RTC PULSE

Rathinam Technical Campus-Monthly Newsletter

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The Academic Team

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THE RTC FAMILY

"We don't just work together — We grow, connect, and succeed as one family."

RATHINAM

Behind the pages- Editorial Leads

Chief Editor

**Ms.Sarah Ruby
Christina Alexander**

Head Digital Transformation |
International Relations Manager

Student Editor

Mr.R.Nirmalkumar

II B.Tech.Biotechnology

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Vibe-Check Rathinam

A vibrant gathering to celebrate our rich cultural heritage and foster unity through joy, music, and shared traditions within our campus community.

The Alpha Circle

Empowering students to bridge the gap between academic learning and their dream corporate careers.

Scholastic Stars

Honoring exceptional students who demonstrate outstanding academic mastery, intellectual curiosity, and a consistent drive for excellence.

The Academic Vanguard

Recognizing distinguished faculty who pioneer educational excellence, innovative research, and visionary leadership within our department

Global Careers

A glimpse of RTC alumni who shine across the globe

Vibe-Check Rathinam

RGF 2026: INDIA'S MEGA TECHNO-CULTURAL FEST

The excitement is building as we approach the 5th Chapter of the Rathinam Grand Fest (RGF), scheduled from March 3rd to 7th, 2026. This Pan-India mega techno-cultural fest is set to be our most ambitious yet, featuring an incredible lineup of 100+ technical events, 50+ cultural shows, and 60+ workshops. From high-energy hackathons to 30+ startup showcases, RGF 2026 will be a vibrant celebration of talent, creativity, and student leadership.

Beyond competitions, RGF 2026 fosters growth through "Star Talks" and "R-Talks". Students met industry icons, gaining leadership insights while reaffirming Rathinam's commitment to nurturing talent, innovation, and student leadership.

THE PULSE OF INNOVATION: RGF 5TH CHAPTER RECAP

RGF 2026 is designed to be a platform for both inspiration and entertainment. Experience signature segments like "Star Talks" and "R-Talks", where you can meet industry icons and gain invaluable insights into professional success. The festivities will also feature the "Velvet Voltage" fashion show, the "Dazzle Derby" musical concert, and a thrilling "Vibe Vortex" DJ night. Clear your calendars for March—this is one celebration you won't want to miss!.

The Alpha Circle

PLACEMENT HIGHLIGHTS

FEBRUARY '26

History
Repeats Itself.
Only at a Higher Level.

A Legacy
Reaffirmed.

With an offer of
₹3Cr
Per Annum

K.B.Mohanarajan
M.E. Bio-Metric and Cyber Security
Department of CSE

Placed as Senior AI Architect at a Top MNC

At Rathinam, We Shape Futures. Standards Keep Rising.

BREAKING RECORDS: A HISTORIC ₹3 CRORE ACHIEVEMENT

ENGINEERING THE LEADERS OF TOMORROW

Rathinam Technical Campus proudly celebrates K.B. Mohanarajan, M.E. Bio-Metric and Cyber Security, for securing a historic ₹3 Crore per annum offer. Placed as a Senior AI Architect at a Top MNC, his success reaffirms our legacy of high-value career excellence and commitment to shaping global industry leaders.

Excellence Recognized: Rathinam's National Milestone.

- Rathinam Technical Campus is recognized among India's Dream Institutions, celebrating our commitment to innovation, academic excellence, and shaping future-ready global leaders.

- This honor belongs to our community. We thank our management, faculty, staff, students, and alumni. Your passion and brilliance build our foundation, elevating Rathinam's reputation on the national stage today.

Dream Institutions

This recognition fuels our future. We remain committed to bridging industry gaps through innovation, nurturing leaders, and supporting every dream. Together, we aren't just witnessing the future—we are actively building it.

Would you like me to combine these shortened sections into a single, concise social media flyer?

