Chief Guest, Hon'ble Prof. Dr. Parag Kalkar, Pro Vice-Chancellor, Savitribai Phule Pune University, Pune, emphasised the importance of interdisciplinary research, innovation, and global academic collaboration in addressing contemporary technological challenges.

The ceremony was further honoured by distinguished Guests of Honour including Hon'ble Dr. Asmita R. Jagtap, Executive Director, Bharati Vidyapeeth Medical Foundation, Pune; Hon'ble Prof. Dr. K. D. Jadhav, Joint Secretary, Bharati Vidyapeeth, Pune; Hon'ble Mrs. Asmita Murar, Vice President – Strategy and Transactions, EY-Parthenon; and Hon'ble Dr. M. S. Sagare, Joint Secretary, Bharati Vidyapeeth, Pune. Their presence added immense academic and professional value to the event.

The conference was organized under the leadership of the Convener, Prof. Dr. Pradeep V. Jadhav, Principal, BVCOEW, Pune. The event was efficiently coordinated by the Co-conveners, Dr. Vijaya Pawar and Dr. Ketaki Malgi.

Conference Highlights

ICRTSTM 2025 received an overwhelming response, with 132 teams participating from over 10 countries, including Australia, Egypt, Oman, Indonesia, Nigeria, Iraq, Malaysia, Japan, Turkey, the Philippines, the USA and Vietnam, along with participation from 20 states within India. Researchers from 29 reputed universities and 63 colleges contributed to the conference. The conference aimed to bring together entrepreneurs, academicians, research scholars, and postgraduate students to exchange innovative ideas, share research findings, and discuss practical challenges and solutions in interdisciplinary domains.

Keynote Addresses

The conference featured renowned keynote speakers from India and abroad, who shared valuable insights on emerging research trends and industry practices:

• Dr. A. S. A. Ferdous Alam, School of Business Management, Universiti Utara Malaysia – Empowering Leadership in the AI-Driven Workplace.

• Dr. Kalai Selvan Arumugham, School of Education, Universiti Utara Malaysia – Holistic Assessment in Current Education.

• Dr. Monica Bhutani, Associate Professor, BVCOE New Delhi & Research Associate, Lincoln University, Malaysia – Role of Artificial Intelligence in Research.

• Dr. Hrishikesh Rao, UX Researcher, NewHaptics, USA – Building UX Research Practices on Big Databases with LLM Integration.

• Dr. Suhas Alkunte, Indiana State University, USA – Mechanical Characterization of Functionally Graded Materials

• Dr. Abhijeet Mali, University of North Carolina, Greensboro, USA – High-Performance Sustainable Polymer Composites for Engineering Applications.

• Dr. Praveen Bidare, Senior Lecturer, Advanced Manufacturing, Sheffield, UK – Hybrid Manufacturing: A Viable Option for Future Manufacturing Needs.

