Kavadsa

...Ray of Hope

3D AI Acceleration Chip

Editor:– Mr.Vikram Abhang

Vision-Mission-PEOs & PSOs

Vision

To serve the needs of society through competent technical education, promoting Industry-Institute Interaction and develop competent and cultured computer Engineers.

Mission

M1: The Mission of computer Engineering Department is to effectively develop and channelize creative talents of students to face challenges posed by ever-changing computing industry with enhancement in Industry-Institute interaction.

M2: We, the faculty & the staff of Computer Engineering department commit ourselves to inculcate good moral values and shape a strong academic background of the pupil so important to work towards the betterment of the society as able technocrats & responsible citizens.

Program Educational Objectives (PEOs)

PEO1: To prepare globally competent graduates having strong fundamentals, domain knowledge, updated with modern technology to provide the effective solutions for engineering problems.

PEO2: To prepare the graduates to work as a committed professional with strong professional ethics and values, sense of responsibilities, understanding of legal, safety, health, societal, cultural and environmental issues.

PEO3: To prepare committed and motivated graduates with research attitude, lifelong learning, investigative approach, and multidisciplinary thinking.

PEO4: To prepare the graduates with strong managerial and communication skills to work effectively as individual as well as in teams.

PEO5: To provide opportunities of industry-institute interactions and to promote Entrepreneurship and start-ups.

Programme Specific Outcomes (PSOs)

A graduate of the Computer Engineering Program will demonstrate-

PSO1: Professional Skills - The ability to understand, analyse and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying.

PSO2: Problem-Solving Skills - The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.

PSO3: Successful Career and Entrepreneurship- The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies**.**

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HOD MESSAGE

Dr. S. K. Sonkar
Head of Department

Dear Students,

It gives me immense pleasure to present the **Sem-I 2025-26** edition of **"KAVADASA"** — a chronicle of the commendable achievements, relentless pursuits, and inspiring initiatives of the Computer Engineering family at Amrutvahini College of Engineering.

This semester has been marked by remarkable enthusiasm, innovation and academic fervor. Our students have distinguished themselves across multiple platforms:

Our teams have continued to excel in competitive arenas, showcasing creativity and problem-solving skills in national-level hackathons and ideathons. **Team "Graviton" won 1st Prize of Rs. 1.5 Lac in Grand Finale of Smart India Hackathon 2025.** 5th times consecutive winners of SIH. These achievements reflect not just technical acumen but also teamwork and perseverance.

I extend heartfelt congratulations to our 3 brilliant students who have been selected for the Cummins Scholarship Programme, a testimony to their academic excellence and potential to contribute to the industry and society.

I am proud to share that our department continues to make strides in placements with significant participation from leading recruiters. Our placement efforts this academic cycle have equipped students with opportunities to begin their professional journeys with noteworthy offers and industry exposure.

In addition to technical competitions, the department has organized a variety of competency-building activities, guest lectures, and workshops that have enriched our students' learning experiences and helped bridge the gap between classroom and corporate expectations.
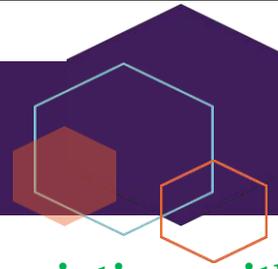
These accomplishments not only augment individual growth but also strengthen the department's vision to nurture competent, ethical and industry-ready professionals. I congratulate every student, faculty member and staff who contributed to these successes. Let us continue to push the boundaries of excellence in the upcoming semesters.

Warm regards,

"Learning today, innovating tomorrow, and leading with integrity — this is the spirit of Computer Engineering."
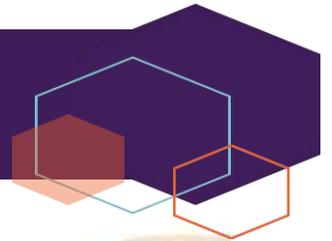
WHAT's NEW IN DEPARTMENT

- **Center of Excellence for AI Driven Campus association with Juniper Networks.**

- **Installation of Four (04) 2-ton AC units in SL-IV & FPL Lab.**

1. DEPARTMENT ACTIVITIES :-

First BoS Meeting :-

The first Board of Studies (BoS) meeting of the Department of Computer Engineering was conducted on 24th July 2025 at 11:30 AM in virtual mode via Google Meet. All faculty members and external experts from academia and industry participated in the meeting. The BoS provided valuable insights and constructive suggestions, many of which were incorporated into the curriculum to enhance academic quality and industry alignment. The meeting concluded with a vote of thanks proposed by Prof. M. B. Vaidya, and the department expressed sincere gratitude to all BoS members for their contributions.

Editor: Mr. V.K.Abhang

Orientation Session on UHV:-

The Department of Computer Engineering, Amrutvahini College of Engineering, Sangamner, organized an enlightening **Orientation Program on Universal Human Values & Professional Ethics** on 30th July 2025 at JRD Tata Hall. Hon. Principal **Dr. M.A. Venkatesh** addressed the gathering, emphasizing the importance of compassion, respect, harmony, and integrity as guiding principles for a meaningful personal and professional life.

Snaps of Session

Snakebite Mitigation Awareness Program:-

The Department of Computer Engineering, under ACES, organized a **Snakebite Mitigation Awareness Program** on 28th July 2025 at Tata Hall, AVCOE, as part of the Community Engagement Project for Second Year students. The session focused on awareness about snakebite causes, prevention, myths, and first-aid measures. The program was introduced by student coordinator Sanket Nagare (SE Div B) with a brief introduction of guest speaker Mr. Vivek Datir, and Coordinated & concluded with a vote of thanks by Dr. Abhinav S. Thorat.

Editor: Mr. V.K.A

Expert session on "Early-Stage Entrepreneurs":-

An expert session on **"Early-Stage Entrepreneurs"** was organized by the Department of Computer Engineering in association with the Institution Innovation Cell (IIC) on 5th August 2025 in physical mode. The session was delivered by **Mr. Rushikesh Shinde,** (CEO, Codeo Software and Defence Guru Cyber Education, Pune), who shared practical insights on idea validation, MVP development, funding avenues, and startup challenges. The program saw active participation from **75** students and faculty members.

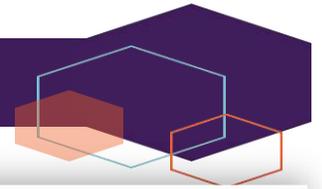## Session on "Market Ka Eklavya Program":-

An online session on **"Market Ka Eklavya Program"** was conducted via Zoom by the National Securities Depository Limited for Second Year students on 6th August 2025. The session covered the fundamentals of financial literacy, including the 3 I's (Income, Inflation, Investment) and 3 S's of investing (Start Early, Spread Wide, Stay Long), with participation from 69 students.

Editor: Mr. V.K.Abhang

Expert Session on Googling Google:-

The Department of Computer Engineering organized an **Expert Session on "Googling Google"** for our Second Year Computer Engineering students on 22nd August 2025. The session was delivered by Dr. Mahesh Sanghavi (Joint Director, SNJB's COE Chandwad) shared valuable insights and practical knowledge. The event was coordinated by Dr. S.K.Sonkar, Dr. G. D. Puri and Prof. A. R. Nehe.

Snap of Interaction

FDP on Drafting Research Funding Proposals :-

The Department of Computer Engineering is organized an **FDP on "Drafting Research Funding Proposals to Grab Grants from Various Agencies"** on 30th August, 2025. Resource Person: Dr. D.R.Dhotre Professor, Computer Engineering, DY Patil IOT,Pune. Coordinated by: Dr. S. K. Sonkar & Dr. A. S. Thorat. FDP was fruitful to grab grants and agencies for grants.

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Lat 19.614193° Long 74.184847°
30/08/2025 01:44 PM GMT +05:30

Editor: Mr. V.K.Abhang

Session on "Professional Ethics and Etiquette ":

A One-Day Expert Session on **"Professional Ethics and Etiquette"** was conducted on 20th September 2025 for Third Year Computer Engineering students. The session was delivered by **Dr. Vrushali S. Sable** and organized by Dr. R. S. Gaikwad and Prof. V. K. Abhang. The program witnessed active participation from **135** students. The session enhanced students' understanding of professional ethics, ethical decision-making, respectful communication, and sustainable engineering responsibility.

"Ethics is knowing the difference between what you have a right to do and what is right to do." — Potter Stewart
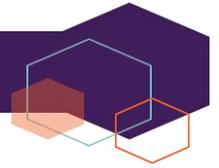
Workshop on Entrepreneurship

A One-Day Workshop on Entrepreneurship Awareness Program was organized on 9th October 2025 for Computer Engineering students by Amrutvahini College of Engineering in association with the Ministry of MSME & IGTR. The session was delivered by Mr. Rajesh Chanchlani, motivational certified life coach and career counselor, and was attended by 190 students. The program was coordinated by Mr. S. N. Shingote.

