



# PAAVAI

EDUCATIONAL INSTITUTIONS

Think Education... Think Paavai.

NH-44, Paavai Nagar, Pachal, Namakkal - 637 018

# PAAVAI VOICE

MAY - 2025

A MONTHLY BULLETIN

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# Chairman's message

Dear parents and students!

Greetings from your Chairman

It gives me immense pleasure to speak with the students, parents and faculty through Paavai Voice - May'25.

It gives me great joy to convey my heartfelt wishes on the grand occasion of our Sports Day Celebration. Sports play a vital role in shaping the overall personality of students, teaching them valuable life lessons such as discipline, teamwork, leadership, and resilience. I am proud to see the enthusiastic participation and the spirit of healthy competition displayed by our students. This celebration is not just about winning or losing but about striving for excellence, pushing personal limits, and embracing sportsmanship. I encourage each one of you to continue to engage in physical activities and maintain a balance between academics and fitness. Let us carry forward the energy, unity, and determination we have witnessed today into all aspects of our lives.

International Conference on Adaptive Technologies 2025 is another milestone which serves as a dynamic platform for researchers, academicians, and industry experts to exchange groundbreaking ideas and innovations. Adaptive technologies are transforming the way we live and work, and this forum fosters collaboration to push boundaries further. I am confident that the sessions have inspired fresh perspectives and practical solutions. Promoting research and innovation not only enhances academic excellence but also strengthens the potential for sustainable development and global competitiveness. Let us join hands in shaping a more inclusive and adaptive technological future.

The recent Memorandum of Understanding (MoU) will pave the way for fruitful collaborations, internships, industry projects, and knowledge exchange, benefiting both students and faculty members. It reflects our continuous commitment to providing our students with practical exposure and industry-relevant skills. This collaboration aims to foster mutual growth through knowledge sharing, skill development, internships, and joint research initiatives. I am confident that this MoU will open new doors of opportunity and further strengthen the bridge between academia and industry.

Shakespeare Day was celebrated with great enthusiasm and reverence in our college to honor the legacy of the world-renowned playwright, William Shakespeare. The event featured various activities such as dramatic performances of Shakespearean scenes, poetry recitations, quizzes, and speeches highlighting his timeless contributions to literature. Students actively participated by showcasing their talents through role-plays and creative interpretations of his works.

Research and innovation play a crucial role in driving progress and shaping the future across all fields of study. They encourage critical thinking, creativity, and the development of new ideas, technologies, and solutions that address real-world challenges. Through research, individuals and institutions explore uncharted areas of knowledge, while innovation transforms these discoveries into practical applications that benefit society and fosters a culture of continuous learning and improvement, contributing to advancements in science, technology, healthcare, education, and industry.

Students, I extend my warm greetings to each one of you. As you embark on this journey of learning and growth, I encourage you to make the best use of the opportunities provided by our institution. Education is not just about acquiring knowledge but about developing the right attitude, discipline, and commitment to excellence. Always strive to uphold integrity, embrace challenges, and pursue your goals with passion and perseverance. Remember, success comes to those who are willing to work hard and stay focused.

I wish you all the very best in your academic endeavors and future achievements.

Warm regards,

Chairman

## International Conference on Adaptive Technologies for Sustainable Growth (ICATS'25)

Paavai Engineering College hosted 10<sup>th</sup> Edition of the International Conference on Adaptive Technologies for Sustainable Growth ICATS'25, on 28.05.25 through Institution's Innovation Council and Bonfring Technology Solutions as the knowledge partners, Indian Society for Technical Education (ISTE), The Institution of Engineers (IE), Computer Society of India (CSI) and Jet Aerospace (Global Drone Hub). This conference has evolved into a vibrant platform over the years, bringing together distinguished researchers, academicians, industry experts, and budding innovators from across the globe. ICATS'25 is a testimony to our enduring belief that technology, when driven by purpose and adaptability, can solve some of the greatest challenges facing our planet today.



The conference was presided by CA N.V.Natarajan, Chairman and Smt. Mangai Natarajan, Correspondent, Paavai Educational Institutions. Dr. K.K.Ramasamy, Director-Administration welcomed the gathering. The guest speakers were Dr. Elisabetta Sieni, Senior Professor, Dept. of Theoretical & Applied Sciences, University of Insubria, Italy, Dr.Vincenzo Torretta, Full Professor of Sanitary & Environmental Engineering, University of Insubria, Italy and Mr.S.Ingersal, Scientist 'H', Former Group Director, Liquid Propulsion System Center, ISRO, Bangalore.

The theme of this year's edition – Adaptive Technologies for Sustainable Growth reflects our focus on the synergistic relationship between technological advancement and environmental responsibility. As we embrace the fourth industrial revolution, it becomes imperative to channel innovation towards solutions that are inclusive, efficient, and environmentally conscious. Celebrating a decade of knowledge exchange and innovation, this edition of ICATS received an overwhelming response with 900 abstract submissions from countries like USA, Italy, Malaysia, Taiwan globally and from institutions like NIT, VIT, SRM, JAIN University, Chanakya University, SCSVMV University and other reputed institutions of which 270 high-quality papers have been shortlisted after a rigorous review.





These will be presented across multiple departments, showcasing interdisciplinary approaches to sustainable growth. This year's conference features four AI-driven plenary sessions, curated to explore the impact of artificial intelligence in sustainability, healthcare, smart systems and energy technologies. The titles are AI in Health Care and Sustainable Agriculture, Industry Automation: Bridging AI & Industrial Systems, The Era of AI and Cyber Security: Threats & Challenges conducted in different venues. We are honoured to host renowned expert speakers who will lead these sessions and spark meaningful discussions. With over 800 participants, including faculty members, researchers, and students across the country and abroad, ICATS'25 stands as a dynamic platform for sharing ideas, fostering collaboration, and inspiring solutions for a sustainable future. ICATS'25 was not just a conference, but a catalyst for impactful change. Furthermore, the conference proceedings of ICATS-2025 will be published by CRC Press, Taylor & Francis Group. After publication, the proceedings will be submitted to Scopus by CRC Press, Taylor & Francis Group.



