



**PAAVAI**

**EDUCATIONAL INSTITUTIONS**

Think Education... Think Paavai.

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

# PAAVAI VOICE

DECEMBER - 2024

A MONTHLY BULLETIN

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## Chairman's message

Dear parents and students,

Greetings from your Chairman,

The Paavai Innovation Forum, a remarkable addition to Paavai's legacy, was inaugurated in December to nurture creative minds, industry experts, and leaders, providing a platform to share ideas and foster innovation. The forum serves as a space for discussing cutting-edge trends, technologies, and solutions to address both current and future challenges. Participants engage in internships, workshops, specialized courses, and interactive sessions that spark collaboration and drive impactful initiatives. By encouraging out-of-the-box thinking, the forum enables participants to transform ideas into actionable strategies, promoting a culture of innovation across industries and communities.

Another proud milestone was the inauguration of Dheeram Kulir Arangam, a state-of-the-art auditorium at PASCW. This modern facility is designed to enhance the learning and cultural experience for students and faculty alike. The inaugural ceremony, marked by a traditional pooja, introduced a convention center equipped with advanced amenities, built to host lectures, events, and performances, thereby fostering creativity and artistic expression among students.

The Tamil Literature Quiz was hosted to deepen students' understanding of Tamil culture and history by exploring key literary works and distinguished authors. Such events encourage critical thinking, enhance knowledge retention, and develop a deeper appreciation for the richness of Tamil poetry and traditions. Additionally, they sharpen memory and recall skills, particularly in recognizing prominent poets and their invaluable contributions to literature. This initiative fosters a stronger connection to Tamil heritage, enriching students' cultural identity.

We also celebrated the birth anniversary of the legendary mathematician Srinivasa Ramanujan, whose extraordinary contributions to mathematical analysis, number theory, infinite series, and continued fractions remain unparalleled. Despite having limited formal training in mathematics, his self-taught genius propelled him to become one of the most influential mathematicians in history. His remarkable legacy continues to inspire mathematicians and students worldwide, serving as a testament to the power of perseverance and intellectual curiosity.

Dear students, this is the time to explore your passions and step out of your comfort zone. Embrace new challenges with confidence, and do not hesitate to seek help when needed—whether for academic support or personal growth. While discipline is essential, allow yourself the space to learn from mistakes and setbacks. Stay organized by setting clear goals and tracking your progress, always keeping your future aspirations in mind. Remember, your college journey is not just about grades but about building a well-rounded, fulfilling life.

Warm regards,

Chairman

# DHEERAM KULIR ARANGAM INAUGURATION OF AUDITORIUM



# PAAVAI INNOVATION FORUM



Paavai innovation Forum stands as a premier hub for fostering innovation, creativity, and entrepreneurship. It plays a crucial role in empowering students, faculty, and staff to bring about positive transformation and societal impact through a culture of research and excellence. It also encourages an ecosystem where ideas can be incubated, experimented upon, and implemented

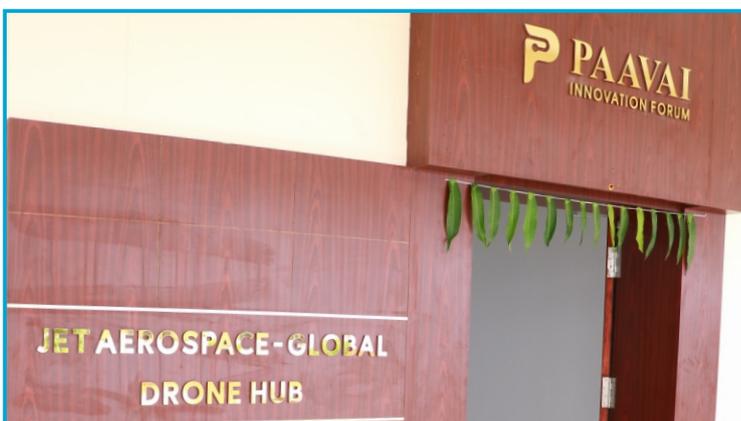
effectively. By forging partnerships across industry, academia, and government sectors, PIF drives forward economic growth and technological advancements, aiming to elevate the standards of skill development. Its initiatives aim to foster innovation in diverse fields, driving positive impact and transformation. Here's an overview of its key components.

## Juniper Networks Centre - PUPA Ventures

The Juniper Networks Centre of Excellence at PIF provides students with global certifications in networking. With Juniper Networks being a prominent player in AI-based networking, cloud, and security solutions, the center offers a range of courses from beginner to advanced levels in areas like Junos, Cybersecurity (JNCIP-SEC), and large-scale networking (JNCIS-SP). This partnership equips students with in-demand skills in network switches, routers, and firewall design.



## Jet Aerospace – Global Drone Hub



Jet Aerospace Global Drone Hub focuses on the rapidly growing drone industry, offering opportunities for research and skill development. PEC in collaboration with Jet Aerospace Aviation Research Centre provides hands-on training and advanced research in drone technology. It offers certifications along with entrepreneurial activities, providing

mentorship and funding opportunities to foster drone-based solutions. The centre also conducts workshops, hackathons, and outreach programs to promote awareness of drone technologies.