Snap of workshop

2. Value Added Course:-

2.1 Six Days Training on Quantitative & Logical Reasoning:-

Snap of Session

A training program on **Quantitative and Logical Reasoning** was conducted by Gnosis from 21st to 26th July 2025 at the Computer Engineering Department Seminar Hall for BE Computer Engineering students in collaboration with the CDC, the program aimed to strengthen analytical and problem-solving skills essential for employability and competitive recruitment.

2.2 Artificial Intelligence Workflow and Tools in MATLAB:-

A training session on **"Artificial Intelligence Workflow and Tools in MATLAB"** was conducted on 16th July 2025 by Mr. Ankit Kumar, Expert MATLAB Trainer, MathWorks India. Organized by ACES, the program was attended by Final Year Computer Engineering students and faculty members and focused on hands-on demonstrations of MATLAB tools for building, training, validating, and deploying AI models.

Snap of Session

"The more you learn, the more you earn." — Warren Buffett

Editor: Mr. V.K.Abhang

2.3 Training Session on Soft Skills & Aptitude Test:-

Snap of Session

"Education is the passport to the future, for tomorrow belongs to those who prepare for it today." — Malcolm X

A Training Session on **Soft Skills & Aptitude Test** was conducted for Third Year Computer Engineering (A & B) students from 1st July to 20th October 2025 in Classrooms 3 & 4 by trainers from Gnosis Plus. The program, attended by 136 students, focused on enhancing communication, interpersonal skills, problem-solving, time management, and aptitude test readiness through interactive activities such as mock interviews, group discussions, and aptitude exercises.

2.4 Workplace Communication Excellence

The Department of Computer Engineering organized a **Workplace Communication Excellence** Training session for SE Computer Engineering (A & B) students in Classrooms 1 and 2. The session, conducted by Ms. Neha More, is aligned with the 2024 syllabus pattern and held for 2 hours every week. It aims to enhance students' workplace communication skills, focusing on clear technical communication, teamwork, active listening, concise writing, and effective presentations.

Snaps of session

"Success depends upon previous preparation, and without such preparation there is sure to be failure." — Confucius

Student's attention in Session

"The capacity to learn is a gift; the ability to learn is a skill; the willingness to learn is a choice."
— Brian Herbert

A Value Added Course for **Campus Hiring by Cognizant** was conducted from 15th to 18th September 2025 for BE Computer Engineering students, spanning 4 days (40 hours). The program aimed to prepare a qualified workforce with industry-ready skills, encourage innovation through fresh talent, support succession planning, and strengthen Cognizant's employer brand through effective campus hiring.

A Value Added Course on **Power BI** was conducted from 12th to 19th September 2025 for Third Year Computer Engineering students. The course was delivered by Ms. Yashashree Jahagirdar, Data Analytics Expert, from Manasvi Tech Solutions India Pvt. Ltd., Nashik, and organized by Dr. R. S. Gaikwad. The 30-hour program was attended by 45 students. The course equipped students with skills in data visualization, dashboard creation, DAX analytics, and data-driven decision-making using Power BI.

""Learning is most powerful when theory meets practice." — John Dewey

2.7 Workshop on Google AI Gemini :-

A Workshop on **Google AI Gemini** was conducted online on 1st August 2025, organized by the CDC Cell in association with Smart Bridge Educational Services Pvt. Ltd. and conducted by the Department of Computer Engineering. The 3-hour hands-on session introduced students to Generative and multimodal AI using Google Cloud, Vertex AI, Gemini API, and AI Studio, offering practical exposure to real-world AI applications.

Snap of workshop

2.8 Training on Block chain Technology:-

A Training Program on **"Blockchain Technology"** was conducted in association with Gnosis Plus from 8th to 13th September 2025 at the Microprocessor Lab, Organized by the Department of Computer Engineering and coordinated by Ms. J. N. Ganthade, Ms. Y. S. Gunjal, and Mrs. P. A. Thorat, the training was delivered by Mr. Akash Sachadev, Trainer at Gnosis Plus, Nashik. The program covered blockchain fundamentals, Ethereum, Solidity, and development tools such as RENX-IDE, Truffle, Node, React, and Hardhat, with participation from 50 students.

3. INDUSTRIAL VISITS:-

1. S.E. Computer Engineering students visited **Yuva Polymer & Packaging Industries, Sangamner** as part of the Entrepreneurship Development Skill initiative on 5th August 2025. The visit offered students valuable real-time exposure to startup operations, polymer and packaging manufacturing processes, and key entrepreneurial challenges and insights. Accompanied by Dr. S.A.Thanekar, Prof. P.A.Thorat, Prof. J.N.Gnathade.

Snap of Visit

2. An industrial visit of T.E. B to **Netleap IT and Training Solution** and **Bits & Bytes, Nashik** was conducted on 10th October 2025 with participation from 47 students accompanied by Prof. V. K. Abhang and Prof. K. U. Rahane. The visit provided practical exposure to modern software engineering practices, corporate workflows, and IT career pathways through presentations, live demonstrations, lab visits, and interactive sessions.

Snap of Industrial Visit

"Education and industry must walk together— knowledge creates ideas, industry turns them into reality." — A. P. J. Abdul Kalam

Editor: Mr. V.K.Abhang

3. An industrial visit for T.E. A students was conducted on 8th October 2025 to **Manasvi Tech Solutions Pvt. Ltd., Nashik.** A total of 54 students participated, accompanied by Dr. R. S. Gaikwad, Prof. A. R. Nehe, and Prof. S. B. Phatanagre, Prof. A.N.Inamdar. The visit helped students understand real-time industrial applications of computer engineering concepts, industry workflows, tools, and technologies.

Snap of Industrial Visit

4. *ALUMNI INTERACTION:-*

1. An Alumni Interaction Session was conducted on 7th August 2025, featuring Mr. Pratik Thorat, Senior Software Engineer at Zocdoc, Pune. The session on **"Machine Learning and Large Language Models (LLMs)"** provided valuable technical insights and practical exposure to B.E. Computer Engineering students.

2. An Alumni Interaction Session on **"Preparing for Cognizant Technical and HR Interviews"** was conducted on 21st September 2025 in online mode by Gauri Dighe, currently working at Cognizant Technology Solutions.

"Alumni are not just memories of an institution, but mentors for its future."

Editor: Mr. V.K.Abhang

3. An Alumni Interaction Session on **"How to Build a Career in the Field"** was conducted on 8th August 2025 by Dr. Dhanshri Landge, Senior Research Analyst at Mordor Intelligence, Pune. The session was attended by 80 Second Year students and was coordinated by Dr. R. S. Gaikwad, Mrs. A. R. Nehe, and Ms. S. B. Phatangare.

4. An Alumni Interaction Session on **"Recent Trends in Market"** was conducted on 8th August 2025 by Mr. Sujit Dengale, Salesforce Developer at Accenture, Pune. The session was attended by 75 Second Year students and coordinated by Dr. M. A. Wakchaure and Dr. A. S. Thorat.
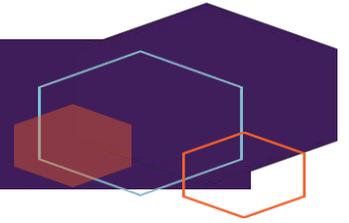

5. An Alumni Interaction Expert Session on **"Placement Opportunities Abroad"** was conducted on 7th October 2025 for Third Year students. The session was delivered by Mr. Parimal Rupawate, who shared insights on global job trends, required skill sets, resume building, interview preparation, certifications, and effective use of professional networking platforms, guiding students toward international career opportunities.