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TECHNICAL CAMPUS
(AUTONOMOUS)

rathinamtechnicalcampus.com

Congrats to our Students Placed at **CLOUD AMBASSADOR**

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B.E CSE

NANDHINI S
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B.E MECH

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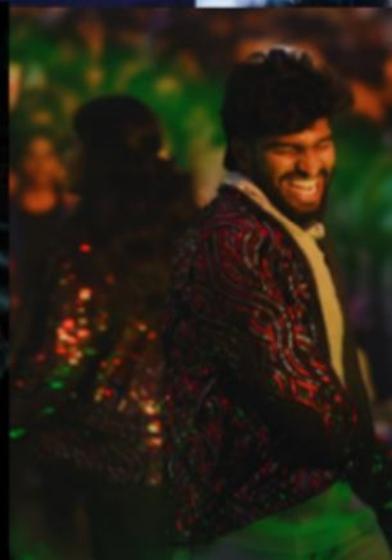
The Scholastic Stars

Feb–STUDENT ACHIEVEMENTS

Celebrate life

RATHINAM

Engineering Excellence: National Podium Finish at Moto Cross Championship

Rathinam Technical Campus proudly celebrates the achievement of its student teams, Throttle X and VoLT-X, who secured the 2nd Runner-Up position in a prestigious National Moto Cross competition. This milestone reflects their ability to transform advanced engineering concepts into high-performance machines on a national platform.

The project demonstrated excellence in powertrain optimization and integrated safety systems, ensuring both speed and reliability during demanding championship rounds.

STUDENTS & DEPT.

Mechanical -Abishek R, Arjunviswa S, Bowin Kumar R, Deva Venketavardhan M, Jeva Sri Nathan R, Aravinth A L, Ganesh Karthikeyan R

ECE -Nagasundaram, Tejas Kishore

Mechatronics -Abinesh V, Gladrin Garie M, Madhan Kumar R, Poovarasan S N, Prakashraj B, Sabari Nathan M, Sanjay S

This success was driven by the seamless collaboration of 16 second-year students, highlighting the power of multidisciplinary teamwork and innovation at Rathinam

TEAM
Throttle X & VoLT-X

2ND RUNNER UP

MOTO CROSS

THE POWER OF R: ADVANCED COMPUTATIONAL ANALYTICS FOR ENGINEERING

R programming is rapidly emerging as a cornerstone of modern engineering and scientific research. Far beyond its traditional roots in statistics, R provides a robust framework for signal processing, predictive modeling, and managing large-scale datasets with high efficiency. By integrating R into the academic and research workflow, engineers can move beyond static calculations toward dynamic, data-driven insights.
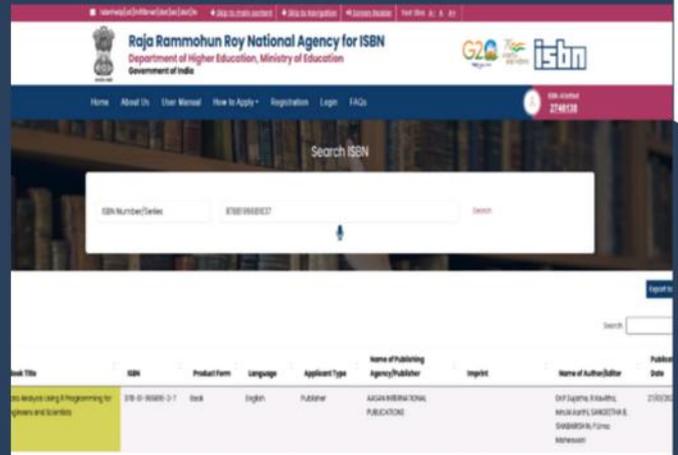
SRISHTI 2025 12TH NATIONAL LEVEL

R-TECH participated in SRISHTI 2025, the 12th National Level Technical Project Exhibition held on 23–24.02.2026 at Saintgits College of Engineering. Led by Sudharsan D (IT, 2nd year), the team presented "AQUNEX," with members from CSE, Biotechnology, and IT departments, showcasing interdisciplinary innovation and technical excellence.