## Prashan Medical Technologies



Prashan Medical Technologies, a leading medical equipment supplier and service provider, specializes in critical care, cardiopulmonary diagnostics, and patient monitoring. It also offers hands-on training for biomedical engineering students, enhancing employability with practical skills. Its services include training on large-scale medical equipment, both online and offline, and career guidance

solutions for the medical industry. Their slogan, 'Let's learn together,' reflects their commitment to continuous improvement and innovation in the sector.

## AMS - IIOT Centre

AMS Industrial Internet of Things (IIoT) Centre is established in association with AMS, Bangalore. The IIoT Centre has a state-of-the-art facility designed for students to explore, develop, and implement technologies that combine industrial systems with connected devices, networks, and data analytics. As industries increasingly adopt digital transformation, IIoT plays a pivotal role in enhancing efficiency, productivity, and sustainability across various sectors such as manufacturing, energy, logistics, and agriculture. At its core, the IIoT Centre focuses on integrating sensors, embedded systems, and advanced communication technologies into industrial operations. This allows real-time monitoring, control, and optimization of critical assets and processes. The centre is equipped with a wide range of equipment, including machines that simulate real-world industrial environments, IoT devices for data collection and edge computing units. The centre also provides a collaborative environment for cross-disciplinary research, bringing together experts in fields like computer science, data analytics, artificial intelligence, etc., This multidisciplinary approach fosters innovation in creating solutions that address complex challenges faced by modern industries. Furthermore, the IIoT Centre serves as a training ground for students to enhance their skills in IIoT technologies, ensuring a well-equipped workforce to meet the demands of the growing industry.



## ABB – AMS Robotic Technology Hub

The ABB serves as a vital platform for students to gain hands-on experience and expertise in advanced robotic technologies. This state-of-the-art facility provides opportunities to explore real-world applications of industrial robotics, fostering innovation and technical skills among students. By engaging with the ABB IRB 1200 Robot, known for its precision and versatility, students can develop competencies in programming, automation, and system integration, which are highly valued in modern



industries. Additionally, the center bridges the gap between academic learning and industrial practices, preparing students for careers in fields such as manufacturing, automation, and robotics. This initiative not only increases employability but also cultivates a research-oriented mindset, enabling students to contribute effectively to technological advancements and

industrial growth for careers in fields such as manufacturing, automation, and robotics.

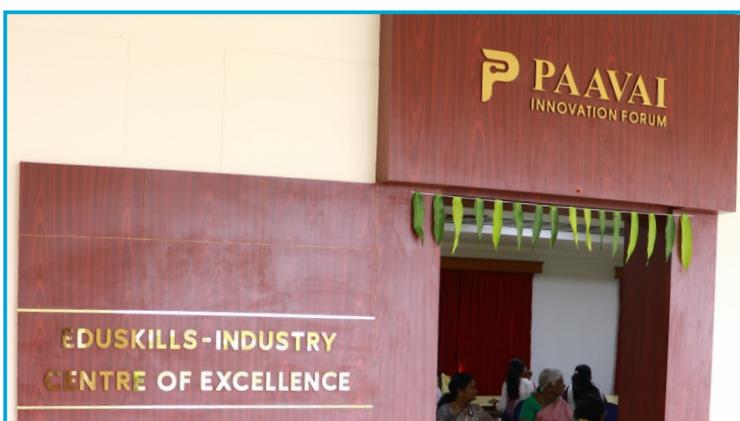
### Microsoft Innovation Centre

MS Learn Account for the AI Engineer includes self-learning modules with the AI-102 certification. Students are given an orientation on career opportunities in AI. There are six key learning modules that students must complete before attempting the certification. ByteXL's trainer conducts weekly 2-hour guidance sessions for each module over six weeks. After each session, students are given weekly self-learning milestones related to the sub-modules. They complete these milestones using their MS Learn accounts and video recordings available on the byteXL app. At the end

of six weeks, students can register and attempt the AI-102 certification. Microsoft awards a certificate for completing the learning modules. This certificate is valuable for students during their placement. The program is designed to equip students with essential AI skills and prepare them for career opportunities.



### EduSkills – Industry Centre of Excellence



EduSkills Academy's partnerships with renowned companies ensure that the internship programs reflect the latest trends and challenges in the industry. These collaborations help students stay ahead of the curve by exposing them to the tools, technologies, and best practices used by leading organizations across the globe. Moreover, the academy's focus on

industry partnerships and skill development ensures that students gain a competitive edge in the job market, giving them the confidence and competence to succeed in their chosen fields.

The Paavai Innovation Forum (PIF) stands as a beacon for innovation, providing a platform for students, faculty, and staff to develop their skills, explore new technologies, and engage with industry. PIF ensures that students gain the technical expertise, entrepreneurial mindset, and hands-on experience needed to thrive in today's rapidly evolving world. Through these collaborations, the forum plays a pivotal role in shaping the future of education and innovation, ultimately contributing to the advancement of technology, industry, and society at large.

