PAAVAI VOICE

APRIL - 2024

A MONTHLY BULLETIN

Chairman's message

Dear Colleagues, Students, and Friends,

As we step into April, I am filled with a sense of pride and anticipation for the remarkable events lined up this month. Our collective efforts and dedication continue to set new benchmarks in our institution's journey, and I am excited to highlight the key events that will showcase our talents and innovations.

The first radiosonde balloon was launched on 17.04.24 reaching an altitude of 33 kms. This launch was honoured by Dr.Hareef Baba Shabeb, Scientist at National Remote Sensing Centre of the Indian Space Research Organisition(ISRO). It is another feather to the cap of Paavai. This activity is a testament to our commitment to practical, hands-on learning and research. It provides our students with invaluable experience in meteorological studies and data collection, fostering a deeper understanding of atmospheric sciences.

I am thrilled to share about Placement day, a significant milestone for our students, marking the culmination of years of hard work and the beginning of their professional journeys on 23.04.24. I extend my heartfelt congratulations to all our students stepping into the next phase of their careers. Our institution's robust placement support system has consistently matched our talented graduates with top-tier organizations, and this year is no exception.

Next, I feel delighted to announce Medfinix 2024 held on 21.04.24. Medfinix has always been a beacon of medical innovation and interdisciplinary collaboration. This year's conference promises to be even more impactful, bringing together experts, researchers, and students to discuss ground-breaking advancements and the future of healthcare technology. I encourage and congratulate everyone who participated actively and made use of the most of the unparalleled learning opportunity.

Finally, we have our much-anticipated Techfest, a celebration of creativity, technology, and innovation. This festival is a platform for our brightest minds to showcase their projects, compete in exciting challenges, and engage with the broader tech community. I look forward to witnessing the ingenuity and enthusiasm that define our Techfest every year.

As we look ahead, I encourage all our students to seize these opportunities to learn, grow, and excel. Engage deeply with the activities, network with professionals, and most importantly, take initiative in your research endeavors. Our engineering departments are vibrant hubs of innovation, and I urge you to collaborate with your peers and faculty, push the boundaries of your knowledge, and contribute to cutting-edge research. Your curiosity and dedication are the driving forces behind our institution's success.

These events reflect our institution's spirit of excellence and our commitment to nurturing talent and innovation. I am confident that April will be a month of outstanding achievements and inspiring moments.

Thank you for your continued dedication and support.

ISRO Radiosonde Baloon Launching

On behalf of Paavai Engineering College, a Memorandum of Understanding (MoU) was inked on 25.10.22 with the National Remote Sensing Centre (NRSC) of the Indian Space Research Organization (ISRO), Department of Space. The project, titled 'Measurement of Vertical Profiles of Temperature, Relative Humidity, and Winds Using GPS Aided Radiosonde,' is set to run for five years with a budget of Rs. 30,00,000/-.

The first year focused on preparing the MoU, securing approval from Air Traffic Control (ATC), and installing the radiosonde ground station. In the second year, regular intervals of radiosonde measurements will be conducted at the host location. The third year will expand these measurements to network stations, and a comprehensive database will be developed. The fourth year will involve data preparation and analysis, while the fifth year will focus on hosting the radiosonde data on NICES/NRSC sites and preparing the final project report.

The primary goal of this project is to understand boundary layer processes, radiative transfer calculations, air pollution meteorology, weather prediction, climate monitoring, and to validate these parameters with satellite data. Upper air temperature and wind, which are Essential Climate Variables (ECVs), are of particular importance. The project aims to create a national data repository for climate and environmental sciences (NICES) by conducting measurements at various locations across India.

The MoU facilitates the installation and ascent of radiosondes and plans for future network expansion. The first radiosonde balloon was successfully launched on 17.04.24, reaching an altitude of 33 kms. This launch was honored by Dr. Hareef Baba Shabeb, Scientist 'SF' at NRSC, ISRO. The radiosonde collected vital atmospheric data, including temperature, pressure, humidity, and wind speed, which was then transmitted to the receiving station and confidentially transferred to NRSC/ISRO.

TECHFEST 2K24

Paavai College of Engineering conducted a two-day National Level Technical Symposium TECHFEST- 2K24 on 03.04.24 & 04.04.24. The inauguration ceremony of TECHFEST 2K24 commenced on April 3, 2024, at Anandha Arangam. This event marked the beginning of what promises to be an engaging and enlightening series of events for the tech community. The programme started with the prayer song. Mr. E. Tamizhan, III-CSE, welcomed the gathering. Shri.CA. N.V. Natarajan, Chairman, Paavai Institutions inaugurated and presided over the function. His presidential speech served as a wellspring of inspiration and guidance for the audience. He instilled in them a deeper comprehension of the importance of active participation, self-awareness, and diligent practice. His insightful discourse resonated with attendees, motivating them to pursue excellence in all their endeavors. Smt. Mangai Natarajan, Correspondent of Paavai Institutions initiated the function by lighting the Kuthuvilaku. Dr.K.K. Ramasamy, Director Admin, Dr.A. Immanuvel, Principal, Paavai College of Engineering, Dr. M. Premkumar, Principal, Paavai Engineering College, Deans of Paavai Institutions, COE, Paavai Engineering College, Heads of various departments, faculty members, students and delegates from other colleges participated in the inauguration ceremony.

The chief guest Ms. Padmini Subramanian, Associate Vice President, JP Morgan Chase & Co, Bengaluru delivered the keynote address. A highlight of the event was the keynote speech delivered by the Chief Guest, Ms. Padmini Subramanian, hailing from Bengaluru. She shed light on the significance and myriad opportunities afforded by AWS (Amazon Web Services) certificates. She elucidated how these certifications can enhance one's resume and elaborated on the process, locations, and timing for undertaking the certification exams. Adding depth to the ceremony, Ms. Padmini also promoted "Chip War," a book authored by Chris Miller. This literary work delves into the evolution of chip manufacturing, providing insights into its historical progression and contemporary significance. Also, students of Paavai College of Engineering showcased their talents in Project Expo conducted as part of Technical Symposium.