MECHANICAL ENGINEERING STUDENTS SECURE THIRD PRIZE AT SDG HACKATHON

Rathinam Technical Campus is immensely proud to announce that Mr. Milan from II Year Mechanical Engineering, along with his dedicated team, secured the Third Prize at the prestigious SDG Hackathon hosted by K.S.R. Engineering College. This achievement serves as a powerful testament to the technical talent and creative problem-solving capabilities fostered within our engineering departments.

The team's project focused on a sustainable wastewater treatment solution, a critical innovation that aligns with global environmental objectives. Their work was highly commended for its technical feasibility and practical approach to environmental responsibility,

DISTRICT LEVEL SPORTS COMPETITION ORGANIZED BY SPORTS DEVELOPMENT AUTHORITY OF TAMIL NADU

- Regional Recognition: Madhesh from III Year ECE demonstrated exceptional skill at the Tamil Nadu Chief Minister's Trophy, a prestigious competition organized by the Sports Development Authority of Tamil Nadu.

- Proud Achievement: Through intense focus and a strong sporting spirit, he successfully secured a prize, bringing honors to the Department of ECE and the entire institution.

- Balanced Dedication: This victory highlights his remarkable ability to maintain high standards of dedication and discipline in both competitive sports and his academic commitments.

BLOOD DONATION DRIVE

- The Department of Artificial Intelligence and Data Science, Rathinam Technical Campus, appreciates II Year students.

- Akash R, Mukesh S, and Gokila Krishnan M for their voluntary participation in a blood donation drive.

- Their noble act reflects compassion, social responsibility, and commitment to community welfare, inspiring peers toward meaningful humanitarian service.
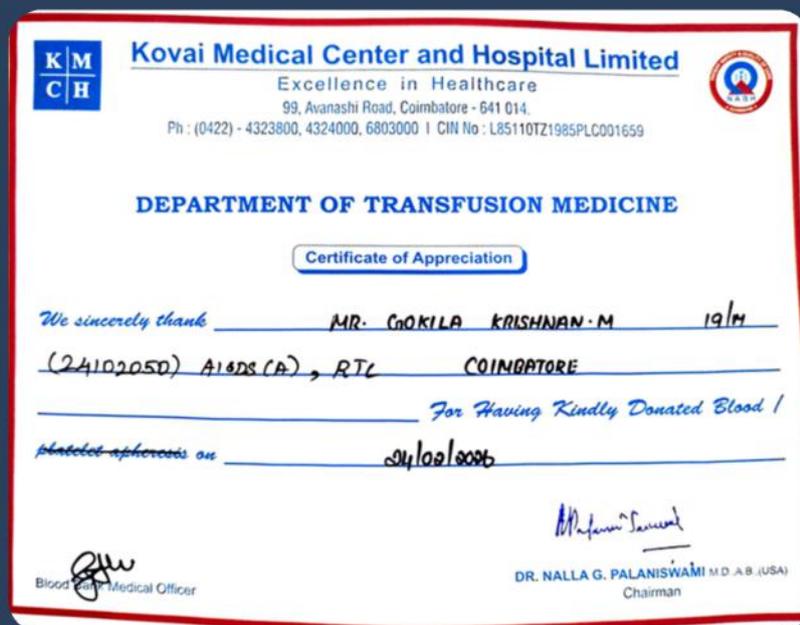
TALK WITH AI-STUDY 3X FASTER WITH NOTEBOOK LM

- AI Talk #2 – "Study 3x Faster with Notebook LM" introduced students to AI-powered note-taking, demonstrating features like smart summarization, automated organization, and efficient learning workflows.

- Participants learned to leverage Notebook LM for faster studying, improved revision, and enhanced academic performance, increasing awareness of AI-assisted productivity tools.

PROJECT EXPO-PROJECT EXPO CONDUCTED BY KARPAGAM ACADEMY OF HIGHER EDUCATION

ONLINE COURSE ON GOOGLE AI STUDIO, SOFTWARE ENGINEERING, AI INNOVATION

- Advanced AI Application Development: Successfully completed the "Build & Deploy Apps with Google AI Studio" certification through GUVI Geek Networks and HCL Technologies, mastering practical deployment strategies for Google AI.