## Paavai Innovation Forum - Centre of Excellences (CoEs)

MICROSOFT AI	
ABB - AMS ROBOTIC TECHNOLOGY HUB	
EDUSKILLS	
AWS ACADEMY	
PALOALTO NETWORKS	
FORTINET	
SS&C BLUE PRISM	
ALTERYX SPARKED	
MICROCHIP TECHNOLOGY	
CELONIS	
UI PATH ACADEMIC ALLIANCE	

## Paavai Innovation Forum - Centre of Excellences (CoEs)

ZSCALER ACADEMY	
BENTLEY EDUCATION	
GOOGLE FOR DEVELOPERS	
MONGODB	
VMWARE IT ACADEMY	
ANSYS	
MIDAS ACADEMY	
ISRO-BALLOON SATELLITE LAUNCHING STATION	
AMS - IIOT CENTRE	
JET AEROSPACE - GLOBAL DRONE HUB	
PUPA VENTURES	
JUNIPER NETWORKS CENTRE	
PRASHAN MEDICAL TECHNOLOGIES	
TVS HARITA TECHSERV	

## TAMIL LITERATURE QUIZ'24

A Tamil literature quiz competition was organized by the Tamil Forum of Paavai Arts and Science College for Women. The event commenced with a prayer song and the Tamil Thai Vazhthu. CA. N.V. Natarajan, Chairman, Paavai Educational Institutions, presided over the function. The special guest for the occasion was Mr. Kolanthaivel Ramasamy, Vice President of the Washington District Tamil Sangam in America. Mrs. Mangai Natarajan, Correspondent, Paavai Educational Institutions, graced the event by lighting the ceremonial lamp. The Chairman honored the special guest with a shawl and a memento.

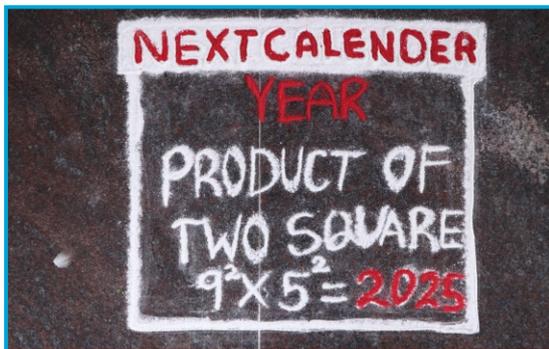
Mr. Kolanthaivel Ramasamy addressed, highlighting the importance of Tamil literature and language. In his speech, he remarked, 'It is commendable to organize a Tamil literature quiz that inspires students to appreciate the richness of Tamil literature and its cultural significance'. Learning Tamil allows us to understand its depth and excellence, such as the strength of women during the Sangam era, exemplified by story of a widow sending her son to battle with courage and resilience. 'Just as a pearl in the sea enhances the beauty of its wearer, a woman's uniqueness is beautifully expressed in Thirukkural. Tamil literature, through works like Silapathikaaram, Naaladiyar, Sivakachinthamani, Elathi, Muthumozhikanchi, Iniyavai Narpattu, and other short stories, provides insights into ancient traditions, ways of life, heroism, and culture. It teaches us valuable lessons about living. It is our responsibility to learn this extraordinary literature fully and pass it on to future generations'. He concluded his address by extending best wishes to the students, encouraging them to uphold and share the grandeur of Tamil literature with society. Mrs. Sushila Gopalaswamy and Mrs. C. Jayalakshmi, Dean Counseling, Paavai Educational Institutions, served as judges for the quiz competition.

The Tamil literature quiz featured two teams: the *Silampu Selvar Elango* team and the *Kavya Pulavar Kambar* team. After a spirited contest, the *Kavya Pulavar Kambar* team secured first place, while the *Silampu Selvar Elango* team earned second place. The winners were awarded certificates and prize money by the Chairman of Paavai Educational Institutions and the special guests. Mrs. Mangai Natarajan, Correspondent of Paavai Educational Institutions, proposed the vote of thanks.



# MATHEMATICIAN SRINIVASA RAMANUJAN'S BIRTHDAY CELEBRATION

In honor of the legendary mathematician Srinivasa Ramanujan's birthday, the Department of Mathematics at Paavai Engineering College (Autonomous), Paavai College of Engineering, and Pavai Arts and Science College organized a series of events to celebrate extraordinary legacy and inspire students. The Tribute Ceremony, featured a presidential address by Smt. Mangai Natarajan, Correspondent of Paavai Educational Institutions on 26.11.24. She emphasized the importance of approaching mathematics with a fresh perspective, encouraging both students and faculty to engage more deeply with the subject. Dr. V.P. Ramesh, Assistant Professor, Department of Mathematics Central University, Thiruvallur, was the guest speaker. He shared valuable insights on the significance of mathematics in engineering and inspired students to appreciate its practical relevance. Dr. Ramesh also discussed the emerging Z10 vs. Z2 coding versions, comparing them with widely used programming languages like R and Python, offering students a deeper understanding of contemporary trends in computational mathematics. During the ceremony, winners of the various events organized by each college were recognized and awarded certificates by the distinguished guests. The celebration of Ramanujan's birthday was a resounding success, providing students with a platform to showcase their creativity and knowledge. The event garnered enthusiastic participation and positive feedback, making it a memorable and inspiring occasion for all the students.



## ACADEMIC EVENTS

Dept. of CS, PASCW, in remembrance of World Computer Literacy Day, hosted 'Canva Clash' competition on 02.12.24. Students across all the departments took part in the competition and exhibited their talents in creativity and promoted digital literacy. Outstanding digital creations were appreciated towards the end of the event.



Alumni Webinar on 'Exploring IT Careers in Civil Engineering' was organized by the Dept. of Civil Engg. & Paavai Civil Engineering Association, PEC on 11.12.24. Er. S. Sushma, Senior Analyst, Cognizant Technology Solutions Pvt. Ltd., Chennai was the guest speaker and during her speech, she emphasized how software applications are integrated with civil engineering and she appealed all the 62 participants to be technically sound in ICT as well as in Civil Engg.