The valedictory function of the National Level Technical Symposium, Techfest 2024, was graced on 04.04.24 at Pragathi Hall by the esteemed presence of Smt. Mangai Natarajan, Correspondent of Paavai Institutions, who presided over the function. Smt. Mangai Natarajan, in her valedictory address, urged the participants to actively engage in future events. Additionally, she emphasized the institution's unwavering dedication to student welfare and the cultivation of excellence among its students. As a testament to the achievements of the participants, prizes and certificates were awarded to deserving students, recognizing their outstanding contributions and accomplishments during TECHFEST 2K24. The valedictory session concluded with a vote of thanks proposed by Ms. Kaviyasri, II-CSE.

MEDFINIX 2K24

Dr. Jagadeesh Madi Reddy, Interventional Cardiologist, Yasodha group of Institution, Hyderabad was the chief guest for the MEDIFINIX '24. Kuthuvilakku lightened by Dr. Jagadeesh Madi Reddy, our honorable Chairman Sir and our beloved Correspondent Madam. It is our first event to conduct the MEDIFINX'24 conference. A national conference on Emerging Excellence in Cardiac Care - EECA '24 on 24.04.24 & 25.04.24. This national conference has been organized by our Paavai Physiotherapy Science College along with other Paavai Paramedical Colleges. This conference has also accredited by the Tamilnadu Dr. M.G.R. Medical University.

In the two days conference of scientific session, there was poster presentation on the first day and oral presentation on the second day. Mr. Raj Kumar, MPT., Ph.D., Principal, Vivekanandha College of Physiotherapy presided the events for poster presentation. Dr. Paulraj Manickavelu MPT., Ph.D., Associate Professor, Sri Venkateshwara College of Physiotherapy, Pondicherry has presented on the topic of "Optimizing outcome with exercise prescription and strategies for cardiac rehabilitation" on day one.

Dr.Hari Hara Sudan MBBS., MD., Consultant - Accident and critical care medicine, Sri Gokulam Speciality Hospital has presented the Recognition of Cardiac Arrhythmias. Dr. Vishal Raj MBBS., MS., and Dr. Kodeeshwaran MBBS., MEM., Preetham Hospital, Salem has conducted workshop on Basic Life Support on day two. 66 students from various physiotherapy colleges had participated in MEDIFINIX'24. The program ended with feedback from participant and valedictory note of our Correspondent madam. .

Placement Day

The Placement Day was celebrated on 30.04.24 in Paavai Educational Institutions. The programme started with the Prayer Song and it was headed by the Chairman of the Institutions, Mr. CA.N.V.Natarajan. The Chief Guest of the Day was Shri.Jayaraman Gnanavadivel, Director – Ola Electric Mobility, Ms. V.Shanmathi, Final Year Electronics and Communication Engineering student gave the welcome address. The Chairman of the Institutions, Mr.CA.N.V.Natarajan honoured the Chief Guest with the memento and he gave the presidential address.

Shri.Jayaraman Gnanavadivel gave the key note address of the day. He spoke about the Cleanliness of the campus and Rainwater harvesting. He emphasised the importance of parents in every student's life. He strongly believes that the parents are the driving force for every student life. He expressed about the importance of core companies, corporate behaviour, and demographic dividend. He shared his childhood memories, college life and his corporate culture. He conveyed some of his thoughts regarding faster growing Electric Vehicle Sectors (EV Sector), where the need of transition from fossil fuels to other renewable energy is required and growing Pharmaceutical industries. He emphasized the Demand Based Learning Outcomes such as Lithium Ion Battery production and Recycling of Batteries. He congratulated the students for getting many offers from various companies. He proudly said that out of 4000 employee OLA Electric have appointed 3500 women employee. In future, he envisioned that the automobile industry would be Women centric company.

The Chief Guest and the Chairman of the Paavai Educational Institutions, distributed the job offer letters of various companies like Hexaware Technologies, Tata Consultancy Services, Tech Mahindra, Hitachi to 3246 placed students. The Correspondent of Paavai Educational Institutions, gave away the felicitation address. Finally, Mr V.RoshanKumar Final year Bio Medical Engineering student gave away the vote of thanks. The programme was whole heartedly concluded with the National Anthem. In this function the Director – Admin Dr.K.K.Ramaswamy, Admission Director Mr.K.Senthil and the Placement Head Dr.R.Thamaraiselvan along with the Principal of various Paavai Colleges, HOD's, Professors and students participated.

ICATS 24

Paavai Engineering College organized a one-day International Conference on Adaptive Technologies for Sustainable Growth 'ICATS'24' on 27.04.24. Mr.Thiago Henrique De Lima, R&D Team lead, Philips Healthcare Systems, Brazil and India was the chief guest of the Inauguration Ceremony. The welcome address was delivered by Director Administration, Paavai Institutions. The Chairman, Paavai Institutions delivered the presidential address. In his address, he stated that any technology will grow naturally and help the mankind to live a comfortable and convenient life. He also stated that any technology may have two sides like positive and negative, but the technology developed must be environment friendly, sustainable and should not be tampering the environment of the globe. Ms.V.Shanmathi, Final Year BE ECE, introduced the chief guest.

Mr.Thiago Henrique De Lima, R&D Team lead, Philips Healthcare Systems, Brazil and India delivered his keynote address. In his address, he explained the efforts of developing an equipment and software in healthcare industries. He stated that user experience and technology to link patients with the doctors are well developed like Telemedicine, APPs, etc. He explained the importance of cyber security in healthcare systems and stated that there is 60% probability of cyber-attacks. He also added the usage of Cloud Computing methods, Artificial Intelligence and Machine Learning that has been around 900 Billion Dollar business across the globe. He insisted everyone to find their passion and purpose to make a difference in one's life.