Editor: Mr. V.K.Abhang

5. MILAP- Alumni Meet in Pune:--

ALUMNI MEET 2025 was organized in Pune on 11th October 2025, with the participation of 50 alumni. Dr. S. K. Sonkar interacted with the alumni and shared insights on the department's initiatives and achievements. The meet facilitated meaningful interaction between alumni and faculty, strengthening industry–institute collaboration and exploring opportunities in the IT sector.
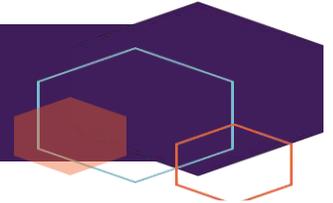

Snaps of Alumni Meet

"Coming together is a beginning; keeping together is progress; working together is success." — Henry Ford

Editor: Mr. V.K.Abhang

6. ACES ACTIVITIES:-

The Department of Computer Engineering and ACES organized the **Freshers' Party** for S.E. students on 31st July 2025 at Dronagiri Hall. The event featured performances, games, and the popular **Mr. & Ms. Fresher Contest**, creating a joyful and welcoming atmosphere for the new students. The contest was judged by Prof. V. K. Abhang, Prof. K. U. Rahane, Prof. R. S. Gaikwad, and Prof. A. R. Nehe, and included rounds such as a balloon game, talent showcase, and Q&A. Based on overall performance, **Mr. Vedant Rahane** was crowned Mr. Fresher and **Ms. Pranjal Girase** was crowned Ms. Fresher. Coordinated by Dr. G.D.Puri ACES Coordinator.
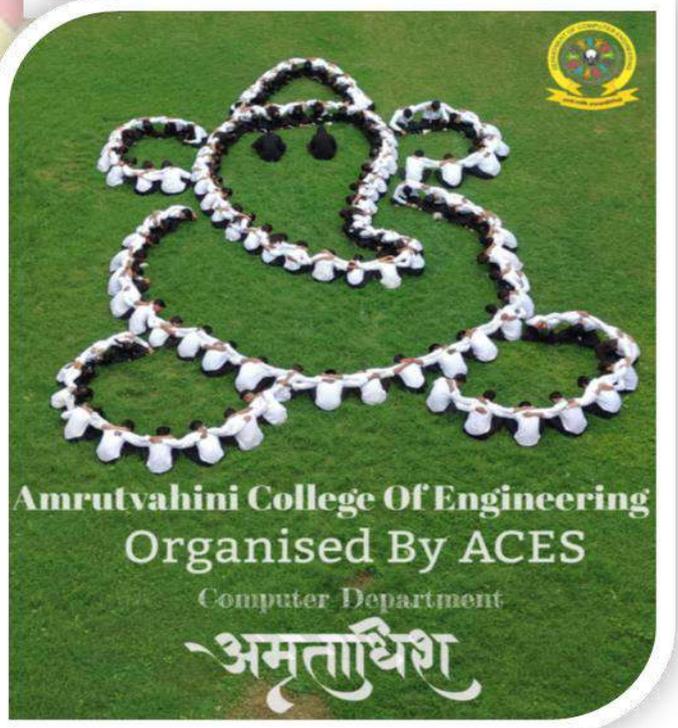

Snap of Fresher's Party

Ganesh Utsav 2025 at Amrutvahini College of Engineering was celebrated with great devotion and enthusiasm by the Department of Computer Engineering and ACES, creating a spiritually uplifting and joyful atmosphere across the campus from 27th August to 2nd September, 2025. The celebration beautifully blended tradition and creativity through daily aartis, cultural performances, and student-led activities, encouraging active participation from students and faculty alike. With collective efforts in organizing, decorating, and performing, the entire campus came together in the spirit of devotion and togetherness, making **Ganesh Utsav 2025 a memorable and cherished celebration for the AVCOE family.** Coordinated by Dr. G.D.Puri (ACES Coordinator) & Prof. S.R.Pandit(Cultural Coordinator) under the guidance and support of HoD Dr. S.K.Sonkar.

Memories of Ganapati Festival

Editor: Mr. V.K.Abhang

Teachers Day Celebration

The Department of Computer Engineering, in collaboration with ACES (Association of Computer Engineering Students), celebrated **Teachers' Day** on 8th September 2025 with great enthusiasm and reverence. The event was organized to express heartfelt gratitude to teachers for their continuous guidance, mentorship, and invaluable role in shaping students' futures.
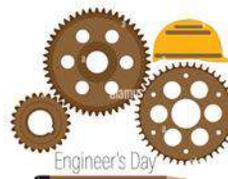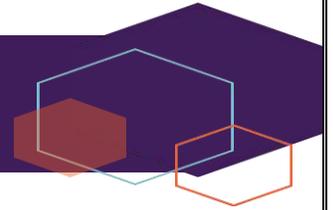

Engineers Day Celebration:-

The Department of Computer Engineering, in association with ACES, celebrated **Engineers' Day** on 17th September 2025 at AVCOE. The event featured a Speech Competition, providing students a platform to showcase their talents while honoring engineers' contributions to society. The competition was judged by Dr. N. J. Chaudhari from the AIDS Department. Dr. G. D. Puri Sir, ACES Coordinator, felicitated the jury member as a mark of respect and gratitude.

"Behind every successful engineer stands a dedicated teacher who taught them how to dream and how to build." — A. P. J. Abdul Kalam

Editor: Mr. V.K.Abhang

6. ISTE CHAPTER ACTIVITIES:-

Learner to Leader: Lead by an example

The Department of Computer Engineering, under the ISTE Student Chapter, organized an event titled **"Learner to Leader: Lead by an Example"** on 10th September 2025 for Second Year students. The session began with Ms. K. U. Rahane, ISTE Coordinator, who emphasized the importance of ISTE membership.

Pareek Parinita (Final Year) guided students on **early GATE preparation** and strengthening core subjects. Aher Rushikesh (Final Year) shared practical tips on **internship preparation and skill development.** Anushka Khilari and Chaitanya Patil discussed **placement preparation strategies and hackathon participation**, sharing insights from SIH experience. Rohan Raundal (Third Year) explained the **Cummins Scholarship program**, including its selection process and benefits. The event motivated students to proactively plan their careers and concluded with feedback and suggestions for future ISTE activities.

Snaps of Interaction

"Example is not the main thing in influencing others. It is the only thing." — Albert Schweitzer

r: Mr. V.K.Abhang

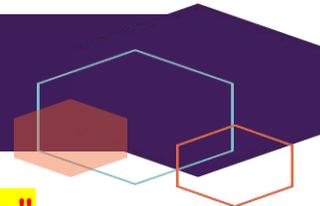## Orientation session on "How to Prepare for SIH-2024"

The Department of Computer Engineering under ISTE student chapter organized an Orientation Program on **"How to Prepare for Smart India Hackathon (SIH) 2025"** on 2nd September 2025 in S M V Conference Hall. The session was aimed at guiding students from various disciplines on the structure, expectations, and effective preparation strategies for participating in SIH-2025.

The session was delivered by Mr. V. K. Abhang, who provided a detailed overview of the Smart India Hackathon initiative. A total of 150 students attended the session, representing multiple departments, reflecting the interdisciplinary interest in the event. Finally, the session ended with words of motivation, urging new participants to focus on innovation, originality, and practicality by Dr. Swati B. Bhonde. She reassured that while the journey is challenging, the learning experience, recognition, and memories make it worthwhile. Coordinated by Ms. K.U.Rahane.

Editor: Mr. V.K.Abhang
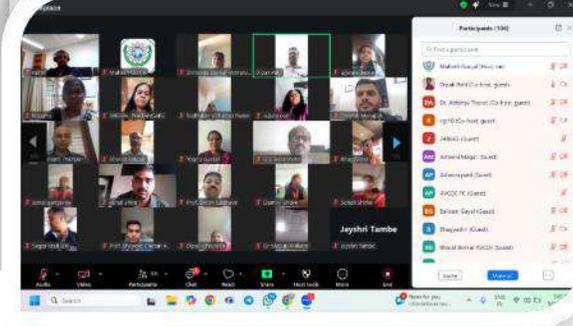
7. IEEE CSI chapter:-

One Week FDP Report on "Emerging Trends in Computing"

A **one-week Faculty Development Programme (FDP) on "Emerging Trends in Computing"** was successfully conducted, offering faculty members valuable knowledge and practical insights into modern technologies. The FDP featured expert sessions on **Cloud Computing** by **Dr. Amol Admute**, **RPA & Generative AI** by **Er. Santosh Shete**, **Generative & Agentic AI** by **Dr. Shashikant Patil**, and a **hands-on workshop on Generative AI & LLMs** by **Dr. Pramod Bide**. Further sessions included **Earth Observation & Remote Sensing** by **Dr. Akshay Patil (Solafune, Japan)** and **AI for Remote Sensing** by **Dr. Rishikesh Tambe (University of Leicester, UK)**.

The programme was coordinated by **Dr. D. R. Patil** with **Dr. A. S. Thorat and Dr. M. B. Gunjal** serving as **Co-Coordinators**. The FDP provided a balanced blend of theoretical knowledge and hands-on learning, enriching faculty understanding of emerging computing paradigms and their real-world applications.

> **"Live as if you were to die tomorrow. Learn as if you were to live forever." — Mahatma Gandhi**
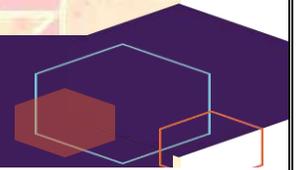
Editor: Mr. V.K.Abhang

The **Department of Computer Engineering**, Amrutvahini College of Engineering, Sangamner, in association with the **IEEE Computer Society Student Branch Chapter (SBC63271C)**, organized an **Expert Session on "Innovation and Startup Program"** on **IEEE Day 7th October 2025**. The session, held from **10:00 AM to 11:30 AM**, was delivered by **Mr. Parimal Rupawate**, Software Developer at **Klarna**.