### ALUMNI GUEST LECTURE SERIES

Academic Year : 2024-25 Lecture : 10



**Er.S.U.Sushma**  
Senior Analyst  
Cognizant Technology Solutions Pvt Ltd  
Chennai

**ALUMNI**  
Paavai Engineering College  
B.E (CIVIL), Batch 2018 - 2022

**"Exploring IT careers in Civil Engineering"**

Date : 11.12.2024 - Wednesday

Department of EEE and Energy Club, in association with IIC, PEC organized a webinar on 'Fundamentals of Wind Energy Conversion System – MATLAB/Simulink Model Development' on 13.12.24. Dr.Jakeer Hussain, AP, School of Electrical Engineering, VIT, Vellore was the guest and he stressed how wind energy plays a pivotal role in generating Electricity. Also, he highlighted the Wind Energy Conversion Systems (WECS) and its applications in both small-scale and standalone setups to all. Dr. M. Premkumar, Principal of the Institution presided over the programme.

### PAAVAI ENGINEERING COLLEGE

AUTONOMOUS INSTITUTION

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING  
IN ASSOCIATIONS WITH  
ENERGY CLUB & INSTITUTIONS'S INNOVATION COUNCIL (PEC-IIC)

CELEBRATES  
NATIONAL ENERGY CONSERVATION DAY 2024

WEBINAR ON  
"FUNDAMENTALS OF WIND ENERGY  
CONVERSION SYSTEMS- MATLAB/SIMULINK  
MODEL DEVELOPMENT"

13th Dec, 2024



Department of Chemistry, PEC organized an online guest lecture on 'Advancements in Energy Storage Technology' on 18.12.24. Dr. R. Mayildurai, ASP, KCT, Coimbatore, delivered the lecture for 200 students and he asked the students to enhance the knowledge on increased adoption of renewable energy, UPS, backup power, peak saving remote power, microgrid industrial applications, automotive reduced greenhouse gas emission, improved energy reliability and cost control methods.

### Advanced Electrochemical Energy Systems

- Tailored to specific applications such as
  - Reducing carbon emissions
  - Electric vehicles
  - Renewable energy storage
  - Portable electronics
- Offers unique advantages like energy density, sustainability, and performance under different environmental conditions.



Dept. of Geology, PASCW, conducted an intra-departmental 'Quiz, Jumbled words, Guessing geological terms and Presentation on Geological ideas competitions' on 19.12.24. Various topics such as earthquakes, landslides, cyclones, floods, and droughts, pollution, global warming, deforestation and nuclear explosions were also discussed as part of the programme by the students of Geology department.



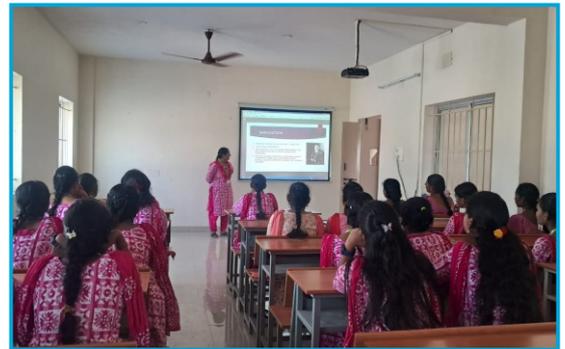
Dept. of Physics, PEC organized an online webinar on 'New Age Nanomaterials: Recent Developments in Quantum Dots' on 23.12.24. Dr. S. Senthil Velan, Asso. Prof., Dept. of Chem., Annamalai University delivered the seminar and he explained how nanofibers are formed both naturally and artificially. He also mentioned on the latest applications of quantum dots. Dr. M. Premkumar, Principal, PEC presided over the programme and Dr. K. Selvi, Dean, Academics, PEC offered her felicitations.



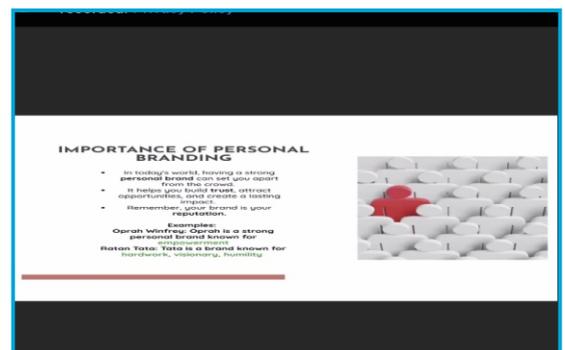
Dept. of Agri, PEC, celebrated National Farmer's Day on 23.12.24 with enthusiasm, bringing together students from both the undergraduate and diploma programs in Agriculture Engineering. The event was graced by esteemed chief guest R.N.Mouliswaran, an Alumnus and Associate Member of the International Association of Agricultural Sustainability. U.Karthickeya, Coordinator, PEC, Organic Farming, honored the chief guest. Engaging activities, including presentations, discussions, and cultural performances, were organized.



Dept. of Mathematics, PASCW conducted 'National Mathematics Day' on 24.12.24. To mark the day, 'Power Point Presentation and Poster Making' competitions were organized on the themes 'The Life and Times of Srinivasa Ramanujan' and 'Ramanujan's Impact on Modern Mathematics'. Students across all departments enthusiastically participated in the competitions.