## Plenary Talk on 'The Era of AI'

A plenary Talk on 'The Era of AI' was organised on 28.05.25. More than 200 students registered and participated from various institutions. During the session Mr.S.Ingersal, Scientist 'H', Former Group Director, Liquid Propulsion System Center, ISRO, Bangalore, Mr. S.A.Manikandan, Lead Product Support Engineer, Sprinklr Inc., Bangalore and Dr.S.S.Aravinth, Associate professor, Department of CSE, KL University, Andhra Pradesh shared their expertise.

The Era of Artificial Intelligence marks a transformative period in human history, where machines are capable of learning, reasoning, and making decisions. AI technologies have revolutionised various industries such as healthcare, education, finance, and transportation, making processes faster and more efficient. With its ability to analyze vast amounts of data and perform complex tasks, AI significantly enhances productivity and innovation. However, this rapid advancement also raises important ethical questions and concerns about job displacement. As we move forward, the focus must remain on the responsible and collaborative use of AI for the betterment of society.



## Plenary Talk on 'AI in Healthcare and Sustainable Agriculture'

The Plenary session on 'AI in Healthcare and Sustainable Agriculture' was held on 28.05.25 in Tata Hall as a part of International Conference on Adaptive Technologies for Sustainable Growth ICATS'25. The resource persons for the session were Dr. V. Gowri Sree, Professor, Department of EEE, Anna University, Chennai, and Mr. Jayaganesan Thiyagarajan, Business & Integration Architecture Manager, Accenture Technology Pvt. Ltd., Chennai.



Dr. A. Hepsi Rachel Chellarani, Principal, PCNR, presented a memento to Dr. V. Gowri Sree. She began her session by sharing her research journey, particularly in the field of cancer cell analysis and embedded systems for the identification of cancer cells. She elaborated on the use of Finite Element Analysis (FEA) in breast and prostate cancer research. Her presentation extended into food psychology, emphasizing the importance of nutrient-rich foods that aid in cancer prevention and blood purification. She also discussed the innovative applications of voltage and electric fields in agriculture for increasing crop yields. Supporting her insights, she presented experimental plots and informative charts, which helped the participants gain a better understanding. A special focus was given to mushroom cultivation, where she compared yield differences across various mushroom varieties. The session concluded with a productive Q&A segment, engaging participants in meaningful discussion. At 3:30 p.m. Mr. Jayaganesan Thiyagarajan began his deliberations. He commenced his session with an interactive discussion, particularly engaging biomedical engineering students, who actively participated throughout. He provided deep insights into the industrial applications of AI in medical coding, chatbot development, and various sectors of pharmaceutical and medical sciences. Finally, Dr. R. R. Krishnamoorthy, Director-Research, Paavai Educational Institutions presented a memento to the guest.

## Plenary Talk on 'Industry Automation: Bridging AI & Industrial System'

On 28.05.25, a Plenary Session titled 'Industry Automation: Bridging AI & Industrial Systems' was successfully organized by the collective efforts of the Departments of Aeronautical, Mechanical, Electrical & Electronics, Safety & Fire, Robotics & Automation, Mechatronics, Civil, and Electronics & Communication Engineering. The session brought together esteemed experts from academia, space research, and industrial innovation to discuss cutting-edge advancements in automation technologies and their integration with artificial intelligence to address future industrial challenges. Dr. Prof. Elisabetta Sieni, from the University of Insubria, Italy, delivered an insightful talk on 'Wireless Technology for Battery Research'. Her presentation highlighted the evolving role of wireless systems in energy storage solutions and their impact on autonomous industrial devices and electric mobility. Shri.

K. Hariharan, Scientist-SF, Vikram Sarabhai Space Centre (ISRO), Thiruvananthapuram, spoke on 'Sustainable and Resilient Automation Models for Space Missions'. He emphasized the significance of AI-driven automation in enhancing mission reliability and sustainability in harsh space environments. Dr. P.S. Prem Kumar, Head, Kumaraguru Centre for Industrial Research & Innovation, Coimbatore,



presented a compelling session on 'Exploring Automation Technologies in Defence and Industrial Research'. His address offered a strategic perspective on the convergence of AI, Robotics, and industrial automation in high-impact sectors like defence, manufacturing, and R&D. The plenary session served as an excellent knowledge-sharing platform, fostering interdisciplinary collaboration and innovation among participants, researchers, and industry professionals. The audience comprised faculty, scholars, and students from various engineering domains who enthusiastically engaged in Q&A sessions and discussions. The session was well-received and underscored the transformative potential of integrating artificial intelligence with industrial systems to build sustainable and future-ready technologies.

## Plenary Session on 'Cyber Security : Threats & Challenges'

In Cyber Security: Threats & Challenges, more than 200 students registered and participated from various institutions. Sankarraj Subramanian, Founder & CEO, Prompt Infotech, Coimbatore, Sai Satish, Founder & CEO of Indian Servers, and President of the Artificial Intelligence Medical & Engineers Research Society (AIMER) and R.Ravishankar, A versatile professional in RTB & CTB shared their insights to the attendees. The speakers elaborated on the most common Cyber Security Threats we face today as phishing, where attackers deceive users into giving up sensitive information. He also added that Malware continues to evolve, with ransomware being particularly dangerous as it locks users out of their own data. Denial-of-Service attacks can cripple websites and services by flooding them with traffic. Man-in-the-Middle attacks are especially dangerous on public Wi-Fi networks, intercepting private data. The most concerning threats are zero-day attacks, where hackers exploit unknown vulnerabilities before they can be fixed.