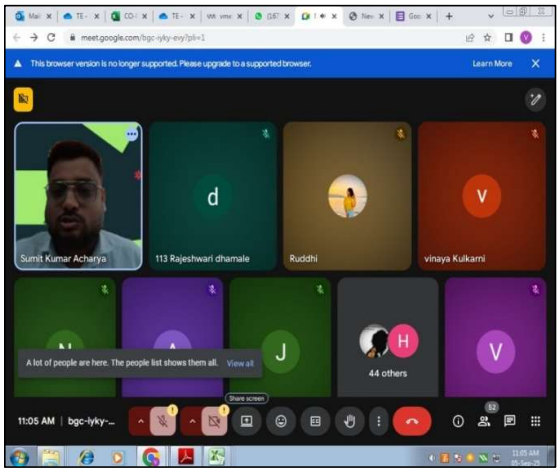
Technical Sessions and Awards

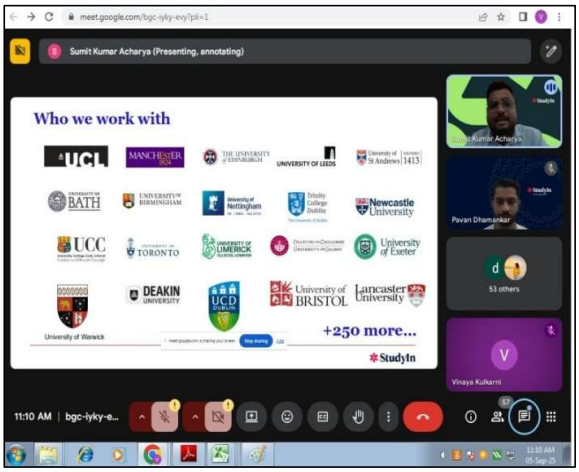
A total of 08 oral presentation sessions were conducted under the guidance of experienced conference chairpersons from reputed institutions across India. 132 research abstracts were presented and classified into six focused research areas.
The best presentations were selected under the UG, PG, Research Scholar, and Faculty categories and were evaluated using a structured rubric to ensure academic rigor and transparency.

Conclusion

The organizing committee extended sincere gratitude to all authors, keynote speakers, reviewers, session chairs, and participants for their valuable contributions. Special thanks were extended to the RSP Conference Hub for publishing the conference proceedings.

Institute Level Activities





A session on "Higher studies & work opportunities Abroad" on 05/09/2025

A session on "How to Prepare for Competitive Exams" on 08/09/2025

A session on "The Importance and preparation of the GATE Examination" on 13/09/25

One to One Counselling Desk for Higher Studies Abroad on 08/10/25

A Session on "From Blueprints to Backlogs: How Engineers Are Redefining Project Leadership" conducted on 30/01/26

Dr. Yogesh Pawar,Dr. Prakash Sharma, Ms. Mansi Bankar (HR Fevino Industries), Mr. Karan Anturkar, Seema Sawant, Mr. Sameer Anturkar and Mr. Vijay Patil conducted a workshop on "Internship & On the Job training Awareness" funded by QIP, SPPU, Pune on 25th August 2025 in presence of Prof. Dr. Pradeep V. Jadhav(Principal),Prof.Dr. S. M. Rajbhoj (IIC Coordinator), Prof. V. D. Kulkarni and Prof. A. V. Akalwadi.

IEEE Student Branch Inauguration – Inaugurated in the presence of Prof. Dr. Amar Buchade, Chair, IEEE Pune Section, Prof. Dr. Pradeep V. Jadhav, Principal, BVCOEW, Pune

MATLAB: Artificial Intelligence Applications in Image, Signal and Text Processing – Delivered by Mr. Ankit Kumar on 24 July 2025.

Motivational Session – Delivered by Mr. Raghvan Koli Author, Engineer, and Motivational Speaker on 7 October 2025

Volunteer Training Activity – Conducted by Mr. Kush Jain Chair, IEEE Student Branch BV(DU)COE, Pune Mr. Shubham Deep Singh Vice-Chair, EMBS Chapter BV(DU)COE, Pune on 11 September 2025.

WebCraft (No Code Edition) – An Innovative Competition – Organized on 29th September 2025

IEEE Membership Drive – Conducted by Ms. Swarali Gosavi, Chair BVCOEW, Pune and Ms. Sakshi Nadgam Vice-chair BVCOEW, Pune on 16th October 2025.

Heartiest congratulations to Ms. Snehal Nigade (Alumni, Batch 2013, E&TC Engineering Department) on her remarkable achievement of being selected as Deputy Superintendent of Police (Dy. S.P.)

Industrial Visit conducted under Startup Cell in Ergen Technovation Pvt. Ltd. Pune on 1st October 2025 in due presence of Prof. Dr. S. R. Patil(HOD-E&TC Engg.),Prof. Dr. S. M. Rajbhoj, Prof. V. P. Mulik (Startup Cell Coordinator) , Prof. A. P. Yadav and Ergen Dignitories.