CII-IWN, PEC organized 'Campus to Career Programme' on 28.12.24. Dr. M. Premkumar, Principal, PEC presided over the programme and gave lot of tips to enhance 'Personal Branding'. Mrs. Rekha Dhinakaran, Founder, Meraki Design and Lead Mentorship for IWN, Karur was the invitee of the programme and she conducted the session for 217 students on 'Personal Branding'. She suggested to build a strong personal brand by incorporating Consistency, Authenticity and Effective Communication.



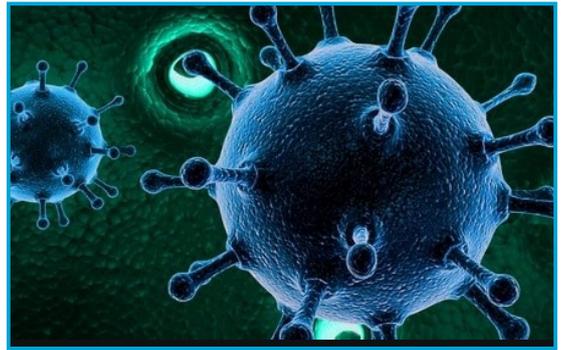
## SOCIAL SENSITIVITY

Our Paavai TQI Team, celebrated the 133<sup>rd</sup> birthday of the revered Tamil poet, Subramania Bharathiyar, with great fervor at the Government High School, Pachal, on 11.12.24. The event, which drew students, teachers, and local dignitaries, featured inspiring speeches, cultural performances, and poetry recitals. The celebration served as a tribute to Bharathiyar's enduring legacy and his contributions to Tamil literature.



# HUMAN METAPNEUMO VIRUS (HMPV)

Videos circulating on social media purportedly showed that hospitals in China are overwhelmed by a surge in respiratory illnesses, including human metapneumovirus (HMPV). Social media posts claim that outbreaks of multiple viruses - HMPV, influenza A, Mycoplasma pneumoniae, and Covid-19 have led to overcrowded hospitals and cemeteries. Reports indicate a rapid spread of HMPV, which is a great concern among health officials. Videos showed crowded hospitals, with unverified claims of a state of emergency in China. The situation has sparked fears of a potential pandemic five years after covid-19 disrupted global life.



## All you need to know about HMPV

The American Lung Association identifies human metapneumovirus (HMPV) as a significant cause of acute respiratory infections. Discovered in 2001 by researchers in the Netherlands HMPV typically spreads through close contact with infected individuals, either via respiratory secretions from coughing or sneezing or by touching contaminated surfaces like toys or doorknobs.

In the United States, HMPV tends to circulate more frequently during the winter and spring months, coinciding with the prevalence of other respiratory infections such as Respiratory Syncytial Virus (RSV) and the flu.

Symptoms of human metapneumovirus (HMPV) can vary in severity and commonly include cough, fever, runny or stuffy nose, and sore throat. Some individuals may also experience wheezing and shortness of breath (dyspnea). In certain cases, a rash may also develop as part of the infection.

## Who does it affect and how?

- Children, the elderly, and individuals with weakened immune systems are at higher risk of complications from HMPV infection.
- The virus spreads through close contact with an infected person or by touching contaminated surfaces.
- HMPV typically causes cold-like symptoms that generally resolve on their own within 2-5 days.
- Most cases of HMPV in children occur in those aged 5 years or younger. A small percentage (5-16%) may develop lower respiratory tract infections, such as pneumonia.

## Who is at risk?

HMPV can lead to both upper and lower respiratory illnesses across all age groups. However, it is particularly prevalent among young children and the elderly, where it is more likely to progress into conditions such as bronchiolitis, bronchitis, or pneumonia.

While having a history of lung diseases like asthma, Chronic Obstructive Pulmonary Disease (COPD), or emphysema does not increase the likelihood of contracting HMPV, these conditions can worsen the severity of symptoms once infected. The same applies to individuals with weakened immune systems, such as those undergoing chemotherapy or recovering from organ transplants.

## **HMPV cases in India:**

After the first potential case was reported in Bengaluru, the Human metapneumovirus (HMPV), a respiratory virus that has lately caused alarm in China, has started to draw attention in India. Cases have been reported from Karnataka and Gujarat, according to the latest updates.

According to news agency PTI, the governments in Delhi, Maharashtra and Karnataka have issued an advisory to make sure the health system is ready for a possible outbreak of the HMPV and other respiratory illnesses.

This virus mostly impacts the vulnerable populations, including small children, the elderly, and people with weakened immune systems. It mainly affects the upper and lower respiratory tracts. Although HMPV was first discovered in 2001, it remains under-diagnosed.

## **Symptoms**

From minor cold-like symptoms like fever and cough to serious respiratory conditions like bronchiolitis or pneumonia, symptoms can vary widely. The virus is extremely contagious because it spreads by respiratory droplets, particularly during the winter months when respiratory diseases are most common. For the management of HMPV infections, timely and accurate diagnosis is essential.

## **HMPV : Detection and tests**

To identify the virus, medical professionals use two main techniques as listed below.

1. Nucleic Acid Amplification Test (NAAT)- This includes techniques like reverse transcription-polymerase chain reaction (RT-PCR). By amplifying viral RNA sequences from respiratory samples, this technique provides a very accurate and sensitive diagnostic tool. It is useful in research and diagnostics since it quantifies the level of a particular gene's expression in a sample. It is appropriate for early infection diagnosis since it can identify small levels of RNA.