## Sports Day'25

Achieving Champion of Champions title for the ninth consecutive year in Anna University tournaments! The Sports Day celebration was held at Paavai Educational Institutions, presided over by the Chairman, Shri CA. N. V. Natarajan. The special guest for the event was Ms. Priyadharshini, a former international basketball player and Deputy Chief Ticket Inspector, Southern Railway. The welcome address was delivered by Mr. Ajmal Tasheen, III Cyber Security, PEC and Mr. Jagadeesh, PED presented the annual report.

The special address was delivered by Ms. Priyadharshini. She said, It is inspiring to see Paavai Educational Institutions emerging as a top college among all engineering colleges under Anna University by producing achievers in sports. A healthy mind resides in a healthy body, and sports provide that healthy body. Understanding this, your institution have created all necessary facilities to encourage students to participate in sports. In this regard, the cooperation extended by the Sports Department, its staff, and coaches has enabled Paavai students to achieve remarkable feats.

I am pleased to see that the institution has established sports facilities on par with international standards. This continued support has led to Paavai winning the Champion of Champions title for the ninth consecutive year in Anna University tournaments. As sports students, always maintain self-discipline, dedication, and unwavering focus on success. Respect both sports and academics equally, as both will uplift you when you put in your best efforts. Success and failure are secondary; your relentless efforts are what truly matter. As the famous basketball player Michael Jordan said, even if you fail repeatedly, rise again with self-confidence. Why is sports important for a student? Because it nurtures discipline, self-confidence, time management, a healthy lifestyle, and helps you gain respect in society.

Therefore, make it a habit to engage in yoga, meditation, or sports for at least half an hour daily. This will reduce stress and promote a healthier life. My best wishes to all of you to progress in life with confidence and consistent effort. Following her speech, Smt. Mangai Natarajan, Correspondent, Paavai Educational Institutions felicitated the gathering. Subsequently, the special guest distributed trophies and medals to the students and coaches who excelled in various sports competitions.





Earlier, the Chairman and Correspondent of Paavai Educational Institutions honored the special guest with a memento and a shawl. The event concluded with a vote of thanks delivered by Ms. Sindhuja, a III CSE, followed by a traditional folk dance performance.



## Memorandum of understanding(MoU)

The Department of Pharmaceutical Technology, Paavai Engineering College, signed a Memorandum of Understanding (MoU) with the Biological Treatment Lab, Division of Biotechnology, College of Environmental and Bioresource Sciences, Jeonbuk National University, South Korea. The ceremony was held at GD Hall Dr.K.K.Ramasamy, Director Admin, Dr.R.R.Krishnamoorthy, Director Research, PIF, Dr.M.Premkumar, Principal, PEC, Prof. S.Kamala Krishnamoorthy, Head, PIF along with faculty members. The welcome address was delivered by the Director-Centre for Research, who emphasized the importance of collaboration and the mutual benefits both institutions could achieve. A video clip was played, showcasing Dr. S. Kamalakannan's virtual conversation with the Prime Minister of India, Mr. Narendra Modi, regarding student exchange programs and startup establishment.

Shri CA N. V. Natarajan, Founder and Chairman, Paavai Educational Institutions delivered the presidential address, stating, 'The collaboration must result in meaningful contributions to the nation. He emphasized that both Paavai Engineering College and Jeonbuk National University should work together to achieve tangible action plans with regular follow-ups. He also mentioned that student and staff exchange programs would be planned in the near future. Dr. S. Kamalakannan underscored that 'Collaboration is not optional; it is essential'. He stated that the MoU signing should accelerate learning, enrich innovation, and open new avenues for research. He also emphasized the importance of joint publications in SCI journals to further strengthen the partnership. After the addresses, the Memorandum of Understanding was signed by Dr. S. Kamalakannan and Dr. R. Praveen Cumar, Head, Department of Pharmaceutical Technology and the MoU was exchanged in the presence of the Chairman.

The faculty members of Pharmaceutical Technology presented their project proposals. (Dr. R. Praveen Kumar, Dr. M. Masilamani Selvam, Dr. S. Parthasarathi, Dr. H. Harikrishnan, Mr. M. G. Karthih, and Ms. S. Ilakya.) A total of 14 project proposals were presented, and the speaker provided valuable suggestions for further strengthening the projects. The speaker encouraged the presenters to incorporate advanced technology in their projects. The Director-Centre for Research offered insights regarding funding opportunities and suggested utilizing the facilities at the Korean lab for sample analysis. He mentioned that any student or faculty member interested in collaboration could travel to Korea, with necessary arrangements being facilitated by the institution. The Principal encouraged the faculty members to integrate the suggestions provided and to maintain ongoing communication with Jeonbuk National University. The event concluded with the vote of thanks proposed by Dr. R. Praveen Kumar, Head, Department of Pharmaceutical Technology.



## Shakespeare's Day

In the presence of Shri CA.N.V. Natarajan, Chairman, Paavai Educational Institutions, and Smt. Mangai Natarajan, Correspondent, Dr. K.K. Ramasamy, Director Admin, Principals, Dean Academics, faculty members, and over 500 enthusiastic first-year students, the grand celebration of Shakespeare day was orchestrated by the Departments of English in Paavai Institutions at Pragathi hall on 10.05.25 at 11:00 a.m. The event commenced with soul-stirring prayer song and the rendition of the Tamil Thaivazhthu, setting a reverent tone for the occasion. The dignitaries on the dias graced the event with their presence and insightful addresses. The Correspondent keenly emphasized the significance of the English language, highlighting its acquisition through innovative AI tools. She also expressed her opinion about the usage of English language in many parts of the world. She also addressed the importance of literature in understanding a nation's history and cultural heritage.