The talk highlighted the importance of **innovation, creativity, and entrepreneurial thinking**, with insights into real-world problem-solving and transforming ideas into viable products. The session witnessed active participation from **75 students**, inspiring them toward **startup and innovation-driven careers**.

Mr. Parimal Interaction with Students

8. Internal Hackathon for SIH 2025:-

Amrutvahini College of Engineering, Sangamner successfully organized the **Internal Hackathon for Smart India Hackathon (SIH) 2025** on **12th & 13th September 2025**, with a **record 137 teams (822 students)** participating across departments. The inaugural session featured inspiring addresses by **Principal Dr. M. A. Venkatesh** and **Dr. S. K. Sonkar**.

The hackathon was coordinated by **Mr. Vikram K. Abhang (SPOC–SIH)**, with **Dr. S. B. Bhonde, Ms. K. U. Rahane, and Mr. V. K. Abhang** serving as **organizing members**.

The event was evaluated by a distinguished jury of **industry experts and SIH alumni achievers**, including **Mr. Prasad Kharde (Oracle)**, **Mr. Vaibhav Sharma (Huron Eurasia)**, **Mr. Nishant Kale (Pravara Infotech)**, **Mr. Shivkumar Khurana (Cognizant)**, **Mr. Sujit Dengale (Accenture)**, **Mr. Shreesh Singh**, and **Mr. Prabhat Panday (Kennect Technologies)**.

From **137 teams**, **50 teams** were shortlisted for **SIH 2025 idea submission**, reflecting AVCOE's strong legacy of **innovation and national-level hackathon success**.

Total Teams Participated: - **137**
Total Students Participants:- **822**
Total Male Participants:- **409**
Total Female Participants:- **413**
Selected Total Male Participants:- **158**
Selected Total Female Participants:- **142**

Editor: Mr. V.K.Abhang

9. Parent- Teachers Meet:-

A **Parent's Meeting for Second Year Computer Engineering** students was conducted on **7th August 2025** at **SVM Hall**. The meeting aimed to strengthen communication between the department and parents by sharing student progress, achievements, and departmental initiatives.

A total of **25 parents** attended and gained valuable insights into academic activities, student accomplishments, and career opportunities. The session encouraged constructive interaction among faculty, parents, students, and alumni, and motivated students through guidance and success stories. The event was coordinated by **Dr. G. D. Puri** and **Mrs. A. R. Nehe**.

A **Parent's Meet for T.E. and B.E. Computer Engineering students** was held on **14th October 2025**. **Dr. S. K. Sonkar** delivered the welcome address and presented departmental initiatives. **Jay Phad (B.E.)** and **Pranita Deshmukh (T.E.)** shared their experiences, followed by an interactive discussion with parents.

The event was coordinated by **Dr. R. S. Gaikwad**, **Prof. V. K. Abhang**, **Dr. M. B. Vaidya**, and **Prof. S. R. Pandit**.

Editor: Mr. V.K.Abhang

10. Student Laurals:-

1. Marking **Fifth Consecutive victory**, **Team Graviton** secured the **1st Prize of ₹1,50,000 at the Smart India Hackathon 2025,** held at Manav Rachna International Institute of Research and Studies, Faridabad.

Problem Statement ID: PS-SIH25263

Title: Farm-Level Yield Estimation Using Very-High Spatial Resolution Data and Robust Crop Models.

Winning Team Members: Chaitnya Thorat – BE Comp, Parag Patil – TE Comp, Gayatri Nawale– TE Comp, Isha Singh – SE Comp

2. Prize in the **Ganapati Making Competition** organized by NSS, AVCOE.

First Prize:- Team: Morya Creativity
Members: Sayali Gore, Sayali Kadam, Sejal Gayake, Tanishka.

Third Prize:- Team: Jal-Mati-Ganpati
Members: Girase Pranjal , Jay kale.

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Sr. No.	Name of Student	Event Name	Name of Organizer	State / National / International Level	Achievement / Prize
1.	Pratmesh Satpute Prathmesh Sawant Vivek Shelke	ICSIT(IEEE)	Symbiosis Institute of Technology, Nagpur	International	1st
2.	Sahil Gawande Harshwardhan Bharitkar Harshal Chattar Karan Fulsoundar	ICCUBEA – 2025 9th IEEE International Conference on Computing, Communication, Control & Automation	Pimpri Chinchwad College of Engineering (PCCOE), Pune	International	Best Paper Award
3.	Pratik Jadhav, Mayuri Gawande, Gadekar Gayatri, Tushar Badakh	10th International Conference On ICT For Sustainable Development (ICT4SD)	GR Foundation in Goa	International	-
4.	Sakshi Wagh, Snehal Shirsath, Vaibhavi Pujari, Shrirang Sonwane	10th International Conference On ICT For Sustainable Development (ICT4SD)	GR Foundation in Goa	International	-
5.	Adik Somal , Aglave Nikhil, Akolkar Vivek, Ghondage Pratik	10th International Conference On ICT For Sustainable Development (ICT4SD)	GR Foundation in Goa	International	-
6.	Chaitanya R. Patil, Kunal D. Pawar, Parag H. Patil, Bhushan Sadgir, Zashi Patil	6th IEEE India Council International Subsections Conference	IEEE Rourkela Subsection and IEEE India Council held at National Institute of Technology, Rourkela	International	-
7.	Aditya Ravindra Choudhari	Training and Internship in Artificial Intelligence	Acmegrade	International	-
8.	Aditya Ravindra Choudhari	Introduction to Retrieval Augmented Generation	IBM Skillsbuild	International	_
9.	Aditya Ravindra	Ethical	IBM Skillsbuild	International	_

	Choudhari	Consideration for Generative AI			
10.	1.Sakshi Hase 2.vaishnavi Khose 3.Ishita Gilatkar 4.Vaishanavi Khatal	Smart Secure :Security Assessment of Smart home Using IoT	IEEE Conference	International	_
11.	1.Sakshi Deshmukh 2.Gauri Dighe	AI Driven Electricity Demand Response System : Predictive Analysis and Dynamic Pricing Using LSTM	IEEE Conference	International	_
12.	Sarthak S. Bhalgat Tushar D. Bogir, Aditya D. Bhise, Rushikesh J. Aher	Enhancing Diabetes Risk Prediction using KNN Feature Imputation and Tri-ensemble Learning Model with Risk Categorization and Visualization	IC-RACT 2025 Amity University Publication Partner by Springer	International	_
13.	Gourav Kaire Mr. Aditya Akolkar Vaishnavi Dunde	Smart India Hackathon 2025	Manav Rachna International Institute of Research and Studies, Faridabad	National	-
14.	Manhas Shobha Signh	Blood Donation	AVCOE, Computer , Dept	College	-
15.	Navale Chaya and group	Rangoli Competition	AVCOE, Computer,Dept	College	3rd
16.	Jay Kale and group (Jal Mati Ganpati)	Ganpati making Competition	AVCOE, Computer,Dept	College	3rd
17.	Jay Kale	Photography & Reel Making Competition	AVCOE, Computer ,Dept	College	-
18.	Vedant Rahane	Photography & Reel Making Competition	AVCOE, Computer ,Dept	College	-

"Students' achievements are reflections of perseverance, dedication, and the courage to push beyond limits. Each success builds confidence, inspires growth, and shapes future leaders."
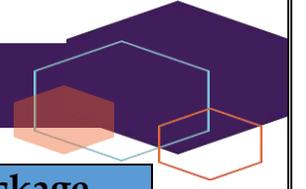**― Dr. A. P. J. Abdul Kalam**