- Core Software Engineering Foundations: Strengthened technical expertise in full-lifecycle development and architectural principles by earning the "CS302 – Software Engineering" credential from Saylor Academy.

- Second-year students Hariharapandiyan, Mohana Chandra, and Gavishwara secured 2nd Prize at the Project Expo conducted by Karpagam Academy of Higher Education.

- Their innovative project, strong technical proficiency, and effective teamwork impressed evaluators, showcasing creativity, problem-solving skills, and a commitment to academic excellence and emerging engineering advancements.

HACKATHON-GLOBAL MULTI-DISCIPLINARY HACKATHON

Surya Prasad and his 2nd Year ECE team secured 2nd Prize in the Global Multidisciplinary Hackathon conducted at SRM Institute of Science and Technology, Trichy. Their achievement reflects innovative design thinking, practical engineering skills, teamwork, and dedication toward developing sustainable, future-oriented technological solutions. Congratulations to the team on this remarkable accomplishment!

HACKATHON-HACKATHON CONDUCTED BY SRI ESHWAR COLLEGE OF ENGINEERING

- Second-year students Prakash, Mohana Chandra, and Bakirathan participated in the Hackathon conducted by Sri Eshwar College of Engineering.

- Their involvement showcased innovative thinking, technical proficiency, and strong teamwork.

- They demonstrated impressive problem-solving skills and creativity, reflecting dedication to hands-on learning and emerging engineering excellence.

IPL AUCTION" – INTESA 2K26

- **Competitive Performance:** MCA students Muthuraj I and Esakki Muthu from Rathinam Technical Campus secured the Second Prize in the "IPL Auction" event at INTESA 2K26, hosted by Sri Ramakrishna College of Arts & Science (Autonomous).

- **Core Competencies:** The duo demonstrated exceptional strategic planning and budget management skills while navigating a high-pressure competitive environment.

- **Analytical Excellence:** This achievement highlights their proficiency in teamwork and strong analytical thinking, showcasing their ability to make data-driven decisions under time constraints.

ONLINE COURSE ON GOOGLE AI STUDIO, SOFTWARE ENGINEERING, AI INNOVATION

The year 2026 has marked a significant milestone in professional development through the successful completion of three high-impact certifications. These credentials represent a deep dive into the intersection of artificial intelligence, modern software architecture, and strategic technical implementation, significantly broadening a robust toolkit for the evolving tech landscape.Microsoft's SOAR certification bridges technical skill and business strategy, leveraging automated intelligence to optimize acquisition processes and drive data-centric corporate decision-making.

Saylor Academy's CS302 reinforces mastery in Agile, requirements analysis, and system modeling, ensuring technical projects maintain structural integrity and code.

The Academic Vanguard
Feb–FACULTY ACHIEVEMENTS

RATHINAM

Next Generation Healthcare using Wireless Body Area Networks in Smart Cities

SEMINAR
WBANs for Smart City Healthcare

The Department of Electronics and Communication Engineering at Rathinam Technical Campus successfully organized a seminar titled "Next Generation Healthcare using Wireless Body Area Networks in Smart Cities" on 17 February 2026, from 3:30 PM to 4:30 PM in Room A208.

HIGHLIGHTS

HEALTHCARE

REAL-TIME

APPLICATIONS

The seminar, convened by Dr. M. Fathu Nisha, was delivered by Ms. Sarah Alexander, highlighting WBAN applications in healthcare.

Ms. Alexander explained WBANs, their real-time vital monitoring, remote healthcare benefits, improved diagnostics, timely interventions, and secure data transmission.

Attendees learned WBANs' technical, practical, and societal impact, fostering interdisciplinary research and bridging theory with real-world smart healthcare applications.

BOOK PUBLICATION

In February 2026, IOT Academy celebrated a proud academic milestone with faculty members publishing impactful book chapters in Artificial Intelligence, Commerce, and Management. Their scholarly contributions highlight innovation, ethical practices, digital transformation, and modern business strategies, reinforcing the institution's commitment to research excellence and knowledge advancement.