The celebration featured a trilogy of captivating events like drama, reciting sonnets and monologue. A poignant enactment of Shakespeare's timeless classic play 'The Merchant of Venice', was performed to state values and virtues of mercy and true friendship. Students mesmerized the



audience with their heartfelt recitations of Shakespeare's sonnets, drama and monologue. Nearly 30 students enacted Shakespeare's characters on the stage with their enthusiastic and inquisitive performances. Besides, a drawing competition was also conducted, providing students an opportunity to showcase their artistic talents. The vibrant artwork on display was a testament to their creativity. The celebration concluded with Chairman expressing his heartfelt appreciation to the faculty members of Department of English for their tireless efforts and dedication. The event culminated with a vote of thanks and National Anthem, leaving a lasting impression on all attendees. The motto of the celebration was to showcase students' artistic talents, emphasis on English language and literature and the Cultural significance of Shakespeare's works. The celebration was a resounding success, fostering a deeper appreciation for Shakespeare's legacy and his importance contribution to the English language and literature.





## Academic Events

Department of BT, PEC organised a guest lecture on 'Digitizing Diagnosis: Coding in the Digital Era' on 02.05.25. Mrs. Kamala Krishnamoorthy, Head, PIF delivered the presidential address, emphasizing the importance of staying abreast of developments in the digital healthcare sector. Mr. Yuvarajan Balakrishnan, Director, Amra Healthcare Training Centre, Hyderabad, the guest speaker shared his expertise and innovative approaches in the field of medical coding.

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Department of Biotechnology  
Organize a  
Guest Lecture on  
**"Digitizing Diagnosis: Coding in the Digital Era"**  
on Friday, 02<sup>nd</sup> May 2025, 09.30 a.m. to 01.00 p.m.  
at Cute Hall












**CHIEF GUEST**  
Mr. YUVARAJAN BALAKRISHNAN, BPT, CPC, MBA  
Global Training & Operation Head,  
Amra Health Care Training Centre,  
Hyderabad.

Department of EEE, PEC successfully organised a guest lecture on the topic 'Solar Renewable Energy and Its Opportunities' on 03.05.25. Mr. N. Arunmozhi, Project Manager, HCT Energy, Dubai provided a comprehensive overview of solar power generation, emerging technologies, and career prospects in the solar energy sector. He delivered a highly engaging and informative presentation, highlighting real-world projects, trends in solar infrastructure, and the increasing demand for skilled professionals in the renewable energy sector.

Tap to return to meeting 35:54

← **In the meeting (73)** 🔍 Mute all

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	Sasithar S		
	satheeshkumar rajendran		

Department of MCTS, in association with the PMEA, PEC organised a one-day workshop on 'Emerging Trends in Industrial Automation 4.0' on 07.05.25. Mr. S. Aravinth, Senior Project Engineer at Skimitar Hindusthan Pvt. Ltd., Salem, served as the guest speaker for the event. The resource person elaborated on the core technologies driving Industry 4.0, such as IoT, AI, smart manufacturing, and cyber-physical systems, along with emerging trends and their real-world applications.

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Department of Mechatronics Engineering  
in association with  
Paavai Mechatronics Engineers Association  
Organizes  
One Day Workshop on  
**"Emerging Trends in Industrial Automation 4.0"**  
on Wednesday, 07.00 pm to 08.30 pm



**Resource Person**  
**Mr. S. Aravinth**  
Senior Project Engineer,  
Skimitar Hindusthan Private Limited,  
Salem.

IIC, PEC organised a workshop on 'Prototype / Process Design and Development' on 07.05.25. The resource person for the session was Dr. K. Vanchinathan, IIC Convener and Professor, VCET, Erode. Dr. K. Selvi, Dean-Academics, PEC, delivered the Presidential Address on the occasion. The guest speaker shared valuable insights on Prototype and Process Design, illustrating the concepts with several examples. He elaborated on the differences between Design Thinking and Innovation Design, and highlighted various government and private schemes.

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Department of Biomedical Engineering  
in association with  
Paavai Biomedical Engineers Association  
Organizes  
One Day Workshop on  
**"PROTOTYPE / PROCESS DESIGN AND DEVELOPMENT"**  
on 07<sup>th</sup> May 2025



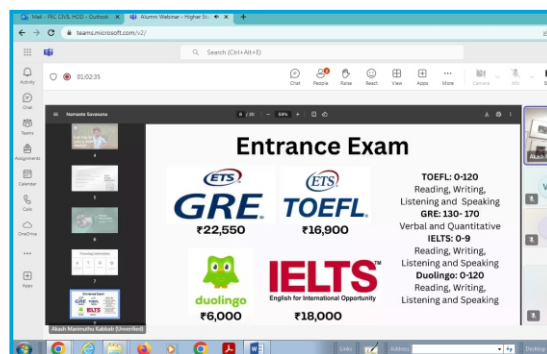
**Resource Person**  
**Dr. K. Vanchinathan**  
IIC Convener and Professor,  
VCET, Erode.

GPS Map Camera

Namakkal, Tamil Nadu, India  
95X6+MM3, Tamil Nadu 637018, India  
Lat 11.399336°  
Long 78.160947°



Department of Civil Engineering, in association with the PCEA, PEC organised a one-day alumni webinar titled 'Higher Studies Abroad - Choosing the Right Path' on 13.05.25. Alumni speaker, Mr. Akash Marimuthu Kannan, pursuing M.S., California State University, Northridge, Los Angeles. He provided valuable insights for pursuing higher studies abroad, covering key aspects such as preparing for entrance exams, selecting the right universities, securing scholarships, obtaining education loans, and understanding life abroad. He also discussed diverse global career opportunities and offered practical advice to help students make well-informed decisions about their future.



## Social Sensitivity

On 13.05.25, a team of 21 dedicated volunteers from the National Service Scheme (NSS), Paavai Engineering College rendered their valuable service in counting the Hundial collection at Atthanoor Amman Temple, located in Salem.