Madam Correspondent, Paavai Institutions gave the felicitation address. In her address, she stressed the fact, that scientific innovations and research are the key factors for better survival with values. She also insisted on 'Own our words and deeds' and be socially responsible and economically viable. Dr.T.Arun Kumar, Head of the Department, BME gave the prelude to ICATS 24, in which he stated that out of 825 research papers received from reputed institutions, 250 papers were selected for 18 parallel sessions Finally, the vote of thanks was delivered by Dr.M.PremKumar, Principal, Paavai Engineering College.

ACADEMIC EVENTS

The FDD has organized a six -day Induction Programme for the recently recruited faculty members to make them familiar with the institutional practices and the instructional strategies of Paavai, on 01.04.24. Shri.CA.N.V.Natarajan Chairman, Paavai Institutions, highlighted that teachers should be exemplary role models to create an active learning environment in the classrooms which will enable students to thrive in the real world.

The department of IT, in collaboration with the IIC, PEC, the Growing Coders Club (GCC), and the Google Developer Student Clubs (GDSC), jointly organized the "TRACKATHON'2K24" program on 02.04.24. More than 20 student teams from various departments enthusiastically participated in TRACKATHON'2K24, presenting their project details before the esteemed Jury. The session proved to be highly interactive and engaging.


The Fine Arts Club of the department of ECE, PEC, in association with the Institution of Engineers, Salem Local Centre has organized an event titled 'Tech Waves' on 10.04.24. Students were asked to solve puzzles that has unveiled the mind power of the students.. As per the feedback collected from the students, they added that it was an opportunity to showcase their logical skills and talents.

A Guest Lecture on the topic, 'Essence of Success' was organised by the department of Commerce of PASCW on 10.04.24. The guest speaker Dr. T. Kalai Selvi, Director of MBA, PEC, in her special address explained the' Essence of Success'. She stated that genuine success is in being honest, respecting parents and dedication in work. She insisted the students to realise goals and dreams that have been set from within, rather than those dictated by societal norms.

The department of EEE, PEC, organized an Online Guest Lecture on 'Prediction of RUL of Battery – A Machine Learning Approach for Sustainable Transportation' on 10.04.2024. The resource person, Dr.K.Karthick, M.E., Ph.D., ASP, department of EEE, GMR Institute of Technology, Andhra Pradesh, explained about the systematic navigation through challenges in predicting the RUL values of Li-ion batteries, emphasizing the significance of ML approaches.
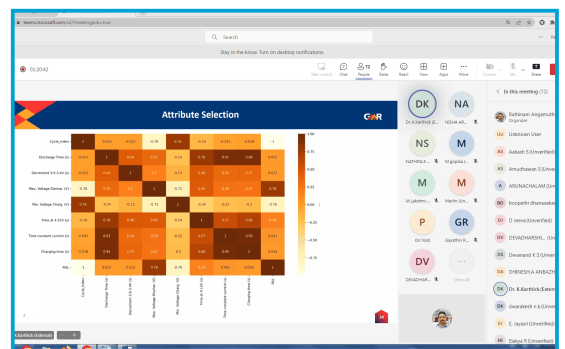
On 12.04.24, Ekathra-24 an incredible event was conducted by the department of MBA and MCA,PEC, for all UG students from various colleges to showcase their talents in different events and competitions. AD-ZAP & Spot event, [BGM- Finder] was conducted by the students of MBA. All the participants from different colleges participated with great enthusiasm and gave their complete involvement for success of the program.

The departments of MCA and Cyber Security, PEC, in association with Institutions Innovation Council (IIC) organized a one day workshop on 'Thriving in the Corporate Jungle' on 12.04.24. The resource person Mr.Venkatesh Rajagopal, As.Mgr., DXC Technology India Pvt. Ltd, Bengaluru, motivated the student's roadmap to stepping into the corporate world. The students actively participated and got benefitted.

The department of ECE, PEC, in association with Institution of Electronics and Telecommunication Engineers of India (IETE) -Erode Local Center organized a Hands on training Titled "IoT & Raspberry PI" on 13.04.24. Mr. Karthi Moorthy, Senior Embedded & IIOT Developer, Om Technologies Corporation, briefed on how to interface sensors, servo motors with Arduino Microcontroller and their related programs.

The IIC and the department of IT, PEC, jointly organized a Mentoring Session on 'How to plan for Startup — Legal and Ethical steps IIC6.0' on 15.04.24. Dr.A.Sathyapriya, Founder / Director, Dr .Med Bird Pvt Ltd and Mr.G.Vasudevan, District Coordinator of EDII-TN, were invited as resource persons. Students from all the five Mentee institutions participated in the mentoring session and expressed their ideas and opinions about the theme.

The department of Cyber Security, in association with Digital Defenders Club organized workshop on 'Safeguarding Against Digital Threats and Enhancing Digital Wellbeing' on 16.04.24. The resource persons were Mr. M. VAIRAMUTHU, Cyber Security Mentor (Naan Mudhalvan — Tamil Nadu) & The Times of India Group. The whole training was on malware analysis which was informative.

The department of CSE, PEC, in association with IIC Computer Society of India, Paavai soft Innovation Center and SD & IMC, organized INNOVATE X'24 on 16.04.24. The objective of this event was to enhance the student's knowledge through ideas, prototype and project implementation. Effective and knowledgeable participants were identified and rewarded by the juries.


The department of Civil Engineering, PEC, and Paavai Civil Engineering Association, PEC-IIC, jointly organized Alumni Guest Lecture titled 'Innovative Concrete Solutions- Demonstrating Excellence in Concreting" and One Day Workshop titled 'BIRLA- CONQUERETE' Cube Contest on 16.04.24. Students learnt about Proportioning of Ingredients used for the manufacturing of concrete, compaction and consistency of concrete.