"Avishkar 2025 College level Project Competition " was held on 10th September 2025.The Judges for the competition ,Prof. Dr. V. R. Bairagi (AISSMS,Pune) and Mr., Ketan Divekar(Geminous Tech Pvt. Ltd.) was graciously felicitated at the hands of Prof. Pradeep V. Jadhav (Principal) in presence of Prof. Dr. S. R. Patil,(HOD -E&TC),Prof. Dr. D. A. Godse(HOD-IT),Prof. Dr. S. P. Kadam(HOD-Comp.), Prof. Dr. V. R. Pawar, Prof. Dr. K. B. Naik, Prof. Dr. S. A. Dhole and Prof. S. B. Karande.

A One Week STTP on "Generative AI A Comprehensive Approach to Research Writing, Proposal Development, and Funding" conducted by Dr. Debabrata Samanta (Program Head & Assistant Professor, Rochester Institute of Technology, Republic of Kosovo), Dr. R. Sujithra (Assistant Professor, School of Computer Science and Engineering, VIT Chennai, India.),Dr. Vani Vasudevan(Professor, Department of Computer Science and Engineering, NItte Meenakshi Institute of Technology, NItte University, Bangalore campus, India.),Dr. Amitava Choudhury (Assistant Professor, Department of Computer Science and Engineering, Pandit Deendayal Energy University, Gandhinagar, India) and Dr Seema(Associate Professor ECE Department, Faculty of Engineering & Technology SGT University, Gurugram) was successfully organized by the Research Cell of Bharati Vidyapeeth's College of Engineering for Women from 4th August 2025 to 8th August 2025.

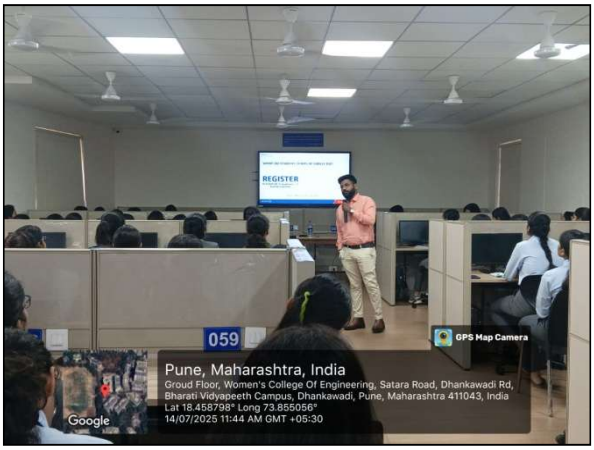
MoU with IPIS, Pune

Dr. Mahesh M. Jadhav, Principal, Prof. Dr. Pradeep Jadhav, Prof. Dr.Sharada Kore, IPR coordinator, E&TC, BVCOEW, Pune 19/9/2025

Seminar on IPR Awareness

Mr. A. A. Roy, Lex Regia, Nagpur, HoD E&TC dept., Prof. Dr. S. R. Patil, Prof. Dr. Sharada Kore, IPR Cell coordinator, E&TC, BVCOEW, Pune on 19/9/2025

An exclusive session on the "Be Future Ready with Azure cloud!", by Mrs. Pooja Sharma, Senior specialist data engineer and Ms. Kaushiki Campus Recruiter, LTI Mindtree, on 18th July 2025



An exclusive session on the "AAKRUTI Innovation Competition 2025 – Global Edition", by Mr. Suraj Gajbhiye (R&D CATIA QE Specialist) and Mr. Shubham Arora (Industry Process Consultant & Community Manager), Dassault Systèmes, on 14th July 2025.

Campus Engagement Program conducted by Mrs. Akanksha Sharma - Sr Executive – Hrbp, Mrs. Ishani Zalte - Executive Talent Acquisition, Mr. Rajesh Sharma - VP, Technology Neilson IQ, on 25th August 2025

Major Technical Activity

Industrial Visit to PHN Technology, Pune

On October 9, 2025, an industrial visit was organized for the Third-Year Information Technology (TE IT) students to PHN Technology, located in Viman Nagar. A total of 65 students participated in this insightful visit. Upon arrival, the group was escorted to the 15th floor of the company, where the session commenced with a comprehensive introduction to PHN Technology, highlighting its areas of expertise and notable achievements in robotics and innovation.