## The Rise of Short-Form Research in Nano-Publishing

A nanopublication is a small knowledge graph snippet with metadata that is treated as an independent (scientific) publication. This information in a nanopublication can be about anything, for example a relation between a gene and a disease or an opinion. Nanopublications are expressed in a knowledge graph format that is formal and machine-interpretable. With nanopublications, it is possible to disseminate individual data as independent publications with or without an accompanying research article. Furthermore, because nanopublications can be attributed and cited, they provide incentives for researchers to make their data available in standard formats that drive data accessibility and interoperability. Nanopublications have the following general structure: Furthermore, because nanopublications can be attributed and cited, they provide incentives for researchers to make their data available in standard formats that drive data accessibility and interoperability. Nanopublications have the following general structure:



A nanopublication has three basic elements:

1. Assertion – a single, atomic piece of scientific information. e.g., 'Gene X is associated with disease Y'
2. Provenance – information about how the assertion was derived. e.g., author, method, dataset
3. Publication Info – metadata about the nanopublication itself. e.g., when and where it was published

These are structured using Semantic Web standards such as RDF (Resource Description Framework) and Linked Data, allowing interoperability and automated reasoning.

#### Reasons for the Rise of Nano-Publishing

##### Rapid Dissemination of Research:

Short-form articles allow researchers to quickly share their findings with a wider audience, enabling faster collaboration and innovation.

##### Digital Platforms and Open Access:

Online platforms like Nano Express and Discover Nano facilitate the publication and accessibility of research, making it easier for researchers to share their work.

##### Focus on Practical Applications:

The emphasis on real-world applications of nanotechnology, such as energy storage, medicine, and materials science, encourages researchers to publish shorter, more focused articles that demonstrate the practical impact of their work.

##### Improved Review and Publication Processes:

Journals and platforms dedicated to nano-publishing are streamlining the review and publication processes, making it easier for researchers to get their work published quickly.

##### Knowledge Integration:

Nanopublications from different domains can be linked together to build rich scientific knowledge graphs (e.g., linking gene-disease-drug relationships)

#### Example of a Nanopublication

Instead of publishing 'Gene X is linked to breast cancer' as a sentence in a paper, a nanopublication expresses it as:

Assertion: <GeneX> <isLinkedTo> <BreastCancer>

Provenance: Derived from study Z, by author A, using method M.

Publication Info: Created on 2025-07-01, stored in database D.

#### Tools and Platforms

Nanobench – desktop tool for creating and publishing nanopublications

LOD (Linked Open Data) cloud – for semantic integration

Open Research Knowledge Graph (ORKG) – combines nanopublications with structured scholarly knowledge.

Sources: <https://nanopub.net/>

<https://researchbrains.com/the-rise-of-short-form-research-in-nano-publishing/>

## Research Fund

Name of the Faculty with designation	Title of the Proposal	Name of the Portal	DOI Number
M.G.Karthih AP-Pharma, PEC	Innovative Herbal Topical Antidote Gel Formulation: a Natural Defense Treatment Against Poisonous Bites	Tamil Nadu State Council for Science and Technology Student Project Scheme	Rs. 7,500/-

## Faculty Journal Publications and Patents

Name of the Faculty with designation	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
Dr.H.Harikrishnan ASP-Pharma, PEC	Lysinibacillus Fusiformis Strain NBRC 15717 16S Ribosomal RNA Gene, Partial Sequence	NCBI GenBank, USA	Accession No: GenBank: PV437170 <a href="http://ncbi.nlm.nih.gov/nuccore/PV437170">http://ncbi.nlm.nih.gov/nuccore/PV437170</a> . 1/
R.Loganathan AP - CYS, PEC S.Ramya AP - CYS, PEC R.K.Poongodi AP - CYS, PEC V.Sinthuja AP - CYS, PEC	Patent	System and Method for Secure Identity Verification Using Blockchain Technology	202541035567 A
G.Shanmugapriya AP-English, PASCW	Creative Flight (International) Research from Text to Tech: Bridging Digital Tools and Literary Insights	Solitude and the Sciences: Prophecy, Historiographic Metafiction and Magic Realism in Garcia Marquez's Exploration of Macondo	ISSN-2582-6158
M.Banupriya AP-English, PASCW	Creative Flight (International) Research from Text to Tech: Bridging Digital Tools and Literary Insights	Feasting on Love: The Sensual and Emotional Power of Love in 'Like Water for Chocolate'	ISSN-2582-6158
Dr.G.Balaji Prof-EEE, PEC Dr.A.Rathinam Prof-EEE, PEC R.Satheeshkumar AP-EEE, PEC G.Uma maheswari AP-EEE, PEC G.Deivamani AP-EEE, PEC	Patent	PID- Based Temperture Controller for Bitumen Plant	202541037851A
M. Aruna, ASP - Pharmaceuticals, PCPR S Harshini, ASP - Pharmaceuticals, PCPR	Journal of Neonatal Surgery	Sustained Release Oral Drug Delivery System	ISSN(Online): 2226-0439 Vol. 14, Issue 11s (2025)
Dr.S.Vijayakumar Prof.-ECE, PEC	Springer Analog IC and Signal Processing	Optimized Elliptic Curve Cryptography Architecture for Improved V2X Communication	Nalog Integrated Circuits and Signal Processing (2025) 123:52 <a href="https://doi.org/10.1007/s10470-025-02378-0">https://doi.org/10.1007/s10470-025-02378-0</a>
Dr.T.Loganayagi Prof.- ECE, PEC	International Journal of Soft Computing and Artificial Intelligence	Image Fusion Machine Learning Model for Better Analysis of Medical Research	ISSN No;2321-404X Volume 13,Issue-1