2. Immunofluorescence or enzyme-linked immunosorbent assays (ELISA)- This type of diagnostic method uses ELISA to find viral antigens in respiratory secretions. In order to detect the presence of the target molecule, the test combines enzymes and antibodies, resulting in a detectable color shift.

## **HMPV : The treatment**

Although HMPV does not currently have a particular antiviral treatment, early identification can only help to control symptoms and avoid consequences. Supportive treatment is essential, and in extreme circumstances, oxygen therapy may be used.

Health officials advise taking preventative steps like washing your hands, using a mask, and avoiding crowded areas, especially during peak seasons of the year. It will be crucial to incorporate routine testing for the virus into the diagnosis of respiratory illnesses when India starts tracking HMPV cases. The spread of HMPV and its effects on public health can be better understood with this proactive approach.

Even though specialists say that HMPV does not provide a worldwide health threat like COVID - 19, caution is still necessary, particularly to safeguard vulnerable groups. Health officials are more prepared to handle HMPV outbreaks and lessen their effects because of further research and enhanced diagnostic tools.

Dr.Hepsi Rachel Chellarani  
Principal, PCNR

## Faculty Journal Publications and Patents

Name of the Faculty with designation	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
Dr.D.Murugesan Prof - BME, PEC	International Journal of Intelligent Engineering and Systems	An Investigating of 5G Multi-Access Edge Computing (MEC) and Subcarrier Spacing to Improve Wireless Communications	Vol.18, No.1 ISSN 21853118
M.Pushpalatha AP - IT, PEC	International Journal of Creative Research Thoughts	Online Vehicle Rental System with Automated limit Alert	Volume No 12, Issue No.12, ISSN 2320-2882
N.Sasikumar AP - ECE, PEC	AFJBS	Optimising network energy consumption using IOT in wireless sensor networks	Page no 14625 - 14643
Dr.P.Muthusamy Prof - Cyber, PEC	IJRPR	Keystroke Dynamics and Data Leakage in Email Authentication	121879-1
R.Loganathan AP - Cyber, PEC	IJARESM	Developing an NLP-Based System to Detect Phishing Attempts in Real-Time	ISSN: 2455-6211, Volume 12, Issue 11
S.Chandrakala AP - Cyber, PEC	IJRPR	Malice Detection using PyWhat Tool	121770-1
R.Poongodi AP - Cyber, PEC	IJARIT	Strengthening Cybersecurity in Indian Healthcare - Lessons from the Recent Ransomware Attacks on Hospitals	ISSN:2454-132X, Volume 10, Issue 6
S.Chandrakala AP - Cyber, PEC	IJRPR	Malware Analysis using Sandbox	121990-1
R.Loganathan AP - Cyber, PEC	IJRPR	Chatbot for Medical Queries using AI	121844-1
Dr.S.Vijayakumar Prof - ECE, PEC S.Vijaymurugan ASP - ECE, PEC A.Sujitha AP - ECE, PEC	African Journals of Biological Sciences	Optimizing network energy consumption using parameterized energy efficient clustering protocol for the internet of things in wireless sensor networks	2663-2187
U.Karthikeyan B.Mano AP - Agri, PEC	International Journal of Innovative scientific Research	Design and Fabrication of solar fodder harvester	Volume No O2/ Issue 4
U.Karthikeyan AP - Agri, PEC	AGROPEDIA	Aeroponics: Soilless cultivation for vegetable crops	Page No - 5 / Volume No - 1 / Issue No - VII
U.Karthikeyan AP - Agri, PEC	AGROPEDIA	Aeroponics incorporation with the production of strawberries...	Volume I, Issue 7
R.K.Poongodi AP - Agri, PEC	IRJMETS	Checkpass	IRJMETS 61100152927

Name of the Faculty with designation	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
S.Ramya AP - Cyber, PEC	IJARIT	Enhanced Security in Signature Verification System Using Dynamic Sign Retrieval	OAP/IJ/246/083 (V1016-1353)
S.Ramya AP - Cyber, PEC	IJSRT	Evolution and Impact of SQL Injection Attacks in India: Analysis, Prevention Mechanisms, and Future Directions	IJSRT24DEC430
R.K.Poongodi AP - Cyber, PEC	IJARIT	Fileless Malware	IRJMETS 61200032032
R.Loganathan AP - Cyber, PEC	IJIRT	Understanding Cross-Site Scripting (Xss): Types, Impact, and Prevention Strategies	ISSN 2349-6002
S.Ramya AP - Cyber, PEC	IRJMETS	Phishing Website Detection Using Random Forest Algorithm	Volume:06/Issue: 12/December-2024
Dr.M.Sathish Kumar Prof - Maths, PEC	Mathematical Methods in the Applied Sciences, Wiley	New Study on Cauchy Problems of Fractional Stochastic Evolution Systems on an Infinite Interval	Vol.48, pp: 890–904.2025 ISSN 1099-1476