Following the introductory session, the PHN team conducted a live demonstration showcasing four distinct robots developed in-house. The first robot, Denzo, resembling an Iron Man-inspired structure, utilized an HTM32 microcontroller and featured 60 servo motors, enabling it to perform complex movements through advanced kinematics. The second robot, Bhaskar/Aster, is a humanoid model constructed using an ESP microcontroller. It employs a B2 voice model capable of understanding up to 150 voice commands and includes an integrated microphone, making it interactive and intelligent. The third robot, Shwana, is an advanced robotic dog capable of adjusting its angles up to 45 degrees. Equipped with RGB color recognition and an integrated camera, it can detect potential threats, making it suitable for surveillance and security applications. The fourth robot, Guami Hand, operates using an Arduino microcontroller and is connected to a laptop. This system enables the robotic hand to mimic and replicate human finger movements in real time, demonstrating remarkable responsiveness.

All robots were uniquely named using Sanskrit terms, reflecting a harmonious blend of technological innovation and cultural significance. The demonstration session was highly interactive, offering an opportunity to closely observe the functioning of these robots and engage with the presenters during a question-and-answer session.

Subsequently, a guided tour of the company was conducted. The first section included a room displaying various robot prototypes designed to address everyday challenges. Notably, several of these prototypes were developed by school students as young as fifth grade under the mentorship of PHN Technology, highlighting the organization's commitment to nurturing innovation at an early stage.

The visit also included a tour of a specialized drone testing facility. As the company operates within a no-flying zone, an indoor setup has been developed to facilitate drone testing, effectively overcoming the limitations associated with outdoor operations. The final segment of the visit covered the 3D printing room, which housed multiple 3D printing machines. Live demonstrations provided insights into the working principles of 3D printing and the fabrication of components used in robotics.

Overall, the industrial visit proved to be highly informative and inspiring. It offered a clear understanding of the practical applications of robotics, microcontrollers, automation, drone technology, and 3D printing. Additionally, it emphasized the real-world implementation of theoretical concepts learned in academic studies, serving as a strong motivation to explore emerging areas in technology and innovation.

Industrial Visit to " PHN Technology, Viman Nagar, Pune " on 9th October, 2025 for TE IT students.

Technical Activities

Seminar on “The Blueprint of Success for Engineers” by Mr. Raghvan Koli, Founder, Author, and Motivational Speaker

Seminar on “Data Structure and Its Applications” by Mr. Nagesh Mhetre, Director of Click-in Computers, Pune

Seminar on “A Review of PM (Principles of Management) and ED (Entrepreneurship Development) in Today’s Scenario” by Dr. Mrs. Vandana H. Gote , Academic Expert & Resource Person

Seminar on “Placement and Higher Studies Opportunities through GATE and Other Competitive Exams” by Mr. Paresh Gugale, Technical and Motivational speaker

Industrial visit of SE IT students at "Shivshakti Paints", Dhayari Pune

Workshop on “Master Your Mind, Shape Your Career” by Aashi Piparsania, Software Engineer, Paypal (Product-based company in USA) and Representative, Art of Living Foundation

Parent's Article :- Agentic AI Systems: The Next Leap in Intelligent Automation

In recent years, Artificial Intelligence has progressed from predictive analytics and pattern recognition to generative capabilities. The next major breakthrough is Agentic AI intelligent systems capable of autonomous decision making, multi-step reasoning, and goal driven execution without constant human intervention.

Unlike traditional AI models that respond to specific prompts, Agentic AI systems can plan, adapt, and execute complex workflows. These systems combine large language models, reinforcement learning, real time data processing, and tool integration to function as digital collaborators rather than simple assistants.