Name of the Faculty with designation	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
Dr. R. Praveen Kumar, Prof. – Pharma, PEC	Journal of Neonatal Surgery	Insilico Synthesis and Invitro Evaluation of Novel Thiadiazoles as Inhibitors Caspase 3 for Potential of Anticancer	ISSN (online): 2226-0439, Vol 14, Issue 13 (2025)
Dr. M. Masilamani Selvam Prof.-Pharma, PEC Dr. H. Harikrishnan ASP-Pharma, PEC Mr. M.G.Karthih AP-Pharma, PEC	PriMera Scientific Surgical Research and Practice	Current Cancer Treatments and the Challenges in Achieving a Cure	Volume 5 Issue 5 May 2025 ISSN: 2836-0028
Dr. M. Masilamani Selvam Professor-Pharma, PEC Dr. H. Harikrishnan ASP-Pharma, PEC Mr. M.G.Karthih AP-Pharma, PEC	PriMera Scientific Surgical Research and Practice	Comparing Traditional and Modern Medicine for Better Understanding	Volume 5 Issue 5 May 2025 ISSN: 2836-0028
Dr.T.Loganayagi Prof.- ECE, PEC	Journal of Biotechnology Scopus(SCIE)	Hybrid Deep Maxout-VGG -16 Model for Brain Tumour Detection and Classification using MRI Image	<a href="https://doi.org/10.1016/j.jbiotec.2025.05.009">https://doi.org/10.1016/j.jbiotec.2025.05.009</a>
Dr.D.Boopathi ASP-EEE, PEC	Optimum Solution for System Stability of Interconnected Power Grid Using Hybrid Genetic Firefly Algorithm Optimized PID Controller	Optimizing Solutions for Real-Life Problems	<a href="https://doi.org/10.1007/978-981-96-3216-9">https://doi.org/10.1007/978-981-96-3216-9</a>
Mrs.L.Sujitha AP-ECE, PEC	International Journal of Scientific Research and Engineering Development	Privacy Preserving Public Complaint Platform using Certificateless Cryptography	ISSN:2581-7175 Vol 8 - Issue 3
Dr.A.P.Sivasubramaniam Prof.-Mech, PEC	International Journal of Modernization in Engg Technology and Science (IRJMETS)	Fused Deposition Modelling of Carbon Fiber-Polyethylene Teraphthalate Glycol and Material Characterization Analysis	e-ISSN: 2582-5208 Volume:07/Issue:05/ May-2025
Dr.A.P.Sivasubramaniam Prof.-Mech, PEC T.Sathees AP-Mech, PEC	International Journal of Modernization in Engg Technology and Science (IRJMETS)	Fused Deposition Modelling of Carbon Fiber-Polyethylene Teraphthalate Glycol and Material Characterization Analysis	e-ISSN: 2582-5208 Volume:07/Issue:05/ May-2025
Ms Muthu Mani AP- BT, PEC	Innovative Biotechnological Structural Approaches for Sustainable Development and Social Impact	St .Michael College of Engg.& Tech. Sivaganagai 22-23 may 2025	Best oral presentation award
K.Sangeetha AP-CSE,PEC	Charulatha Publications	Operating Systems	ISBN-13: 978-93-6260-306-7



Name of the Faculty with designation	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
N.M.K.Ramalingam Sakthivelan AP-CSE, PEC	International Journal for Research Trends Innovation	Intelligent Maternal and Ne-onatal Health: AI-Powered Innovations for Early Detec-tion and Personalized Care	Volume:10 Issue:4 ISSN:2456-3315
N.M.K.Ramalingam Sakthivelan AP-CSE, PEC	International Journal for Research Trends Innovation	IoT-Based Smart Irrigation and Soil Nutrient Management System Based Upon Crops	Volume:10 Issue:4 ISSN:2456-3315
Dr.P.Thiyagarajan ASP-CSE,PEC	Journal of Neonatal Surgery	Enhanced Ransomware Threat Detection Based on AI-Powered Deep Feature Engineering using Intellectual Cyber Swarm Intelligence Technique with Hyper Capsule Deep Neural Network	Volume:14 Issue:26 ISSN:2226-0439

## Book Publications

Name of the Faculty with designation	Title of the Book	Name of the Publications	Reference No.
Dr.H.Harikrishnan ASP-Pharma, PEC	Analytical Methods for Drug Development	Thinkplus Pharma Publications	ISBN-13: 9788197973185
G.Shanmugapriya AP-English, PASCW	Dear Daddy (Poem), Love Diaries The Women who raised me, The Heart that raised me	Blue Star Publications	(Volume-2) PageNo:211 ISBN-978-81-987818-1-9

## Student's Achievements and Awards

Name of the Students with Dept	Name of the Programme	Venue and Date	Name of the Event	Position/Place
S.Krishnan R.J.Hari haresh II-BT, PEC	Oral Presentation	Innovative Biotechnological Structural Approaches for sustainable Development and Social Impact	St .Michael College of Engg.& Tech. Sivaganagai 22-23.05.25	I
M.Dhanush K.Hemavathi P.Dharanish III-Civil, PEC	Oral Presentation	Participated in CSIR-SERC (Structural Engineering Research Centre) Chennai Golden Jubilee year quiz competition CSIR-SERC (Structural Engineering Research Centre), Chennai	CSIR-SERC (Structural Engineering Research Centre), Chennai 14.05.25	