The department of Mechatronics Engineering organized a one-day workshop through online titled on 'PLC Ladder Logics for Engineers' on 20.04.24. The guest speaker Mr.S.VenkatPrasad Customer support Engineer, Janatics Pvt.Ltd, Coimbatore, enriched the students with the conceptual as well as practical knowledge of PLC Ladder & latest technologies being used to achieve automation.
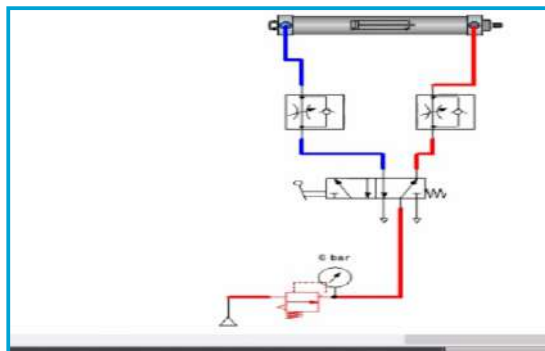
English Literary Association conducted an activity named 'Book Chat Show' in honour of Shakespeare's Birthday, World Book Day and English Language Day on 23.04.24. In this activity students were divided into three teams and were asked to find out the names of Shakespeare and other writers' literary works with the help of the given alphabets. The students participated with great enthusiasm and won prizes.
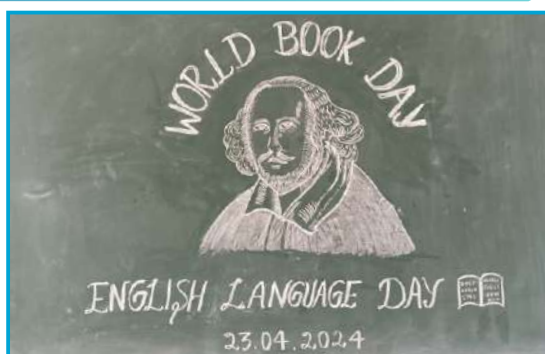

A speech competition was organized by Paavai speakers Club on 23.04.24 for the students of Paavai Engineering Institutions. Dr. Hepsi Rachel Chellarani, the Principal of Paavai Nursing College, as the Chief Guest added value with her insights on speaking skills and stage presence which is crucial for budding engineers to not only excel in technical aspects but also in communication, as it plays a significant role.

On 24.04.24 the department of Geology conducted a seminar on the title "Astronomy from 'Past to Present'. The chief guest, Mrs D. Mekala, M.Sc., M.Phil. in Mathematics, Secretary of Salem Astro Club, Treasurer of Tamilnadu Astronomy and Science Society presented a power point presentation on Astronomy from past to present. She elucidated on how space is connected with Geology, Mathematics, Physics, and Chemistry and also described the origin of space and its overall evolution.

An Alumni Guest Lecture on the topic 'Crafting Careers in Vehicle Aerodynamics and Design' was organized through online by the department of Aeronautical Engineering on 24.04.24. Ms.S.Keerthi, ED-BOM Engineer, Ford India Pvt Ltd, Chennai was the Alumni Speaker. The objective of the event was to familiarize students with the various design tools presently used in the Aviation Industry along with their features and specific applications.
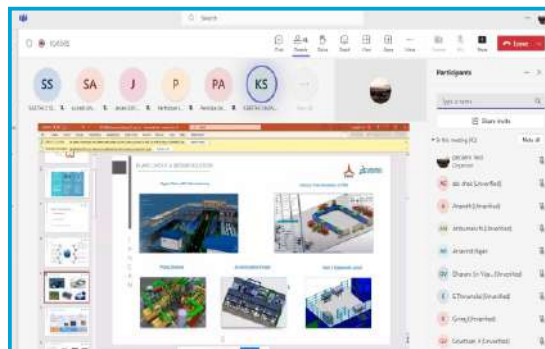

A Guest Lecture on 'Safety techniques and measures in production units' was organized by the department of Mechanical Engineering, Safety and fire Engineering, Robotics & Automation in association with Resource club on 24.04.24. The resource person Mr.Melan Maxwell B.E.,M.B.A COO-Eurogulf-India, stressed the importance of seizing the opportunity to update knowledge in manufacturing and production techniques for enhanced efficiency. The session was beneficial to the participants.
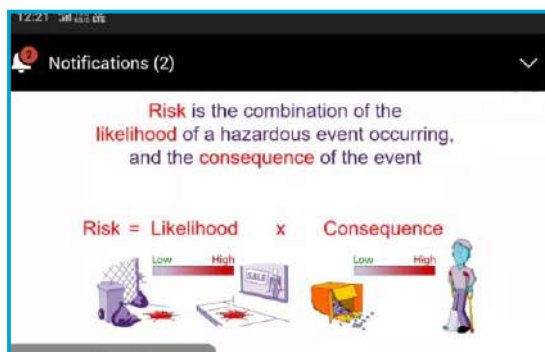
Alumni Meet was conducted by MBA, PEC, on 29.04.24. Mr. Anish K. Chocko, an able negotiator and tough task master was the Guest Speaker. He focused on the significance of Time Management, Communication Skills, Problem-Solving Skills, Soft Skills, Technological Proficiency, Networking, Industry Insights which empowered girl students to step forward towards their progress confidently.

The IIC in association with the department of EEC of PEC has organized an online webinar on 'Intellectual Property Day' Online Webinar on Advanced information on Intellectual Property Rights through the Microsoft team's platform on 29.04.24. Mr.K.Senthil Kumar, AP & Training coordinator, Department of IT. K.S.Ranagasamy College of Technology, Namakkal talked about the definitions of intellectual property and intellectual property rights, the global IPR regime, and Indian laws governing IPR.
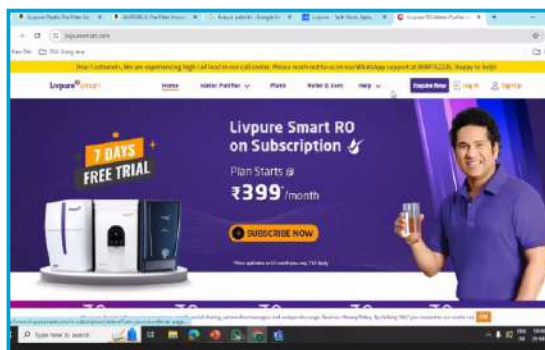
The IIC in association with Entrepreneurship Development Cell & Crescent Innovation and Incubation Council CIIC celebrated 'World Creativity and Innovation Day' by organising a Workshop on AI-ML & IIOT on 26.04.24. Mr.T.Vigneshwaran, Founder and CEO, Sri Nandha Infotech Pvt Ltd, Chennai was the resource speaker. In his session, he emphasized the importance of Innovation cycle and the various phases of Artificial Intelligence and Machine Learning.