What is Agentic AI?

Agentic AI refers to AI systems designed with agency—the ability to:

- *Set sub-goals to achieve broader objectives*
- *Interact with external tools and software*
- *Learn from feedback and environmental changes*
- *Perform multi-step task execution*
- *Collaborate with humans in real-time*

These systems operate using a perception-planning-action loop, enabling intelligent automation beyond static rule-based systems.

Applications Across Industries

1. Software Engineering AI agents can autonomously write, debug, test, and deploy code while coordinating across development pipelines.

2. Healthcare Intelligent agents assist in patient data analysis, treatment planning, and administrative workflow optimization.

3. Finance Autonomous financial agents perform risk analysis, fraud detection, and portfolio optimization with adaptive learning models.

4. Smart Manufacturing Agent-based systems dynamically allocate resources, predict maintenance needs, and optimize production schedules.

Why It Matters

Agentic AI represents a shift from task-based automation to cognitive automation. Organizations can reduce operational latency, improve decision accuracy, and enable scalable innovation. However, this advancement also raises critical considerations:

- *Ethical governance*
- *AI alignment and safety*
- *Data privacy*
- *Human oversight frameworks*

Engineering responsible AI systems will be as important as building intelligent ones.

Future Outlook

The future of computing lies in human-AI collaboration ecosystems, where AI agents act as strategic partners in research, innovation, and problem-solving. Universities and technology institutions must integrate AI ethics, advanced machine learning, and systems design into their curricula to prepare students for this evolving landscape.

As industries move toward autonomous enterprises, expertise in AI systems architecture, prompt engineering, AI orchestration, and secure deployment will become highly sought-after skills.

Ms. Sneha Shetty
Software Engineer, Infosys
Sister of student,
Ms. Vaibhavi Shetty

Employer's Article:- Application High Availability: Principles, Metrics, and 2026 Trends

High Availability (HA) is a system design approach that ensures an application remains operational and accessible with minimal downtime, even in the event of component failures. In the modern digital economy, HA is not a luxury but a fundamental requirement for business continuity, particularly for mission-critical sectors like finance, healthcare, and autonomous systems.

1. Defining High Availability

A system is considered "highly available" when it can eliminate single points of failure (SPOFs) and maintain service levels despite hardware, software, or network disruptions. It is typically quantified by "nines" of uptime:

- *99.9% ("Three Nines"): ~8.76 hours of downtime per year.*
- *99.99% ("Four Nines"): ~52.56 minutes of downtime per year.*
- *99.999% ("Five Nines"): ~5.26 minutes of downtime per year (the industry gold standard).*

2. Core Aspects of HA Architecture

To achieve high availability, an application must implement three primary pillars:

- *Redundancy: Duplicating critical components (servers, databases, load balancers) across different physical locations or Availability Zones (AZs) so that if one fails, others are ready to take over.*
- *Automatic Failover: A mechanism that detects a failure and seamlessly reroutes traffic to a healthy redundant component without human intervention.*
- *Monitoring & Health Checks: Continuous observation of system telemetry to proactively identify and isolate degraded components before they cause a total outage.*

3. Key Technical Metrics

- *RTO (Recovery Time Objective): The maximum tolerable duration of an outage (how fast must we get back up?).*
- *RPO (Recovery Point Objective): The maximum amount of data loss tolerable, measured in time (how far back do we go?).*
- *MTBF (Mean Time Between Failures): The average time a system provides service without interruption.*
- *MTTR (Mean Time to Repair): The average time required to troubleshoot and fix a failure.*

4. 2026 Technological Trends in High Availability

The landscape of HA has shifted from reactive manual recovery to autonomous, intent-driven operations. The following trends define the state-of-the-art in 2026:

Trend	Description	Impact
Self-Healing AI (AIOps)	AI models that use reinforcement learning to detect anomalies and autonomously execute remediation (e.g., restarting containers, rolling back faulty deployments).	Reduces MTTR from hours to seconds by eliminating human bottlenecks.
Cloud 3.0 & Sovereignty	A shift toward multi-cloud and "geopatriation" where HA is managed across diverse, regionalized cloud providers to avoid vendor lock-in and geopolitical risks.	Enhances resilience against regional provider outages or regulatory shifts.
Chaos Engineering 2.0	Automated "chaos agents" that continuously inject failures into production to validate self-healing protocols in real-time.	Shifts the mindset from "preventing failure" to "mastering failure."
Predictive Scaling	Using ML to forecast traffic surges and provision resources before the load hits, preventing performance-based downtime.	Maintains "Five Nines" even during massive, unpredictable traffic spikes.
Post-Quantum Resilience	Implementing quantum-resistant cryptographic layers within the HA stack to ensure availability against emerging decryption threats.	Future-proofs data availability and secure access.

Mr. Ajinkya Nakave
Designation - Engineering Manager, Development
Company - InfoScale

Alumna's Article:- Tech Trends 2026: What's Changing in the Industry?

It has been eight months since I traded my backpack for a laptop bag and started my journey in the software industry. While our college labs gave us the essential building blocks, seeing how technology scales in the "real world" has been an eye-opening experience.

The tech landscape is moving away from just "building apps" and toward creating smarter, faster, and more responsible systems. Here are three major trends I've observed from the front lines that every student and fellow alumnus should have on their radar.

1. The Speed of "The Edge"

We've all heard of the Cloud, but the current shift is toward Edge Computing. Instead of sending data to a giant server thousands of miles away, we are now running code on devices much closer to the user—like smart cameras, routers, and wearable tech.

For us as developers, this means focusing on "lightweight" software. The goal in 2026 is to eliminate that "loading" spinner entirely. If you can make an app run instantly without needing a perfect internet connection, you're winning.

2. Green Coding: The New Standard

One of the most interesting shifts I've seen is the move toward Sustainable Software. Companies are no longer just looking for code that works; they want code that is energy-efficient.

In the industry, we are starting to measure the "carbon footprint" of our applications. This means optimizing our logic so it doesn't drain a phone's battery or overheat a server. Efficiency is becoming a mark of high-quality engineering, much like clean code or good documentation.

3. The "Zero Trust" World

Security has moved from being a final step to being the very first conversation. With the rise of Zero Trust Architecture, the old way of "logging in once" is fading.

Modern systems now verify identity at every single layer of an application. For those of you still in school, pay close attention to your Security and Networking classes—they are becoming the most critical parts of the development lifecycle. Understanding how to build "secure by design" is one of the most in-demand skills right now.

A Quick Tip for My Juniors

Transitioning from a student to a professional has taught me one big lesson: Tools change, but fundamentals don't. Whether it's a new framework or a new programming language, the ability to solve problems and think logically is what actually gets the job done. Don't worry about mastering every single new tool that pops up on social media. Instead:

1. Focus on Logic: A good algorithm works in any language.

2. Stay Curious: The best engineers are the ones who keep asking "how does this work under the hood?"

3. Learn to Collaborate: Software is a team sport. Being able to explain your ideas clearly is just as important as writing the code itself.

Final Thoughts

The transition from campus to the corporate world is an exciting leap. The industry is looking for people who are adaptable and eager to learn. Our college gave us the roots; now it's time to use them to build the future.

It feels nice communicating with you through this newsletter as an alumni. All the best for your future...!

Saee Shriram Datar
Software Engineer
Atlas Copco Group
Alumna
(BE-IT Batch of 2025)

Faculty Achievements

Felicitation of Principal Dr. Pradeep Jadhav on his Selection as Director of Bharati Cooperative Bank, Pune

Dr. Pradeep Vitthal Jadhav, Principal of Bharati Vidyapeeth's College of Engineering for Women, Pune, was felicitated on the occasion of his selection as Director of Bharati Cooperative Bank, Pune. The felicitation ceremony was marked by warmth and dignity, reflecting the respect he commands in academic and professional circles.