## Student Journal Publications and Patents

Name of the Student with Dept	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
S.Parthasarathy III - CYS, PEC	Patent	System and Method for Secure Identity Verification Using Blockchain Technology	202541035567 A
P.G.Priyadharshini A.Ragavi V.Soundariyalakshmi IV-CSE, PEC	International Journal of Research Publication and Reviews	Gestation Monitoring and Health Monitoring of Fetus using Embedded Controllers, Deep Learning Concepts	ISSN:2582-7421 Volume 6, Issue 4.
S.Pavithra R.Poornima K.Thanujaa IV-CSE, PEC	International Journal of Creative Research Thoughts	A Personalized Career Guidance Tool for Students	ISSN:2320-2882 Volume -13,issue -4
S.Shreekumar M.Sivashanmugam I.Thamaraiselvan IV-CSE, PEC	International Journal of Research Publication and Reviews	Get real: Finding Counterfeit Products using Blockchain Technology	ISSN:2582-7421 Volume 6, Issue 4
M.Prasanna S.Praveen M.Vijay Anand IV-CSE, PEC	International Research Journal of Modernization in Engineering Technology and Science	IoT-Based Automation for Sustainable and Equitable Rural Water Supply Management	ISSN-2582-5208; Volume -7, Issue -4
V.Vinoth D.Vishnu Selvan K.Rohith IV-CSE, PEC	International Journal of Creative Research Thoughts	AI-Based Lung Disease Identification System using Cnn and Image Processing	ISSN:2320-2882 Volume -13,issue -4
N.Sampath Kumar K.Sree Aravind V.Vinothkumar IV-CSE, PEC	International Journal of Creative Research Thoughts	Secure Online Registration with Video Consent & AI Verification	ISSN:2320-2882 Volume -13,issue -4
J.Naveen A.Silambarasan M.Vimal IV-CSE, PEC	International Journal of Creative Research Thoughts	Temperature Regulation System for Poultry Farms using Iot & Automation	ISSN:2320-2882 Volume -13,issue -4
G.Tamizhanban A.Nandhakumar Gorla Vamshidhar Reddy IV-CSE, PEC	International Journal of Research Publication and Reviews	AI-Driven Welfare Scheme Assistance and Management System	ISSN:2582-7421 Volume 5, Issue 12.
S.Nithesh R.D.Pragathesh T.Sriram IV-CSE, PEC	International Journal of Research and Publication and reviews	Hospital and Patient Information Management System	ISSN-2582-7421` Volume -6,Issue -4
P.Pradeep B.Prem S.Vishal IV-CSE, PEC	International Journal for Research Trends Innovation	Intelligent Maternal and Neonatal Health: AI-Powered Innovations for Early Detection and Personalized Care	ISSN-2456-3315 Volume -10,Issue -4

Name of the Student with Dept	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
P.Naveen Adithiya M.Pradeepkumar I.Shri Hari IV-CSE, PEC	International Journal for Research Trends Innovation	Adulteration Analysis and Monitoring System Towards Health Hazards	ISSN-2456-3315 Volume -10, Issue -4
M.Siva K.Thamizharasan R.Vasanthavelan IV-CSE, PEC	International Journal of Creative Research Thoughts	AI-Powered Petition Analysis and Grievance Management System	ISSN-2320-2882 Volume-13, Issue -4
S.Saranraj G.Saran Kumar S.Santhoshkumar IV-CSE, PEC	International Journal of Research Publication and Reviews	Smart Fishing with AI: Optimizing Catch Efficiency and Sustainability	ISSN:2582-7421 Volume 6, Issue 4
S.Saranraj S.Santhosh N.Vasanth IV-CSE, PEC	International Journal of Research Publication and Reviews	AI-Powered Handwritten Document and Diagram Digitization System using Computer Vision and OCR	ISSN:2582-7421 Volume 5, Issue 12
S.Rosini M.Pooja S.Soniya IV-CSE, PEC	International Research Journal of Engineering and Technology	Intelligent Traffic Management for Zero Violations and Enhance the Road Safety	ISSN-2395-0056 Volume-12, Issue -4
R.Nisha V.Sangeetha N.Tamilselvi IV-CSE, PEC	International Journal of Research Publication and Reviews	Centralised Resource Administration Dashboard	ISSN:2582-7421 Volume 6, Issue 4
G.Nithish V.Prasath Thota Manoj Kumar IV-CSE, PEC	International Journal of Creative Research Thoughts	Life finder – A Real Time object Detection System for Landslide	ISSN-2320-2882 Volume-13, Issue -4
S.Powthra S.Trisha M.Varshini IV-CSE, PEC	International Research Journal of Modernization in Engineering Technology and Science	AI-Driven Multilingual Voice Assistance for Real-Time Heritage Site Navigation	ISSN-2582-5208; Volume -7 , Issue -4
S.Santhiya R.Saranya S.Pradeepa IV-CSE, PEC	International Research Journal of Modernization in Engineering Technology and Science	RFID and QR Code-Based Smart Pharmacy System for Automated Drug Dispensing	ISSN-2582-5208; Volume -7 , Issue -4
G.Sakthivel R.Sivachandiran E.Suriyabhuvanesh IV-CSE, PEC	International Journal of Research Publication and Reviews	AI-Based Smart Traffic Signal Control System	ISSN:2582-7421 Volume 6, Issue 4
K.Stalin M.Surya Thupakula Ganesh IV-CSE, PEC	International Journal of Research Publication and Reviews	Smart and Secure Public Distribution System Transportation	ISSN:2582-7421 Volume 5, Issue 12

Name of the Student with Dept	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
E.Udhayarasu IV-CSE, PEC	International Journal for Research Trends Innovation	IoT-Based Smart Irrigation and Soil Nutrient Management System Based Upon Crops	ISSN-2456-3315 Volume -10, Issue -4
S.Harish Kumar M.Kavin Raj K.Nithish Kumar P.Rahul Prasath J.P.Kavi Bharathi S.R.Maheswar Research scholars, Pharmaceutics, PCPR	Journal of Neonatal Surgery	Sustained Release Oral Drug Delivery System	ISSN(Online): 2226-0439 Vol. 14, Issue 11s (2025)
Abikoil IV-Pharma, PEC	Lysinibacillus Fusiformis Strain NBRC 15717 16S Ribosomal RNA Gene, Partial Sequence	NCBI GenBank, USA	Accession No: GenBank: PV437170 <a href="http://ncbi.nlm.nih.gov/nuccore/PV437170">http://ncbi.nlm.nih.gov/nuccore/PV437170</a> . 1/