## Student Journal Publications and Patents

Name of the Student with Dept	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
O.R.Nanteesh S.V.Suryagandhan K.Sudharsan III - Cyber, PEC	IJARESM	Developing an NLP-Based System to Detect Phishing Attempts in Real-Time	ISSN: 2455-6211, Volume 12, Issue 11
M.Niranjani S.R.Dharshini K.Sushmitha III - Cyber, PEC	IJRPR	Malice Detection Using PyWhat Tool	121770-1
R.Samuel P.Rohith S.Parthasarathy B.Ramana III - Cyber, PEC	IJARIT	Strengthening Cybersecurity in Indian Healthcare - Lessons from the Recent Ransomware Attacks on Hospitals	ISSN:2454-132X, Volume 10, Issue 6
S.Bharanidharan S.Prasanth B.Ranjith III - Cyber, PEC	IJRPR	Malware Analysis Using Sandbox	121990-1
S.Jayasri K.Sakthi R.Gokul III - Cyber, PEC	IJRPR	Chatbot for Medical Queries Using AI	121844-1

Name of the Student with Dept	Name of the Journal / Patent	Title of the Article / Patent	Reference No.
A.Arulkumar IV - Agri, PEC	International Journal of Innovative scientific Research	Design and Fabrication of Solar Fodder Harvester	Volume No. O2/ Issue 4
R.Kishore R.Mithunraj IV - Agri, PEC	AGROPEDIA	Aeroponics: Soilless Cultivation for Vegetable Crops	Page No - 5 / Volume No - 1 / Issue No - VII
R.Kishore R.Mithunraj IV - Agri, PEC	AGROPEDIA	Aeroponics Incorporation with the Production of Strawberries	Volume I, Issue 7
S.Elamparithi R.Pasupathi M.Poobalan III - Cyber, PEC	IRJMETS	Checkpass	IRJMETS6110015292
M.Dhanush S.R.Tharneesh R.Arun III - Cyber, PEC	IJARIIT	Enhanced Security in Signature Verification System Using Dynamic Sign Retrieval	OAP/IJ/246/083 (V1016-1353)
M.Tharunkumar G.Lokesh K.Nandhakumar III - Cyber, PEC	IJSRT	Evolution and Impact of SQL Injection Attacks in India: Analysis, Prevention Mechanisms, and Future Directions	IJSRT24DEC430
S.Vaishak A.Yuvaraj S.Tamilarasan III - Cyber, PEC	IJARIIT	Fileless Malware	IRJMETS 61200032032
S.Manoj Kumar S.Swathy G.Monash III - Cyber, PEC	IJIRT	Understanding Cross-Site Scripting (Xss): Types, Impact, and Prevention Strategies	ISSN 2349-6002
S.Sri Cibi S.Dhinakaran A.Gowtham S.R.Tharneesh III - Cyber, PEC	IRJMETS	Phishing Website Detection Using Random Forest Algorithm	Volume:06/Issue:12

## Department of Physical Education Zone & Interzone 2024

Date	Game	Venue	Level	Position
02.12.2024	Yoga ( M & W )	Paavai College of Engineering	Interzone	Overall 1 <sup>st</sup>
15.12.2024	Kho-Kho (W)	Kongunadu College of Engg. & Tech., Thottiam	Interzone	Overall 1 <sup>st</sup>
16.12.2024	Hockey (W)	Mohammed Shathak Engg. College, Ramnad	Interzone	2 <sup>nd</sup>

Date	Game	Venue	Level	Position
21.12.2024	Powerlifting (M & W)	Paavai Engineering College	Interzone	2 <sup>nd</sup>
22.12.2024	Powerlifting (M & W)	Paavai Engineering College	Interzone	Overall 1 <sup>st</sup>

## Wall of Fame

I PRIZE



**V.YASICAA**

I - AERO, PEC

Mathematic Working Model

I PRIZE



**M.RAKSHITHA**

I - AI&ML, PEC

Ramanujan's Legacy

23.11.2024

## Mathematics Quiz

### I Prize



**R.KIRUTHIKA**

I - AERO, PEC



**E.HARIPRIYA**

I - AI&ML, PEC



**S.KABILAN**

I - CYBER, PEC



**V.S.SABARISH**

I - ECE, PEC



**JAYA POORVAJA TLK**

I - PHARMA, PEC



**R.SUKISAKTHI**

I - IT, PEC

# Alumni Testimonial

## PAAVAI ENGINEERING COLLEGE



**M.PRAVEENKUMAR**  
B.E - MCTS, 2016 - 2020  
Software Engineer (QA)  
Botree Software Pvt Ltd, Chennai

Paavai Engineering College played a pivotal role in shaping my career and personal growth. The dedicated faculty, practical training, and dynamic learning environment equipped me to face real-world challenges with confidence. The Department of Mechatronics Engineering fostered innovation and excellence, providing a solid foundation for my success. Proud to be an alumnus!

## PAAVAI COLLEGE OF ENGINEERING



**S.SRINIVAS**  
B.E - MECH, 2019 - 2023  
Safty Officer, Ashok Leyland (III)  
Hosur

As, I reflect on my time at college, I am filled with immense gratitude for the guidance and support I have received from my institution and its dedicated faculty. The education I have received has been transformative, and the lessons learned extend beyond the classroom. I am particularly grateful for the opportunity to serve as the Department Symposium Coordinator. This experience has been one of the most rewarding aspects of my college journey, allowing me to develop essential skills in leadership, event planning, and teamwork. It gave me the platform to contribute to the academic community while learning the intricacies of organizing and executing a large-scale event. The encouragement and mentorship I have received from professors have shaped my academic and professional path, empowering me to approach challenges with confidence. The collaborative environment at my college has been instrumental in fostering both personal and academic growth. I am deeply thankful for the enriching experience, the knowledge shared, and the friendships formed, all of which have played a key role in preparing me for the future.