On this occasion, Hon. Dr. Asmitatai Jagtap and Hon. Dr. Vishwajeet Kadam congratulated Dr. Jadhav and conveyed their best wishes as he assumes this important responsibility. The felicitation recognised his visionary leadership, administrative acumen and long-standing contribution to the field of education, while expressing confidence that his experience and values will play a significant role in strengthening the growth and progress of Bharati Cooperative Bank.

On 15th May 2025, Principal Prof. Dr. Pradeep Jadhav received the Principal of the Year Award for Institutional Excellence at the 8th HEIT Summit and Awards in Pune, honouring his visionary leadership and commitment to academic quality, innovation, and institutional growth.

- Honoured with the **NextGen Research Award 2025**.
- Selected as an awardee by KTK Outstanding Achievers and Education Foundation for the prestigious **"Legendary Icon of India –Award-2025 with "Gold Medal"** and Certificate of Excellence.

Bharati Vidyapeeth's College of Engineering for Women, Pune, has signed a three-year Memorandum of Understanding with Nha Trang University, Vietnam, in the presence of Prof. Dr. Pham Quoc Hung and Principal Dr. Pradeep Vitthal Jadhav, paving the way for student and faculty exchange, joint research, and academic collaboration.

- International Award:- Bharati Vidyapeet's College of Engineering for Women received The Best Educational Institute Award – 2025 by Nha Trang University, Vietnam.
- Prof. Dr. Pradeep V. Jadhav received "The Principal of the Year Award for Institutional Excellence" during 8th Higher EducationInnovation & Technology Summit & Awards.
- Prof. Dr. Pradeep V. Jadhav honoured as "Higher Education Leader of the Year 2025" by University Leaders Forum, Simplilearn.

Dr. Gauri Patil Represents India at International Sport Science Conference in Vietnam

Dr. Gauri Gajanan Patil, Director of Sports and Physical Education at Bharati Vidyapeeth's College of Engineering for Women, Pune, represented India with distinction at the International Conference on Sport Science 2025, held in Vietnam on 12 and 13 June 2025. The conference was organised around the theme "Technology, Sustainability and Comprehensive Health in Sport" which brought together leading experts, researchers and educationists from across the globe.

At this prestigious forum, Dr. Gauri Patil presented her insightful research paper titled "Role of IPL Cricket in Increasing Sports Economy of India through Commercialisation." Her presentation received widespread appreciation for highlighting the powerful intersection of sports, commerce and national development. She discussed how the Indian Premier League (IPL) has become a catalyst for economic growth by generating employment, encouraging infrastructure development, boosting tourism, engaging youth and creating opportunities across allied industries. Her research also explored how IPL has inspired the formation of similar leagues in sports like kabaddi, football and hockey, ultimately contributing to the growth of a multi-sport ecosystem in the country.

This international recognition was made possible due to the consistent guidance and encouragement extended by Prof. Dr. Pradeep Jadhav, Principal of the college, along with the valuable support of the Vice Principals and the wholehearted cooperation of all teaching and non-teaching staff members. Their academic leadership and teamwork created an environment where international excellence could be nurtured and celebrated.

The success of this presentation also reflects the visionary leadership of Bharati Vidyapeeth's top management. Hon. Dr. Vishwajeet Kadam, Secretary of Bharati Vidyapeeth and Pro Vice-Chancellor of Bharati Vidyapeeth Deemed to be University, has always championed international exposure and academic empowerment for faculty and students alike. His forward-thinking initiatives have strengthened the institution's global academic presence. The esteemed Chancellor of the University, Hon. Dr. Shivajirao Kadam, Chancellor Bharti Vidyapeeth Deemed to be University Pune, continues to be a source of guidance and wisdom, upholding Bharati Vidyapeeth's legacy of educational and cultural excellence.