## Wall of Fame



**B.NITHYA**  
**AP - ENGLISH, PASCW**  
Basic Course for Ranger Leaders  
State Training Centre, Stanley Park, Coonoor  
17.05.25 - 23.05.25



**T.YUVANESH**  
**II - EEE, PEC**  
State Championship / Silver & Bronze in Boxing  
VIT, Chennai & Boxing Federation of India



**M.DHANUSH**  
**III - Civil, PEC**  
CSIR-SERC - Golden Jubilee Year  
Quiz Competition Chennai - 14.05.25



**K.HEMAVATHI**  
**III - Civil, PEC**  
CSIR-SERC - Golden Jubilee Year  
Quiz Competition Chennai - 14.05.25



**P.DHARANISH**  
**III - Civil, PEC**  
CSIR-SERC - Golden Jubilee Year  
Quiz Competition Chennai - 14.05.25



# Alumni Testimonial

## PAAVAI ENGINEERING COLLEGE



**N. ARUNMOZHI**  
B.E - EEE, 2017 - 2021  
Quality Engineer GAO Tek  
Bangalore

'Paavai Engineering College holds a very special place in my heart. The journey I had here was not just about academic learning, but also about personal and professional growth. The dedicated faculty members, well-structured curriculum, and the emphasis on discipline and values helped shape me into a confident individual ready to face the real world. What sets Paavai apart is its commitment to holistic development. Be it technical education, soft skills training, or extracurricular activities - every aspect was designed to bring out the best in us. The environment was always supportive, encouraging us to dream big and work hard to achieve those dreams. Today, as I look back on my college days, I feel immense gratitude towards the institution, the mentors, and the friends I made along the way. Paavai didn't just give me a degree; it gave me a direction in life'.

## PAAVAI COLLEGE OF ENGINEERING



**P. VASU**  
B.E - EEE, 2018 - 2022  
Server Admin Presition Groups Pvt Ltd  
Bangalore

My journey at Paavai College of Engineering, as a student in the Electrical and Electronics Engineering Department, was a transformative experience that extended far beyond academics. The guidance and encouragement from our dedicated faculty empowered me to identify and cultivate my strengths, fostering both personal and professional growth. This nurturing environment instilled in me resilience, a strong sense of purpose, and the confidence to tackle challenges head-on. I am deeply grateful to the mentors and faculty members who played a pivotal role in shaping my journey, and I consider it a privilege to have been part of an institution that laid a solid foundation for my future.

## PAAVAI POLYTECHNIC COLLEGE



**R. VISHNU**  
DEEE, 2022 - 2024  
Fresenius Medical Care

As I take a moment to look back, I am filled with pride and gratitude for the journey that brought me here. Paavai College was not just an educational institution. It was a place that nurtured my dreams and shaped my future. It taught me more than the fundamentals of engineering; it instilled in my values like perseverance, integrity, and the importance of collaboration. The support and guidance of my teachers played a crucial role in my development, and I remain deeply thankful to the entire Paavai group of institutions for laying a strong foundation in my life. I completed my Diploma in Electrical Electronics Engineering, and today, I have the privilege of working in Fresenius Medical Care Pvt Ltd, India.



**S.YAMUNADEVI**

B.Sc - CS, 2021 - 2024

Bank of Montreal, TCS  
Chennai

I am Yamunadevi S , Alumna of Pava Arts and Science College for Women, Department of Computer Science, Batch-2021-2024. Currently, I am working as Reporter in the Bank of Montreal (BMO) - Tata Consultancy Services (TCS) Chennai. During my time at our college opportunity to explore my passion. The faculty members were incredibly supportive, providing guidance and mentorship that helped me grow both academically and personally. The training and support I received from the faculty and the college's placement team were instrumental in helping me secure the job. My experience at the company has been rewarding, and I feel well-prepared to take on new challenges. The management was very supportive, ensuring that we had access to the resources and opportunities we needed to succeed. I extend my heartfelt gratitude to the college administration and staff for their role in my personal and academic growth. The experiences and knowledge gained during my time here will remain invaluable.

## Humanity



**G.RAMESH**  
II - CSE, PEC

# English Grove

## REDUNDANCY TO BE AVOIDED

Redundancy means information that is expressed more than once. 'Redundancy' means superfluous / unnecessary repetition or overlapping of words. A good speech or a good piece of writing is free from redundancy. These unnecessary words do not serve any purpose; they do not make speeches and writings better. They should be eliminated in everyday speech and writing. Therefore, one should avoid redundancy.

### Examples of redundancy:

free gift  
advance planning  
blend together  
eradicate completely  
final conclusion  
new invention  
future plan  
local residents  
true facts  
ultimate goal

### A few more examples:

My aunt is a **widow** woman.  
**Each and every one** has attended the meeting.  
We should learn from the **past** experience.  
'Unity is strength' is an **old** proverb.  
He was awake till **12** midnight.  
The evidence is **sufficient** enough to take action.  
I don't accept any **free** gifts from my friends.  
Here you can buy all **foreign** imported mobile phones.  
It is **absolutely** essential for all students to complete their projects by 7<sup>th</sup> September 2018.  
Were they given **advance** warning?  
She got a big **affirmative** yes to the proposal.  
Prepare a **brief** summary of the event and send it to me by email.  
If you have any **alternative** choice, please let me know.  
I request you all to **cooperate** together and complete the work in time.

In the sentences above, the underlined words / phrases are quite unnecessary and so they should be omitted in order to be crisp and meaningful.