SOCIAL SENSITIVITY

On the first day, they kicked off with interactions with senior volunteers, who listened to their journeys and joyful moments in one-on-one calls.
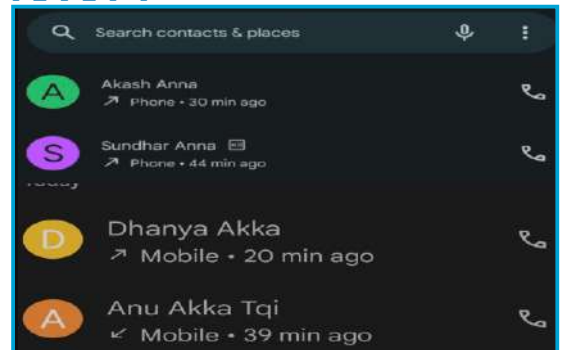
Volunteers were divided into teams according to their classroom location. Each team visited front-line workers on their respective floors in college. They greeted them and also listened to their stories, which made them feel special, some of them were overwhelmed by our actions.

Our volunteers went to Government Higher Secondary School, Namakkal North, and Government Higher Secondary School, Ayothiyapattinam, for sapling plantation. With the permission of the headmistress of those schools, our volunteers planted almond saplings throughout the premises, reflecting the social responsibility of our team.

On the fourth day of the TQI week celebration, our volunteers engaged in the activity titled "Mind Merge." This activity aimed to facilitate knowledge sharing among volunteers regarding recent trends in their respective departments and cutting-edge technologies. Organizing volunteers also presented recent global trends. The activity was conducted in groups, with each group composed of members from various multidisciplinary departments.

The fifth-day program, titled "Threads of Kindness," involved our volunteers being divided into two teams to organize activities at two different venues. I). The first team focused on showing gratitude to the librarian who maintains the rural library at Thathaiyankarpatty. Despite being run by just one elderly lady, this library has greatly benefited numerous students in the area. As a gesture of appreciation, our volunteers also planted a tree at the library premises.

The second event took place at the Sivapakayam Home for Destitute Elderly and Children, located on Tiruchengode Main Road, Namakkal. Our volunteers collected unused clothes from both the girls' and boys' hostels, carefully sorting them based on their condition. The clothes in good condition were then donated to the home, totaling around 300 items. Additionally, our volunteers spent quality time with the elderly residents, listening to their stories and sharing meaningful moments with them.

The final day of the TQI week celebration featured the Volunteers Interaction Program. Subsequently, volunteers participated in the 'Dream Big' activity, where they wrote down their dreams on sticky notes and shared them on stage, explaining the reasons behind their aspirations. Several icebreaker activities were organized for the volunteers, focusing on team bonding and understanding the flow process of TQI. The celebration concluded with a group photo to commemorate the event.
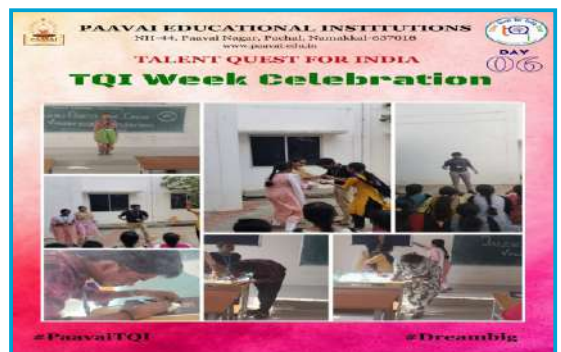
The Paavai TQI Zhagaram team celebrated Tamil New Year from April 8 to April 14 with a week of specialized activities to promote holistic learning of the Tamil language. Volunteers translated English content on classroom blackboards into Tamil and encouraged using Tamil for signatures and social media posts. They also shared Thirukkural verses and their facts, fostering cultural appreciation. Additionally, traditional Tamil games were played, providing a vibrant, engaging experience that highlighted the richness of Tamil heritage and language.

The guest lecture on 'Career Guidance' at PEC, featuring Mr. R. Sudharshan from TQI, emphasized problem-solving skills and attitude in navigating the corporate world. Dr. M. Premkumar, Principal, PEC highlighted the importance of volunteerism. Mr. Sudharshan addressed skill gaps in today's generation and announced leadership positions for the TQI team. Notably, M. J. Safa Faren and E. Srihari were appointed as project managers. The event saw the announcement of new team leaders reflecting a commitment to community engagement.

The NSS of PCE conducted a blood donation camp on 17.04.24. In Visveswaraya hall. The programme was chaired by Dr. Senthilkumar, Medical Officer, Rasipuram GH. The student from our Paavai Institutions had donated the 140 units of blood to Rasipuram and Namakkal Government Hospital through this camp. Our NSS Volunteers consisting of 30 boys and 20 girls completed the volunteer job. Some volunteers donated blood. Finally the donors were appreciated with certificates.

25 NSS volunteers of Paavai Engineering College provided volunteership outside polling booth for Lok-shaba Election-2024 on 19.4.24 along with Namakkal and Pudduchattram police. They formed a queue properly to cast their votes at the polling booth. Also they assisted and supported elderly people in voting properly.