Editor: Mr. V.K.Abhang

10. Placements:-

Sr. No	Name	Company	Package (LPA)
1	Rushikesh Janardan Aher	Cognizant	4.25
2	Sarthak Sandip Bhalgat	Cognizant	4.25
3	Atharv Ramesh Deshmukh	Cognizant	4.25
4	Sayam Balasaheb Godase	Cognizant	4.25
5	Akshada Shivaji Gunjal	Cognizant	4.25
6	Sumedha Gopinath Karpe	Cognizant	4.25
7	Vaibhav Madhukar Kolhe	Cognizant	4.25
8	Amit Tarachand Mandlik	Cognizant	4.25
9	Amit Bhagwan Patil	Cognizant	4.25
10	Harshal Bandu Mhetre	Cognizant	4.25
11	Krushna Ankush Sahane	Cognizant	4.25
12	Prajwal Sanjay Ghule	Cognizant	4.75
13	Pranali Dnyaneshwar Hase	Cognizant	4.75
14	Sakshi Manohar Pichad	Cognizant	4.25
15	Siddhant Pandurang Phatangare	Cognizant	4.25
16	Tejal Bharat Mulay	Cognizant	4.25
17	Vedant Bharat Naikwadi	Cognizant	4.25
18	Vedant Prakash Sabban	Cognizant	4.25
19	Vishakha Satish Ingale	Cognizant	4.75
20	Aditya Somnath Sarode	Cognizant	4.25
21	Asmita Bhimashankar Wani	Cognizant	4.25
22	Sumedha Gopinath Karpe	Infosys	4.25
23	Ankita Jalindar Rakte	Infosys	3.6
24	Pratibha Balasaheb Phatangre	Infosys	3.6
25	Sejal Dipak Bajaj	Infosys	3.6
26	Supriya Balasaheb Phatangre	Infosys	3.6
27	Tejal Sharad Ambre	Infosys	3.6
28	Anuj Bhausaheb Gadekar	pibythree	5
29	Bhumika Dinesh Chitte	pibythree	5
30	Sayali Ramprasad Gayake	pibythree	5
31	ANIKET ASHOK LIPANE	WeMotive	4.5
32	Pankaj Someshwar Katre	WeMotive	4.5
33	Samruddhi Bhausaheb Wakchaure	WeMotive	4.5

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34	Suraj Rajendra Khairnar	WeMotive	4.5
35	Aryan Pramod Sabale	LCube	3
36	Shreya Shrikant Phakade	LCube	3
37	Shivani Ghare	LCube	3

"The future depends on what you do today." — Mahatma Gandhi

12. *Faculty Laurals:-*

Dr. Shrinivas Kishanrao Sonkar
Engineering Achievement Award by
The Institute of Engineers, Ahilyanagar Local
Center on the occasion of the 58th Engineers' Day (18th Sept. 2025).

1. Dr. S. K. Sonkar Received **Engineering Achievement Award** by The Institute of Engineers, Ahilyanagar Local Center on the occasion of the 58th Engineers' Day (18th Sept. 2025).

2. Dr. S. K. Sonkar was honored with the **'State-Level Ideal Teacher Award 2025'** on 26 October 2025, presented by Swapnapurti Education, Pune.

Felicitation by CEO & Principal Sir

3. Dr. S.A.Thanekar received the **"Researcher of the Year – Postdoctoral Level"** award at the prestigious Bharat Udyog Samman Puraskar 2025, presented by SwiftNLift and Cosmos Bank.

4. Dr. Swati Bhonde received **Best Paper Award** on paper entitled "Modeling And Forecasting River Flood Inundation Using Machine Learning" in International IEEE conference @ICCUBEA organised by PCCOE, Pune.

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5. Dr. M.B.Vaidya Awarded Ph.D. in Computer Engineering from Dr. BAMU, Ch. Sambhajinagar.

6. **Dr. S.K.Sonkar, Dr. M.A.Wakchaure, Dr. G.D.Puri, Mr. Y.A.Shinde** successfully completed the **NPTEL Certification course titled "OBE and Accreditation"** during Jul–Oct 2025.

7. **Dr. A.S.Thorat** successfully completed the **NPTEL Certification course titled "Data Base Management System"** during Jul–Oct 2025.

8. **Mr. V.K.Abhang** successfully completed the Hashgraph Developer Course on 5th December,2025.

"Faculty achievements reflect commitment to excellence, lifelong learning, and academic leadership."

13. Interaction with Outside World:-

1. **Dr. S.K. Sonkar** delivered an expert session on **"AI-Powered Education Platforms and Tools"** in online mode, organized by DY Patil College of Engineering, Akurdi, on 25th August 2025.

2. **Dr. S.K. Sonkar** invited as Resource Person for **ATAL FDP on AI-ML and It's Application** organized by Amrutvahini Polytechnic, Sangamner dated on 9th and 10th September, 2025.

3. **Dr. S.K. Sonkar** invited as Resource Person for **ATAL FDP on** Build your AI Skills Through AI Powered Education tools to the participants of FDP on 17th December 2025 at Sahyadrivalley COET, Rajuri.

4. **Dr. S.K. Sonkar** invited as Resource Person for **AICTE-ATAL** Two Weeks Advanced FDP on Energizing the Future: Leveraging the Synergy of cloud Computing & Artificial Intelligence on 23rd December,2025 at METs IOE, Nashik.

5. **Dr. M.A.Wakchaure** delivered seminar on **"Network Security"** on 16th July 2025, Department of Information Technology, PREC Loni.

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6. **Dr. M.A.Wakchaure** invited as **Session Chair** in International Conference on Information, Implementation, and Innovation in Technology 2025 (I2ITCON-2025) organized by Hope Foundation's I2IT, Hinjawadi, Pune.

7. **Dr. M.A.Wakchaure** invited as **Session Chair** in Engineering Advances 2025: Second International Conference held on 29th & 30th December 2025, organized by Pravara Rural Engineering College, Loni.

8. **Dr. M.A.Wakchaure** delivered expert lecture on **"Introduction to Cyber Security"** on 5th August 2025, at SMBST Senior College, Sangamner.

9. **Dr. D.R.Patil** invited as **Reviewer** 3rd international Conference on Recent Advances in Computational Techniques 2025 (IC-RACT 2025) Organized by Amity University Maharashtra, Mumbai on 13th & 14th November 2025.

10. **Dr. S.B.Bhonde** invited as **Jury Member** for **Internal Hackathon for Smart India Hackathon 2025** at Amrutvahini Polytechnic, Sangamner on 18th September,2025.

11. **Mr. V.K.Abhang** delivered one day session on **"Universal Human Values & Professional Ethics"** on 7th August, 2025 at Sahyadrivalley College of Engineering, Rajuri, Alephata.

12. **Mr. V.K.Abhang** delivered expert session on **Preparation of Smart India Hackathon 2025** at KBT COE, Nashik on 18th September,2025.

"Academic excellence shines brighter when shared with the wider scholarly community."

14. FDP/STTP/Workshop Attended:-

1. **Mr. V.K. Abhang, Mrs. P.A.Thorat, Ms. J.N.Ganthade, Dr. A.S.Thorat** has completed the NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) from 9th to 18th July 2025.

2. **Kavita U. Rahane** has completed the **NEP 2020 Orientation & Sensitization Programme** under Malaviya Mission Teacher Training Programme (MM-TTP) of

University Grants Commission (UGC) Organized by Centre for Faculty Development & Educational Technology (CFDET), Indian Institute of Technology (BHU) Varanasi from 14th to 23rd July, 2025.

3. **Dr. M.A.Wakchaure** has successfully completed One Week Faculty Development Program on INTELECT: INNOVATION IN TECHNOLOGY, LEARNING & COMPUTING TRENDS Sponsored by Swami Logipool Infotech, Pune & organized by Department of Computer Engineering, SCSMCOE,Nepti, and Ahilyanagar. From 26th June 2025 to 1st July 2025.

4. **Arshad N Inamdar** has successfully completed One Day Online Faculty Orientation Program on SE AI&DS Syllabus 2024 Course under the aegis of Board of Studies, Computer Engineering, SPPU,Pune, for the subject Operating System (PCC-203-AID) NEP 2020 based Curriculum organized by Marathwada Mitra Mandal's Institute of Technology, Lohgaon, and Pune on 15th July 2025.

5. **Ms. S.B. Phatangare** One Day Faculty Orientation Program on "Object Oriented Programming & Computer Graphics" of S.E. Computer Engineering (2024 Course), organized by the Department of Computer Engineering, MET's Institute of Engineering, Nashik, in association with the Board of Studies, Computer Engineering, SPPU, Pune on 23rd July, 2025.

6. **Dr. S.B.Bhonde & Ms. K.U.Rahane** has successfully participated in the Faculty Orientation Program on "Data Structures (SE-Computer ,2024 Pattern)" held on 15th July 2025, organized by the Department of Information Technology association with Board of Studies(Computer Engineering), SPPU Pune.

7. **Dr. S.A. Thanekar ,Prof. K.U.Rahane** has successfully completed the one day online Faculty Orientation Program on "SE COMPUTER/CSE/AI&DS Syllabus 2025" Course under the aegis of Board of Studies, Computer Engineering, Savitribai Phule Pune University, for the subject of "Entrepreneurship Development" on 6th August 2025 organized by the Department of Computer Engineering at Bharati Vidyapeeth's College of Engineering for Women, Pune.