## PAVAI ARTS AND SCIENCE COLLEGE FOR WOMEN



**SHAHINA**  
B.Sc,(Nutrition and Dietetics ) - 2021 - 2023  
Business Development Associate Leader  
Nxtwave,Chennai

I am A.Shifana, Alumina of PASCW, Anaipalayam. My college experience has been truly transformative, shaping me into a stronger and more resilient individual. Through overcoming challenges and seizing opportunities, I discovered my strengths and weaknesses, emerging more confident and self-assured. Notably, the college's emphasis on innovation and creativity enhanced my problem-solving skills and broadened my global perspectives. Furthermore, the unwavering support and guidance from faculty and peers empowered me to navigate complex challenges and remain resilient in the face of adversity. I would like to thank the college administration and the staff members for moulding me into the person I am today. I will always cherish the memories and lessons learnt during my study here.

# ENGLISH GROVE

## FOREIGN WORDS AND PHRASES

**in memoriam (Latin) : in memory of**

e.g. I decided to establish an educational institution in memoriam of my mother.

**ad hoc (Latin) : established for a particular purpose**

e.g. An ad hoc committee was appointed to look into the matter.

**dei gratia (Latin) :by the grace of God**

e.g. She recovered from her illness dei gratia.

**genre (French) : style, kind, type**

e.g. Novel is a genre of literature.

**lingua franca (Latin) : common language of all**

e.g. English is the lingua franca of the modern world.

**literateur (Latin) : a literary man**

e.g. R.K.Narayan is a great literateur.

**parole (Latin) : word of honour**

e.g. He was released on parole.

**summumbonum (Latin) : the greatest or supreme good**

e.g. Good Education is the summumbonum of every woman.

**tempo (Latin): characteristic style of movement**

e.g. I observed the tempo of her walking.

**ad libitum (Latin): as much as you please**

e.g. Please eat ad libitum.

**adieu(Latin) – good bye**

e.g. I bid you adieu.

**sans ( French) – without**

e.g. An old man is sans teeth.

**incognito (Latin) – in disguise**

e.g. The king went round the city incognito.

**status quo(Latin) – the same state as before**

e.g. The Chief Minister wants to maintain the status quo.

**sine die (Latin) – without assigning a date**

e.g. The college was closed sine die.

**juggernaut (Sanskrit) – a large vehicle**

e.g. The Government is like a juggernaut.

**chauffeur (French) – car driver**

e.g. My chauffeur is a graduate.

**en bloc (French) – as a group**

e.g. There are reports of teachers resigning en bloc.

**a la mode (French) – according to the custom**

e.g. We are celebrating this festival a la mode.

**exempli gratia (Latin) -for example**

e.g. Many are fond of popular pets, e.g. cat, dog, parrot, love birds etc.

# Paavai in Press



**Paavai EC is champion**  
Paavai EC registered a 10-9 win over KSRCE in the final of the inter-collegiate tournament at Kongunadu Sunday. This defeated...



**பாவை கல்வி நிறுவனங்களில்**  
ருதுகள் வழங்கு... விருதுகள் வழங்கி சிறப்புகள்...



**இலக்கியங்கள் மூலம் தமிழர்களின்**  
பாசாரத்தை எடுத்து சொல்ல வேண்டும்... பாவை கல்வி நிறுவனங்களில் ஆன்ரோர் முற்றம் எனும் விருது...



**பாவை மகளிர் கல்லூரியில்**  
வினாடி-வினாடி போட்டியில் வெற்றி பெற்றவர்களுக்கு பரிசு...



**பாவை கல்வி நிறுவன ஆலயத்தில் ஸம்வஸ்தா அபிஷேகம்**  
சிறப்பு முகாந்தரத்தில் சூழிதா விழா, சூழிதா சாஸனம், சூலம்...



**வித்யாஸ்ரம் பள்ளிகளின்**  
அறிவியல் கண்காட்சி... பாசாரத்தை எடுத்து சொல்ல வேண்டும்...



**பாவை பொறியியல் கல்லூரியில்**  
விவசாய மின் தன்மை பற்றிய கலந்துரையாடல்... பாசாரத்தை எடுத்து சொல்ல வேண்டும்...



**பாவை பொறியியல் கல்லூரியில்**  
மாணவர்கள் சாதனை... பாசாரத்தை எடுத்து சொல்ல வேண்டும்...



**பாவை கல்வி நிறுவனங்களில்**  
ஆன்ரோர் முற்றம் விழா... பாசாரத்தை எடுத்து சொல்ல வேண்டும்...

## With best compliments from :

- Paavai Engineering College ( Autonomous)
- Paavai College of Engineering
- Pavai College of Technology
- Paavai Polytechnic College
- Pavai Arts & Science College for Women
- Paavai College of Education
- Paavai Teacher Training Institute
- Paavai College of Pharmacy and Research

- Paavai College of Nursing and Research
- Paavai Institute of Allied Health Science
- Paavai Physiotherapy Science College
- Paavai Vidhyashram CBSE School
- Paavai Matriculation Higher Sec. School
- Paavai Vidhyashram School - Salem Campus
- Paavai IAS Academy
- Paavai Nrithyalaya

**Paavai Medical Centre and Hospital**  
(400 Bedded Multispeciality Corporate Hospital)