Faculty Achievements and Awards

Name of the Faculty	Awards / Achievement Details	Awarded by	Date
Dr.B.Venkatesan Prof. & Head, IT	IEEE International Conference Reviewer	BNM Institute of Technology, Bangalore	19.04.2024 & 20.04.2024

Student Achievements and Awards

Name of the Student	Awards / Achievement Details	Awarded by	Date
M.Vaaseekaran S.Selvamani S.Gunaseelan Final/IT	Top 1000 Ideas (Awarded a grant of Rs 10,000 to develop their innovative solutions further)	Niral Thiruvizha 2024, Naan Mudhalvan	09.04.2024

Faculty Book Publications

Name of the Faculty	Title of the book	Name of the Publication	Reference No
Dr.M.Sudha Prof&Head-ECE, PEC	Fundamentals of Deep Learning	AN Publications.	ISBN:978-81-970660-5-4
R. Vimala AP/Maths	Embedded C Programming	SKRGC Publication	978-81-19980-64-2

Faculty Journal Publications and Patents

Name of the Faculty with designation	Journal / Patent Name	Title of the Journal / Patent/ Article	Reference No.
R.Balasubramani Prof-Chemical, PEC	ICATS 24	Making of bioplastic from pectin by citrus peels	978-93-91977-38-2
Dr.K.Gopi Prof-Chemical, PEC	ICATS 24	Studies on production of pulp and paper from sugarcane bagasse	978-93-91977-38-2
Dr.Ellamparuthi AP-Chemical, PEC	ICATS 24	Studies on floatation of waste mobile printed circuit boards	978-93-91977-38-2
Dr.P.Balaganesh Prof-Chemical, PEC	ICATS 24	Cellulose based hydrogel synthesis	978-93-91977-38-2
G.Swathi AP-Chemical, PEC	ICATS 24	Preparation of face serum from nigella sativa (black cumin) seed oil	978-93-91977-38-2
M.Abishek AP-Chem, PEC	ICATS 24	Comparative estimation of b-complex vitamin content in chicken egg, buffalo milk and goat milk	978-93-91977-38-2
R.Balasubramani Prof-Chemical, PEC	ICATS 24	Comparative estimation of b-complex vitamin content in chicken egg, buffalo milk and goat milk	978-93-91977-38-2
P.Indhumathi AP-Chemical, PEC	ICATS 24	Comparative estimation of b-complex vitamin content in chicken egg, buffalo milk and goat milk	978-93-91977-38-2
Dr.M.Sudha Prof&HEAD-ECE, PEC	The International Journal of Novel Research and Development (IJNRD).	Women Protection Device using Stun Gun Dress	ISSN NO:2456-4184 Volume 9,Issue 4
Dr.M.Sudha Prof&HEAD-ECE, PEC	Applied Soft Computing	Energy Efficient Spiking Deep Residual Network and Binary Horse Herd Optimization Espoused clustering Protocol for Wireless Sensor Networks	Science Direct Volume 157
Dr.R.Pushpavalli ASP-ECE, PEC	International Journal of Novel Research and innovative development (IJCCTS)	Smart sensor Infrastructure for Environmental air quality monitoring	ISSN NO: 2278-9723 Vol. 12, No. 1 , 2024 (pp. 33-37)
R.Pradeepa ASP-Maths, PEC	Advances in Mathematical Modeling and Scientific Computing, ICRDM-2022	Successive Approximation of Neutral Stochastic Partial Integrodifferential Systems with State-Dependent Delay and Poisson Jumps	978-3-031-41420-6-55
P. Sethunathan AP-MECH, PEC K. K. Ramasamy Prof-MECH, PEC A.P.Sivasubramaniam Prof& HEAD-MECH, PEC	International Journal of Modern Physics C	Aerodynamic performance of semi-wing with multiple winglets operating at low- and medium-range Reynolds numbers	0129-1831
Dr. C.Nirmala Prof-BioTech, PEC	Keratinase: A Futuristic Green Catalyst and Potential Applications	Springer, International (Book Chapter	Online ISBN978-3-031-48143-7

Name of the Faculty with designation	Journal / Patent Name	Title of the Journal / Patent/ Article	Reference No.
K.Sundaramurthy, Prof-MECH, PEC V.Subburam ASP-MECH, PEC M.Makesh AP-MECH, PEC	Journal of Mechanical Science and Technology	Intelligent prediction using AI-based modeling and optimization of surface roughness in Al7049 end milling with coconut oil under minimum quantity lubrication	1976-3824
Dr.K. Kavitha Prof-BioTech, PEC	Mechanically Robust Hydroxyapatite/ Graphene Nanocomposites: Non-Apoptotic Acute Toxicity Evaluation in Wistar Rats with Enhanced Bone Regeneration	Science Direct (Research article)	SURFIN-D-24-01815-Submissions with Editor
Dr.K. Kavitha Prof-BioTech, PEC	Exploring the Biocompatibility and Healing activity of Actinobacterial-Enhanced Reduced Nano-Graphene Oxide in in vitro and in vivo model and induce bone	Springer Journal (Research article)	Under review- Submission ID 2458ac4e-283a-4f23-b3ce-f6ce003652b3
A.Gokul AP-CSE, PCE	International Journal of Research and Analytical Reviews (IJRAR)	Detecting Brain Tumor On Panoptic Segmentation	ISSN:2348-1269
S. Keerthika AP-CSE, PCE	5th International Conference on Recent Innovations in Engineering and Technology	AI – Enabled Fitness Analyzer	ISBN: 978-81-970563-5-2
S.VinothKumar AP-BME, PCE	IJRERD(Journal) & 17.04.2024	Multifunctional Gadolinium Nanoparticle-Based Scaffold for Enhanced Bone Cancer Treatment and Regeneration	ISSN:2455-8761
S. Keerthika AP-CSE, PCE	5th International Conference on Recent Innovations in Engineering and Technology	Autism Spectrum Disorder diagnosis: Integrating Multimodal Data using Machine Learning for Enhanced Detection	ISBN: 978-81-970563-5-2
P. Prakash AP-CSE, PCE	National Conference on Innovation in Scientific Computing and Optimization Techniques, Er.Perumal Manimekalai College of Engineering	Strengthening Cyber Defense: Event Driven Artificial Neural Network	ISSN: 2320 -2882
R. Murugesan AP-CSE, PCE	International Conference on Innovative Computing, Intelligent Communication AND Smart Electrical Ssytems	An Efficient Task of Floading Mechanism using Generic Operator Adaptive Firefly Algorithm (GOAFA) in an Edge – Cloud Environment	2023
R.Shamli AP-BME, PCE	ICRIET-24 & 22.04.24	Characterization and synthesis of banana fiber scaffold dual responsive drug delivery in breast cancer	ISSN 2582-7421