8. **Dr. S.A.Thanekar & Mr. V.K.Abhang, Prof. K.U.Rahane** has actively participated in the Faculty Development Program on "Universal Human Values Curriculum Delivery and Evaluation" organized by the Department of Basic
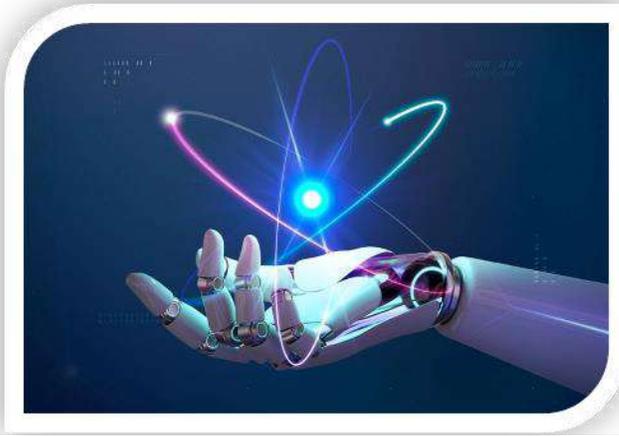
Engineering Science of Indira College of Engineering & Management, in association with Savitribai Phule Pune University on 11th August 2025.
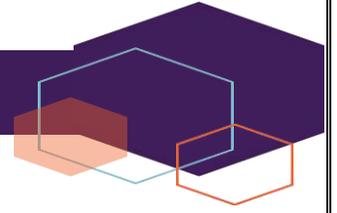
9. A total of **22** faculty attended One Day FDP on **"Drafting Research Funding Proposals to Grab Grants from Various Agencies"** on 30th August 2025 by the Department of Computer Engineering at Amrutvahini College of Engineering, Sangamner.

10. **Prof. R.L.Paikrao, Mr. V.K.Abhang & Prof. R.F.Shaikh** attended Two days FDP on **"Universal Human Values & Professional Ethics"** on 19th & 20th August, 2025 at AVCOE, Sangamner.

11. **Dr. S.K. Sonkar** attended FDP on "AI-Powered Education Platforms and Tools" in online mode, organized by DY Patil College of Engineering, Akurdi, on 25th to 30th August 2025.

12. A total of **22** faculty attended One Week FDP on **"Emerging Trends in Computing"** from 8th to 13th September 2025 by the Department of Computer Engineering at Amrutvahini College of Engineering, Sangamner.

13. **Dr. S.B.Bhonde, Ms. K.U.Rahane**, **Mr. V.K.Abhang** has successfully completed AICTE Training And Learning (ATAL) Academy Faculty Development Program on **AI-Powered Healthcare: Emerging Technologies and Innovations in Med-Tech** at Dr. D. Y. Patil Institute Of Technology. From 6th to 11th October, 2025.

14. **Mr. V.K.Abhang** has successfully AICTE Training And Learning (ATAL) Academy Faculty Development Program on **Revolutionizing healthcare, The role of AI in Drug Development, Clinical trials and practice** at Indian Institute of Information Technology Allahabad from 13th to 18th October 2025.

"FDPs nurture skills, inspire research, and strengthen pedagogy."

Editor: Mr. V.K.Abhang

15. Publications:-

Conferences:-

1. **Ms. K.U.Rahane** presented research paper titled Smart Secure: Security Assesment of Smart Home using IoT presented in the 4th IEEE International Conference on Blockchain & Distributed Systems Security **(IEEE ICBDS 2025)** held on 30th , 31st October & 1st November 2025, organized by BSIET, Kolhapur.

2. **Dr. S.B.Bhonde** presented research paper titled Al Driven Electricity Demand Response System: Predictive Analytics and Dynamic Pricing Using LSTM presented in the 4th IEEE International Conference on Blockchain & Distributed Systems Security (IEEE ICBDS 2025) held on 30th , 31st October & 1st November 2025, organized by BSIET, Kolhapur.

3. **Dr. M.B.Vaidya** presented paper Brain Tumor detection using CNN at the 10th International Conference on ICT for Sustainable Development, Goa on 16th July 2025.

4. **Dr. G.D.Puri** presented paper AIR Quality Monitoring System Implementation using ARINA and LSTM at the 10th International Conference on ICT for Sustainable Development, Goa on 16th July 2025.

5. **Dr. G. D. Puri** presented a research paper titled Redefining Trust in the Food Chain with Blockchain and Machine Learning at the 6th IEEE India Council International Subsections Conference at the National Institute of Technology, Rourkela.

6. **Mr. V.K.Abhang** presented paper Performance Enhancement of Deep Learning Techniques for Predicting Drug Reactions with Multi-Omics Data At the 10th International Conference on ICT for Sustainable Development, Goa on 16th July 2025.

7. **Dr. A. S. Thorat** presented a research paper titled Enhancing Diabetes Risk Prediction using KNN Feature Imputation and Tri-Ensemble Learning Model with Risk Categorization and Visualization at IC-RACT 2025, held at Amity University.

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8. **Dr. R. S. Gaikwad** presented a research paper titled Social Media Sentiment Analysis to Explore Semantic Relations using EfficientNet-V2 at the ICSIT 2025 Conference held at the Symbiosis Institute of Technology Nagpur.

Copyright:-

1. **Dr. Sachin Thanekar and Prof. Yogesh Shinde** registered Copyright (Reg. No. 5435/2025-CO/L) for their work titled Advanced Traffic Optimizer: Urban Mobility & Emergency Routing.

2. **Dr. Sachin Thanekar and Prof. Yogesh Shinde** registered Copyright (Reg. No. 5017/2025-CO/L) for their work titled A Hybrid Deepfake Detection Framework Using Multimodal Analysis.

3. **Prof. V. K. Abhang** registered Copyright (Reg. No. LD-39898/2025-CO) for the work titled Gene Mutation: Somatic, Germline, and Indel Using Whole Genomic Sequencing Data.

4. **Prof. Yogesh Shinde** registered Copyright (Reg. No. LD-40516/2025-CO) for the work titled CloudShield-CAONT: Efficient Data Dynamics and Ownership Management in Secure Deduplication Cloud Environments.

Patent:-

1. **Dr. M. A. Wakchaure** patent application (No. 202402101510) titled A System for Detection of Brain Tumor was filed on 02 March 2024 and subsequently published on 28 March 2025.

2. **Ms. K.U.Rahane** the Patent Application No. 202521062344 titled 'A System and Method for Detecting and Mitigating Cybersecurity Vulnerabilities in Internet of Things Environments' was filed on 30 June 2025 and subsequently published on 18th July 2025.

3. **Mr. V.K.Abhang** the patent application (No. 202521072094 A) titled A Deep Learning System for Drug Response Prediction on 29 July 2025 and published in The Patent Office Journal No. 32/2025.

"Patent publications showcase a culture of research, creativity, and technological advancement."

Editor: Mr. V.K.Abhang

Book Publication:-

1. **Dr. S. A. Thanekar** published the book titled 'Machine Learning for Air Quality Forecasting: A Lightweight Model Approach Using Open Datasets' with Research Beacon Publication (ISBN: 978-81-989722-4-8) in July 2025.

2. **Dr. G. D. Puri** authored the e-book titled 'The Relationship between Psychology and Neural Networks: Connecting Mental Processes with Machine Intelligence,' which was published on Amazon Kindle in November 2025.

3. **Dr. Swati B. Bhonde** and **Prof. Kavita U. Rahane** authored the book titled 'IoT for Beginners' which was published on Amazon Kindle in November 2025.

4. **Mr. Vikram Abhang** published a book chapter titled 'Predicting Drug Response Using Deep Learning Techniques' in the book Applied Machine Learning in Health Care, published by CRC Taylor & Francis in 2025

5. **Prof. S. N. Shingote** published the e-book titled 'Quality-Driven Software Engineering' on Amazon Kindle in December 2025.

"Publishing a book transforms expertise into a resource for the global academic community."

Paper Publication in Journals:-

1. **Dr. D. R. Patil** published a research paper titled 'Optimizing Convolutional Neural Networks for Web Security with Hyperparameter Tuning to Enhance Model Performance' in the International Journal of Applied Mathematics (ISSN: 1314-8060), Volume38, No. 1s, 2025. DOI: https://doi.org/10.12732/ijam.v38i1s.38

2. **Dr. M. A. Wakchaure** published a research paper titled 'Facial Recognition: A Learning Approach' in the International Journal for Research in Applied Science and Engineering Technology (IJRASET) (ISSN:2321-9653),Vol.13,Issue-VII,2025.

    DOI: https://doi.org/10.22214/ijraset.2025.71151

3. **Dr. Swati B. Bhonde** published a research paper titled 'Blueprint of Life: Decoding the Human Genome' in Computer Research and Development (ISSN:

1000-1239), Volume 25, Issue 4, 2025. DOI: https://doi.org/20.2040/crd.v25.2025.4518.

4. **Dr. Swati B. Bhonde** published a research paper titled 'A Novel Approach for Recommendation Using Optimized Bidirectional Gated Recurrent Unit' in the International Journal of Electrical and Computer Engineering (IJECE) (ISSN: 2088-8708), Vol. 15, No. 5, 2025. DOI: https://doi.org/10.11591/ijece.v15i5.pp5019-5030.