Dr. Asmita Jagtap, Executive Director of Bharati Vidyapeeth Health Sciences, Pune, has played a vital role in integrating health awareness, sports development and holistic education across all campuses. The support and encouragement from Hon. Vijayamala Kadam, Chairperson of Bharati Vidyapeeth's School Committee, have helped inculcate sporting spirit and discipline from the foundational level. The dedicated involvement of Hon. Dr. K. D. Jadhav, Joint Secretary of Bharati Vidyapeeth, has further empowered such academic initiatives, creating a platform for research and representation at international levels.

Dr. Gauri Patil's contribution at the conference is not only a matter of pride for Bharati Vidyapeeth's College of Engineering for Women, Pune, but also a moment of national significance. It symbolises how academic research in sports science can intersect with economic strategy to uplift national potential and global visibility.

This achievement stands as a testimony to Bharati Vidyapeeth's commitment to excellence in sports, research and education. The institution continues to inspire individuals who are capable of creating a global impact through scholarship, leadership and innovation.

 **Dr. Smita S. Jadhav**	**Design Patent Published** Smart AI-Powered Electro-Catalytic Textile Effluent Treatment Reactor (ETETR) on 25/12/2025 (Application No. 485107-001, CBR Number: 228621).
 **Prof. Dr. Nilofar Mulla**	Prof. Dr. Nilofar Mulla becomes the first “Wipro Certified Faculty” under the prestigious Wipro TalentNext – Java Full Stack Certification Programme.

Students' Achievements

The NariYukti TechHack 10th Edition was a prestigious 24-hour national-level hackathon organized by ACM India in collaboration with Infosys, and hosted at the Infosys Hubli Campus. This flagship event was designed to encourage innovation, problem-solving, and technology-driven solutions with strong societal impact, while also promoting women's participation in technology and leadership.
Safa Quadri and Gargi Borkar, BE IT Students were selected as Finalists.

Name of Student	Class	Name of Activity	Recognition/ Award	Organized By
Prachi Kasliwal Nandini Pandey Meher kaur Deepshikha Sharma	TE	Pitchforge	2nd Prize	Bharati Vidyapeeth's College of Engineering for Women, Pune
Isha Thakar Aditi Pathak Tithi Patil	SE	Innovation Arena Pitching Competition	1st Prize	Bharati Vidyapeeth's College of Engineering for Women, Pune in association with IIT Bombay
Tanisha Nipunge Arya Balpande Ishwari Patil Vedika Shinde	BE	Avishakar Project Comeptition	Selected for university level	SPPU, Pune
Nehal Jogad	SE	Oracle APEX'S Xcelerate'25 Hackathon	Top 10 Team	Oracle APEX

Placements from June 2025 to December 2025

Sr. No.	Name of the Student	Company
1	Samiksha Pardeshi	Atlas Copco
2	Ayesha Shaikh	Atlas Copco
3	Siddhi Bhujbal	NielsenIQ
4	Sharayu Tekade	Deutche Bank
5	Yashaswni Shinde	PTC
6	Siddhi Suryavanshi	PTC
7	Vedika Shinde	Airtel
8	Arya Balpande	Airtel
9	Mitali Joshi	KPMG
10	Safa Quadri	Vanderlande
11	Ayushi Pande	Vanderlande
12	Dhanashree Gharage	Consilio
13	Durgeshwari Bhaisade	Thynktech.LTD
14	Akshata Ulbhagat	Thynktech.LTD
15	Srushti Sawant	Thynktech.LTD
16	Kinjal Shah	Capgemini
17	Prachi Thakor	Capgemini
18	Jagruti Boraste	Capgemini
19	Tejal Rokade	Capgemini
20	Prerana Nikam	Capgemini
21	Janhavi Sharma	ITC Infotech
22	Vaishnavi Patil	ITC Infotech
23	Sanika Deokar	ITC Infotech
24	Jagruti Boraste	ITC Infotech
25	Gayatri Kharat	Amdocs
26	Shraddha Barge	Amdocs
27	Farin Attar	Amdocs

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