Name of the Faculty with designation	Journal / Patent Name	Title of the Journal / Patent/ Article	Reference No.
K.Poonkodi AP-BME, PCE	ICRIET-24 & 22.04.24	Synthesis of silver nanoparticle using moringa oleifera leaves for antibacterial activity	ISSN 2582-7421
K.Gokulnath, AP AP-AERO, PEC	Patent	Hexagonal Solar Still	202441030909 A
K.Gokulnath, AP AP-AERO, PEC	Patent	Hexagonal Solar Still	202441030909 A

Student Achievements and Awards

Name of the Student	Name of the Programme	Venue and Date	Name of the Event	Position / Place
R.Janani M.Kavipriya III-EEE, PEC	Project Presentation	Erode Sengunthar Engineering College, Erode.	Project Presentation	II
Ms.R.Sharumathi IV-Civil, PEC	ISTE Best Student Award	P.S.R Engineering College, Sivakasi	ISTE Best Student Award	ISTE Best Student Award
R.Sharumathi, IV-Civil, PEC	ISTE Best Student Award	Indian Society for Technical Education	ISTE Best Student Award	ISTE Best Student Award
P.N.Thenswetha IV-Civil, PEC	ISTE Best Student Award	Indian Society for Technical Education	ISTE Best Student Award	ISTE Best Student Award
I.Haarshaa IV-BIO TECH, PCT	ISR	IV-BIO TECH, PCT	Ullas Confluence 2024	-
S.Arul P.Sethupathy III-BIO TECH, PCT	Code Breaking	JCT College of Engineering and Technology, Coimbatore 03.04.24- 04.04.24	Code Breaking	I Prize
R.Neelavathi M.Saranya C.Astalakshmi R.Monisha III-BIO TECH, PCT	Paper Presentaion Title : Biofilm	JCT College of Engineering and Technology, Coimbatore 03.04.24- 04.04.24	Title : Biofilm	III
S.Mahima K.Yuvashri C.Santhiya S.Sabitha III-BIO TECH, PCT	Paper Presentaion	Adhiyamaan College of Engineering, Hosur	Insecticidal activity of polyhedral Formulation against Harmonia axyridis	III

Student Journal Publications and Patents

Name of the Student	Journal / Patent Name	Title of the Journal / Patent/ Article	Reference No.
P.Balaji IV-BME	IJNIET	Emotion Recognition based Smart Baby Monitoring System using Machine Learning and Raspberry PI	ISSN:2319-63191
T.Suriynivash N.girinath V.Vinothkumar IV-BME	IJRERD	Multiple instance learning for diabetic retinopathy classification	ISSN:2455-8761
T.Suriynivash N.girinath V.Vinothkumar IV-BME	IJRERD	Multiple instance learning for diabetic retinopathy classification	ISSN:2455-8761

RESEARCH PAPER WRITING TOOLS AND RESOURCES

Academic writing can be a daunting and time-consuming process, but with the help of the right tools you can make your paper writing much easier.

In this article, you get familiarized with 8 tools and resources that will help you work better and smarter when writing a research paper.

1. Taylor & Francis downloadable comprehensive free
   guide:Writing your paper
2. Todoist: A to-do list to organize your work
3. Everynote: As a research norebook
4. Grammarly: Could based typing assistant
5. Ref&White: Look up and learn while writing you paper
6. Hemingway Editor:Refine your work to be bold and clear
7.Taylor & Francis downloadable article and journal templates
8. Taylor&Francis 10-point checklist to guide you writing process

1. Writing your paper: a comprehensive free guide

If you're ready to start writing your paper, **Taylor & Francis free guide** is a useful tool to help you through your various writing stages. This resource will guide you through writing your paper from start to finish, including preparation and setting your structure, to writing every section of your paper and preparing it for submission. (You can download this guide from: https://authorservices.taylorandfrancis.com)

2. Todoist

It is a task management app that can help you stay organized during the writing process. Todoist can be used for planning, scheduling, and building the outline for your personal, work, and academic tasks. Part of its appeal is its simple functionality and portability.

It can be used on your phone, tablet, and computer with great collaboration and integration capabilities. This could be like having your personal assistant with you at all times. Todoist is free to use, but for higher project limits or additional features like reminders, you can decide if you need an upgraded paid version.

3. Evernote

If you're looking for a productive way to take notes and sort through your research materials, Evernote can be a useful tool to consider. You can organize your research by creating a notebook structure to keep similar notes together. You can also make your notes more useful by adding texts, images, and documents.

Another useful feature is capturing audio notes with the inbuilt recorder. It's easy to share and discuss your notes and notebooks, without having to leave the Evernote app. Keep in mind you can also seamlessly create Todoist tasks from Evernote notes, and vice versa to double your productivity. The basic version of Evernote is free and lets you create unlimited notes but with a limitation of storage space to 60MB a month. For more storage you will require to upgrade to a paid subscription plan.

4. Grammarly

Grammarly is a typing assistant that uses artificial intelligence to identify any errors in spelling, grammar, and punctuation, then suggests an appropriate replacement. When you install it on your laptop or computer, it will flag any errors in your text and provide you with an alternative, or even prompt you to remove particular phrases. Keep in mind that your paper might contain technical terms or phrases that Grammarly may not understand, which could be flagged as errors. So, make sure you look over the prompts from Grammarly before accepting changes.