5. **Ms. K.U.Rahane** published a paper on Neuro Fuzzy Smart System Vulnerability Detection in Journal of Applied Bioanalysis, 11(6s), 774-782, Dec 2025. https://doi.org/10.53555/jab.v11si6.23642.

6. **Ms. K.U.Rahane** published a paper on Dynamic Neuro-Fuzzy Vulnerability Detection System (DNF-VDS). Cureus J Comput Sci 3 : es44389-02500009-3. January 12, 2026
DOI https://doi.org/10.7759/s44389-025-00009-3

7. **Mr. V.K.Abhang** published a research article titled 'Enhanced Deep Learning Framework for Drug-Response Prediction: Feature Selection and Imputation Strategies for Multi-Omics Data' in the Journal of Applied Bioanalysis (ISSN: 2405-710X), Vol. 11, No. 5, October 2025, pp. 706–715. DOI: http://doi.org/10.53555/jab.v11i5.648.

16. Techno-Zone:-

Breaking the AI Bottleneck: The Rise of Multilayer 3D AI Acceleration Chips

In December 2025, computer engineering witnessed a watershed moment with the unveiling of a **multilayer 3D AI acceleration chip** — a breakthrough poised to transform how artificial intelligence (AI) computations are performed at the hardware level. This new class of chip challenges the long-standing limits of traditional flat silicon designs and opens the door to a new era of performance, efficiency, and chip innovation.

Editor: Mr. V.K.Abhang

Beyond Flat Chips: A Vertical Leap in Hardware -Conventional computer chips are essentially two-dimensional slabs of silicon, where processing units and memory are laid out side-by-side on a single plane. While this design has served the industry for decades, it increasingly struggles to keep up with the explosive demands of modern AI workloads, which require massive data movement between memory and compute elements.

The revolutionary *multilayer 3D AI acceleration chip* tackles this problem head-on by stacking multiple layers of circuitry vertically — think of it as a skyscraper of processing power rather than a sprawling single-story campus. This three-dimensional integration drastically reduces the distances that data must travel inside the chip, minimizing delays and energy loss. Early tests show performance improvements of **several times over traditional 2D chips**, with potential for even greater gains as the technology matures.

Collaborative Innovation in Semiconductor Engineering

This pioneering chip results from a collaborative effort between researchers at premier U.S. universities — including Stanford, Carnegie Mellon, and University of Pennsylvania — and SkyWater Technology, the largest exclusively U.S. based pure-play semiconductor foundry. Notably, this is the **first monolithic 3D chip designed and manufactured within a commercial foundry**, rather than only in academic labs, signaling a critical shift toward mainstream adoption.

The engineering team achieved record-setting densities of vertical interconnects — the tiny conduits that link stacked layers — enabling data to move faster and with lower energy costs than ever before. By tightly interweaving memory and compute layers, the design minimizes the "memory wall" bottleneck that has long hindered high-speed AI computing.
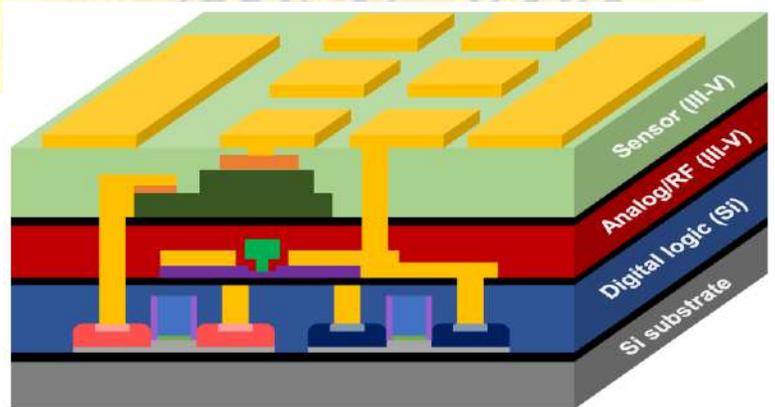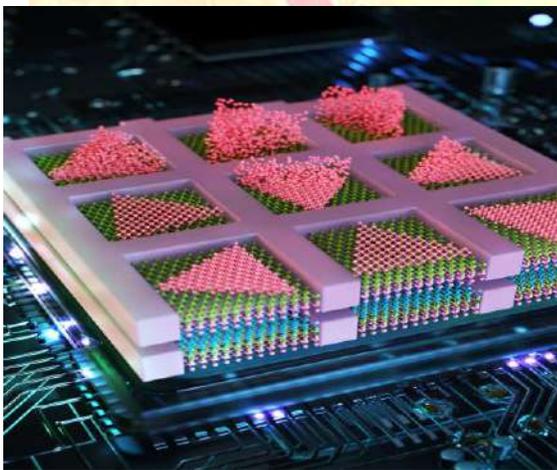
Why 3D Matters for AI and Beyond

AI workloads — especially for large language models, autonomous systems, and real-time analytics — demand ever-higher throughput and energy efficiency. Traditional chips expend much of their power simply moving data between memory and processing units, rather than doing actual computation. The 3D approach fundamentally changes this paradigm by keeping data and logic physically closer.

Editor: Mr. V.K.Abhang

Experts describe this innovation not just as an incremental improvement, but as a **foundational shift in chip design**, with the potential to accelerate everything from data center AI servers to edge computing devices.

Challenges and Future Directions - Despite the optimism, significant challenges remain. Multilayer chips must manage increased heat density, manufacturing complexity, and new design tools are required to fully leverage 3D architectures. Engineering teams and electronic design automation (EDA) vendors are already developing new software workflows to address these hurdles, ensuring that thermal and structural challenges are handled as chip stacks grow even taller.

Moreover, industry momentum suggests that this is just the beginning. Advances in vertical wiring, materials science, and three-dimensional packaging are converging — potentially ushering in a new wave of AI hardware innovation that could eclipse decades of progress in planar chip design.

A New Era for Computer Engineering

The launch of multilayer 3D AI acceleration chips marks a pivotal moment in computing history. By redefining how memory and compute elements are organized, this technology promises to break through existing performance ceilings and dramatically improve the efficiency of AI systems that power everything from cloud data centers to autonomous robots.

Multilayer 3D AI acceleration chip with vertically stacked compute and memory layers.

"Every once in a while, a new technology, an old problem, and a big idea turn into an innovation." — Dean Kamen

Editor: Mr. V.K.Abhang

17. FORTHCOMING ACTIVITIES:-

ACES Activity: - GD, Debate, Quiz, Extempore, and Farewell Party.
IEEE CSI Students Chapter Activity: - Guest lecture, Workshops
Other Activities:- MEDHA 2k26 ,MILAP- Alumni Meet, Internal SIH, Industrial Visit, Expert Sessions, Value Added Course, MIST AI FDP.

HAPPY NEW YEAR 2026!

Department of Computer Engineering received the MathWorks Recognition Plaque

Editor: Mr. V.K.Abhang

NEWS FLASH

पाचव्यांदा मुलांनी पारितोषिकासह दीड लाख जिंकले

▶ संगमनेर (वा.) अमृतवाहिनी अभियांत्रिकी महाविद्यालयाच्या विद्यार्थ्यांना स्मार्ट इंडिया हॅकॅथॉनमध्ये फरीदाबाद- हरियाण येथे कृषी व शेतकरी कल्याण मंत्रालयाकडून ग्रायबीन संघाला प्रथम पारितोषिक दीड लाख "अतिउच्च अवकाशीय रिझोल्युशन डेटा आणि मजबूत पीक मॉडेल्सच्या सहाय्याने शेतपातळीवरील उत्पादन अंदाज" ह्या संशोधन प्रोजेक्टसाठी मिळाले. या स्पर्धेसाठी ५६ मध्यवर्ती केंद्रे तयार करण्यात आली होती आणि ८ ते ९ डिसेंबर २०२५ दरम्यान सलग ३६ तासांची ऑफलाइन कोडींग स्पर्धा घेण्यात आली. महाविद्यालयातून दोन संघ फरीदाबाद (हरियाणा), गाझियाबाद (उत्तर प्रदेश) केंद्रावर येथे सहभागी झाले होते. यासाठी देशातून ६८७६६ संघांनी सहभाग नोंदवला, अशी माहिती प्राचार्य डॉ. एम.ए. वेंकटेश यांनी दिली. या प्रकल्पामध्ये उपग्रह व ड्रोनमधून मिळणाऱ्या अचूक प्रतिमा, हवामान माहिती आणि आधुनिक संगणकीय पीक मॉडेल्सचा उपयोग करून शेतामधील पिकांचे उत्पादन आधीच अचूक अंदाजाने मोजण्याची प्रणाली विकसित करण्यात आली आहे.