The basic function of Grammarly is free, which helps identify most spelling and grammar errors, but for a more robust check on everything you write, a paid upgraded premium version is available.

5. Ref-n-Write

High-quality research deserves proper academic writing. Ref-n-Write is a tool with an impressive library of phrases used in academic writing. Using artificial intelligence technology, the tool provides details on choosing the right academic phrase, cross-referencing previous work, suggesting new ideas, and more.

Non-native English speakers may find this tool helpful to paraphrase their text and improve their English writing skills through practice. To test out the referencing, paraphrasing and phrase bank tools, you can sign up for a free trial.

6. Hemingway Editor

Hemingway Editor is an editing tool that can help you refine your writing, pinpointing areas of your work that will affect readability. Clear writing is important to communicate your research effectively to readers.

This tool also guides you on how to improve the sentences in your document. It highlights sentences that are hard to read, words or phrases with simpler alternatives, passive voices, as well as the number of adverbs present in your work. Hemingway App has a free version but it also has a paid version with additional features for publishing, formatting and more.

7. Taylor & Francis downloadable Article and journal templates

To save your time, T& F downloadable article and journal templates are the useful resources for formatting your manuscript. Our template will help you format your work correctly for submission, and make sure you have the information the target journal expects to see.

Make sure you download the relevant template and apply it to your research paper, following the instructions provided. Remember to follow the instructions regarding your specific research article's format. T & F offers a guide on the variety of different types of research articles.

8. T & F's 'Writing your paper checklist'

This checklist is a useful resource to help you quickly review all you need to write an effective paper and the checklist is downloadable. Whether you are writing a paper for an assignment or to submit to a journal, this list contains important information on what makes a good research paper.
Source: https://authorservices.taylorandfrancis.com/blog/get-published/8-useful-research-paper-writing-tools-and-resources

Alumni Testimonial

PAAVAI ENGINEERING COLLEGE

JERENEY JOHNSON
B.E - MCTS, 2013 - 2017
Software developer
Aton green Storage, Italy

Completing the program gave me the confidence to lead in a way that I never could have before. Having spent the last decade working in operations, the program gave me important knowledge about other facets of business: Sales, Accounting, Business Intelligence, and the function of the C-suite. This new knowledge has helped me to up level my role, lead new projects, and secure better pay. I appreciate the commitment that PEC brings to providing rigorous and applicable coursework, and to building connections that will open new doors for PEC students.

PAAVAI COLLEGE OF ENGINEERING

Er.K.AAKASH
B.E - EEE, 2017 - 2021
Tech Mahindra
Coimbatore

I was a student of Electrical and Electronics Engineering Department. My college gave a great opportunity. The environment created by the staff, students and administrators at Paavai College of Engineering has helped in preparing me for the real world. In addition to subject knowledge, I honed my life skills, soft skills and people skills. They encouraged me to participate in sports and cultural activities which made my journey little relaxed and fun with education. The attention and respect I gain outside when I tell my college name speaks volumes about this institution.

PAAVAI POLYTECHNIC COLLEGE

JAMBUKUMAR KULANDAIVEL
DCSE - 2008-2011
Qualcomm India Private Limited
Chennai

' My time at Paavai Polytechnic College was life-changing and got lot of motivations from all the levels of faculty members. I got good practical knowledge in parallel to theory. I understood the meaning and value of discipline. If you want a college that's not just about grades, but about helping you become your best version, Paavai Polytechnic College is the place to choose. All the very best!

PAVAI COLLEGE OF ARTS AND SCIENCE FOR WOMEN

SOUNDHARYA JAGANATHAN
B.A - English - 2020-2022
Communication and Life Skills Trainer in
Intensive English Training Resourse, Salem

I am Soundharya Jaganathan, alumnai of Pavai Arts and Science College for women in the Department of English. Currently, I am working as a Communication and Life Skill Trainer in Intensive English Training Resource, Salem. As I reflect on my time here and the journey that has led me to where I am today, I am filled with gratitude and a sense of nostalgia to the Principal of PASCW, HOD, tutors and staff members.

The Chairman and Correspondent of Pavai institution hold a special place in my heart, because of the knowledge and skills for the transformative power of education. The Department of English, in particular, played a significant role in shaping my intellectual curiosity and passion for literature. As alumni, I have a responsibility to uphold the values instilled in me by Pavai College and to contribute positively to society. As proud alumni of Pavai College, I can continue making a positive impact in our communities and beyond.

ENGLISH CORNER

Sentence Starters

Words for additional ideas

Also	Likewise	Additionally
Along with	Furthermore	Indeed
In Fact	In Addition to	Another reason
Moreover	In Addition	Indeed
Coupled with	Again	As well as

e.g. I enjoy gardening, <u>another reason,</u> it's good exercise.

Words that show cause

Accordingly	For this reason	So
As you can see	Since	This is why
Otherwise	Thereupon	Consequently
Therefore	Because	Hence
As a result	For this purpose	Subsequently

e.g. The committee reviewed the documents and <u>thereupon,</u> decided to accept the proposal.

Words that show contrast

Comparatively	In Comparison	On the contrary
Instead	Yet	Although
Whereas	Rather	In contrast
On one hand	However	On the other hand
Even though	Nevertheless	Otherwise

e.g. They do not reject modernity completely; <u>on the contrary</u>, they embrace the modern world.

e.g. <u>On one hand</u>, I think the price is fair, but <u>on the other hand</u>, I really can't afford to spend that much money.

<u>Words that add emphasis</u>

Admittedly	Certainly	Obviously
Usually	Generally speaking	For the most part
Granted	Undoubtedly	Especially
No doubt	As a rule	In this situation
Above all	Of course	Particularly

e.g. Her points were, <u>for the most part</u>, fairly convincing.

Words to show time and order

Firstly.. Seconly.. Thirdly..	Finally
In the first instance	To begin with
Next	After this, afterwards

e.g. We had tea, and <u>afterwards</u> we sat in the garden for a while.

Paavai in Press

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)