अमृतवाहिनीच्या विकासासाठी प्रयत्नशील

अमृतवाहिनी अभियांत्रिकी महाविद्यालय बेचाळीस वर्षांपासून विद्यार्थ्यांच्या विकासासाठी प्रयत्नशील आहे. ग्रामीण भागातील विद्यार्थ्यांच्या राष्ट्रीय व आंतरराष्ट्रीय स्तरावरील विकासाची परंपरा हे महाविद्यालय विविध उपक्रमाद्वारे जपत आहे. विद्यार्थ्यांच्या विविध कौशल्य विकासासाठी नवनवीन उपक्रम महाविद्यालय द्वारे सतत राबविले जातात. अखिल भारतीय तंत्रशिक्षण परिषद व शिक्षण मंत्रालय दिल्ली यांच्या संयुक्त विद्यमाने जगातील अतिमोठी डिजीटल उपक्रम स्पर्धा गेली ८ वर्षांपासून आयोजित करण्यात येते. सलग ८ वर्षे महाविद्यालयातील विद्यार्थी व त्यांचे मार्गदर्शक शिक्षक ह्या स्पर्धेत सहभाग नोंदवत आहेत. आता पर्यंत महाविद्यालयाच्या २० संघांनी अंतिम फेरीत सहभाग नोंदवला तसेच १२ लाख रु. चे बक्षीस मिळाली आहेत.

स्मार्ट इंडिया हॅकॅथॉनमध्ये सहभाग

सलग ३६ तास प्रोग्रामिंग कोडींग चालणाऱ्या स्पर्धेतून प्रथम पारितोषिक मिळवणाऱ्या संघाला आंतरराष्ट्रीय स्तरावर होणाऱ्या स्पर्धेत सहभाग घेता येतो. स्मार्ट इंडिया हॅकॅथॉनमध्ये सहभागी होण्यासाठी महाविद्यालयीन पातळीवर अखिल भारतीय तंत्रशिक्षण परिषद यांच्या नियमावली नुसार इंटर्नल हॅकॅथॉन फॉर स्मार्ट इंडिया हॅकॅथॉन २०२५ ही स्पर्धा १२ आणि १३ सप्टेंबर, २०२५ रोजी घेण्यात आली. स्पर्धेमध्ये १३७ संघ आणि ८२२ विद्यार्थ्यांनी सहभाग नोंदवला. त्यापैकी ५० संघांची सॉफ्टवेअर व हार्डवेअर एडीशनसाठी निवड करण्यात आली. अंतरमहाविद्यालयीन हॅकॅथॉन स्पर्धेचे आयोजन प्रा. विक्रम अभंग, डॉ. स्वाती भोंडे, प्रा. कविता हाणे यांनी केले. महाविद्यालयातील २ संघांची निवड महाअंतिम फेरीसाठी झाली. तसेच विद्यार्थ्यांना दिलेल्या आयडीयाचे भारत सरकार कडून कॉपीराइट्स पेटेंले आहे.

विविध क्षेत्रांतील मान्यवरांची उपस्थिती

या संघात आदित्य अकोलकर, चैतन्य पाटील, आदित्य पाटील, सुहानी पाटील, प्रणव खरे वैष्णवी दुंडे सहभाग नोंदवला. विद्यार्थ्यांच्या घवघवीत यशाबद्दल संस्थेचे अध्यक्ष राज्याचे माजी महसूल मंत्री बाळासाहेब थोरात, विश्वस्त आ. डॉ. सुधीरजी तांबे, शरद् देशमुख, अनिल शिंदे, डॉ. जे. बी. गुरव, प्राचार्य डॉ. एम. ए. वेंकटेश, रजिस्ट्रार प्रा. व्ही. पी. वाघे व संगणक विभाग प्रमुख डॉ. एस. के. सोनकर, आय. टी. विभाग प्रमुख डॉ. बी. एल. गुंजाळ यांनी अभिनंदन केले.

स्मार्ट इंडिया हॅकॅथॉन मध्ये अमृतवाहिनी अभियांत्रिकीच्या विद्यार्थ्यांचा दैदिप्यमान विजय

पाचव्यांदा प्रथम पारितोषिकासह दिड लाख रुपये जिंकले

🖊 संपादक :- विनोद जबरे - 2 days ago 👁 932

स्मार्ट इंडिया हॅकॅथॉन मध्ये अमृतवाहिनी अभियांत्रिकीच्या विद्यार्थ्यांचा दैदिप्यमान विजय

या प्रकल्पामध्ये उपग्रह व ड्रोनमधून मिळणाऱ्या अचूक प्रतिमा, हवामान माहिती आणि आधुनिक संगणकीय पीक मॉडेल्सचा उपयोग करून शेतामधील पिकांचे उत्पादन आधीच अचूक अंदाजाने मोजण्याची प्रणाली विकसित करण्यात आली आहे. यामुळे शेतकऱ्यांना योग्य नियोजन, खर्चात बचत आणि उत्पादन वाढीस मदत होणार आहे. मानव रचना इंटरनॅशनल इन्स्टिट्यूट ऑफ रिसर्च अँड स्टडीज, फरीदाबाद(हरियाणा) येथे ग्रायबीन संघाला प्रथम पारितोषिक मिळाले. धीरज डहाळे (संघ प्रमुख , तृतीय वर्ष , आय टी), चैतन्य थोरात (चतुर्थ वर्ष , कॉम्प्युटर),पराग पाटील (तृतीय वर्ष , कॉम्प्युटर),गायत्री नवलें (तृतीय वर्ष , कॉम्प्युटर), गौरी चंटुरे(तृतीय वर्ष , आय टी), ईशा सिंग (द्वितीय वर्ष , कॉम्प्युटर) हे विद्यार्थी विजयी संघात होते. ह्या दोन्ही संघाला मार्गदर्शन प्रा. विक्रम अभंग, माजी विद्यार्थी नरेंद्र वखारे यांचे मिळाले.

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पाचव्यांदा प्रथम पारितोषिकासह दिड लाख रुपये जिंकले

संगमनेर । प्रतिनिधी । अमृतवाहिनी अभियांत्रिकी महाविद्यालयाच्या विद्यार्थ्यांना स्मार्ट इंडिया हॅकॅथॉनमध्ये फरीदाबाद – हरियाणा येथे कृषी व शेतकरी कल्याण मंत्रालयाकडून ग्रायबीन संघाला प्रथम पारितोषिक रु. दीड लाख "अतिउच्च अवकाशीय रिझोल्युशन डेटा आणि मजबूत पीक मॉडेल्सच्या सहाय्याने शेतपातळीवरील उत्पादन अंदाज" ह्या संशोधन प्रोजेक्टसाठी मिळाले. या स्पर्धेसाठी ५६ मध्यवर्ती केंद्रे तयार करण्यात आली होती आणि ८ ते ९ डिसेंबर २०२५ दरम्यान सलग ३६ तासांची ऑफलाइन कोडींग स्पर्धा घेण्यात आली. महाविद्यालयातून दोन संघ फरीदाबाद(हरियाणा), गाझियाबाद (उत्तर प्रदेश) केंद्रावर येथे सहभागी झाले होते. यासाठी देशातून ६८७६६ संघांनी सहभाग नोंदवला. अशी माहिती महाविद्यालयाचे प्राचार्य डॉ. एम.ए. वेंकटेश यांनी दिली.

या प्रकल्पामध्ये उपग्रह व ड्रोनमधून मिळणाऱ्या अचूक प्रतिमा, हवामान माहिती आणि आधुनिक संगणकीय पीक मॉडेल्सचा उपयोग करून शेतामधील पिकांचे उत्पादन आधीच अचूक अंदाजाने मोजण्याची प्रणाली विकसित करण्यात आली आहे. यामुळे शेतकऱ्यांना योग्य नियोजन, खर्चात बचत आणि उत्पादन वाढीस मदत होणार आहे.

मानव रचना इंटरनॅशनल इन्स्टिट्यूट ऑफ रिसर्च अँड स्टडीज, फरीदाबाद(हरियाणा) येथे ग्रायबीन संघाला प्रथम पारितोषिक मिळाले. धीरज डहाळे (संघ प्रमुख , तृतीय वर्ष , आय टी), चैतन्य थोरात (चतुर्थ वर्ष , कॉम्प्युटर),पराग पाटील (तृतीय वर्ष , कॉम्प्युटर),गायत्री नवलें (तृतीय वर्ष , कॉम्प्युटर), गौरी चंटुरे(तृतीय वर्ष , आय टी), ईशा सिंग (द्वितीय वर्ष , कॉम्प्युटर) हे विद्यार्थी विजयी संघात होते. ह्या दोन्ही संघाला मार्गदर्शन प्रा. विक्रम अभंग, माजी विद्यार्थी नरेंद्र वखारे यांचे मिळाले.