INNOVATIVE TEACHING WITH MACHINE LEARNING: TOOLS, TECHNIQUES, AND TRENDS

Mrs. K. Kavitha, Faculty/ECE, Rathinam Technical Campus, attended a six-day FDP on "Innovative Teaching with Machine Learning" at Jeppiaar Institute of Technology, enhancing AI pedagogy, ML tools, and teaching strategies for improved student engagement.

NATIONAL LEVEL FACULTY DEVELOPMENT PROGRAMME

Mr. S. Arul Raj, AP/ECE, successfully attended a one-week Faculty Development Programme on "Emerging AI Technologies for Academia" at Sproothy Engineering College, Hyderabad (27–31 January 2026). The programme covered AI in teaching, research tools, data analytics, intelligent learning systems, and ethical AI integration for academic excellence and institutional growth.

CODE TO CIRCUIT – PYTHON FOR ELECTRONICS MASTERY

The Department of Electronics and Communication Engineering, with the Exodia Club, organized a two-day technical event, "Code to Circuit – Python for Electronics Mastery," on 6–7 January 2026 at Rathinam Technical Campus. Resource person Mr. Gajendran Parthasarathy provided hands-on training on Python applications in electronics, enhancing participants' technical and problem-solving skills

OUTCOME-BASED EDUCATION (OBE) AND APPLICATION OF GEN AI IN TEACHING AND RESEARCH

N. Sudha actively participated in the One Day FDP on "Outcome-Based Education (OBE) and Application of Gen AI in Teaching and Research" held on 29 January 2026 at Mazharul Uloom College, Ambur. The programme highlighted OBE implementation, accreditation standards, and effective, ethical integration of Generative AI in teaching and research.

SEMINAR-INTERPERSONAL COMMUNICATION SKILLS

The event was convened by Dr. M. Fathu Nisha, Dean | SES, with coordination by HoD Mr. L. S. Karthick and faculty members.

The Department of Electronics and Communication Engineering organized a seminar on "Interpersonal Communication Skills" on 3 February 2026. Ms. Narmadha Veerapandian, Soft Skill Trainer, served as Resource Person.

PUBLICATION PIPELINES & IPR FUNDAMENTALS-FDP

Mrs. N. Sudha, Assistant Professor/ECE, completed a five-day online FDP on "Research Paper Crafting, Publication Pipelines & IPR Fundamentals" (19–23 January 2026), organized by Coimbatore Institute of Engineering and Technology. The programme enhanced her expertise in research writing, journal selection, publication ethics, indexing databases, and Intellectual Property Rights, strengthening academic publishing standards.

RESILIENT INFRASTRUCTURE AND ADVANCED DISASTER MANAGEMENT

Mrs. Kavitha, Faculty Member/ECE, participated in the AICTE-sponsored ATAL FDP on "Resilient Infrastructure and Advanced Disaster Management" (19–24 January 2026) at SRM Madurai College for Engineering & Technology. The programme emphasized resilient design, smart monitoring, climate adaptation, and innovative disaster management solutions, strengthening professional growth and societal commitment.

Adaptive Ai Recommendation Engine For Personalized Diet And Health Behavior Change

Dr. V. Veerakumaran[1], Anju M. A[2], K. Kavitha[3], Dr. M. A. Raja[2], Dr. Sheeba E[1], S. Pragadeswaran[4]

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Abstract:
Personalized dietary guidance and sustained health behavior change remain challenging due to individual variability in metabolism, lifestyle, preferences, and adherence patterns. This paper proposes an Adaptive Artificial Intelligence (AI) Recommendation Engine designed to deliver dynamic, personalized diet and health behavior interventions by integrating multi-modal user data, including demographic profiles, dietary intake, physical activity, physiological indicators, and behavioral feedback. The proposed system employs a hybrid learning framework combining machine learning–based nutritional profiling, reinforcement learning–driven recommendation adaptation, and explainable AI mechanisms to continuously refine dietary plans and behavioral nudges in response to user progress and compliance levels. A feedback-aware optimization module dynamically adjusts caloric intake, macro-nutrient distribution, and lifestyle recommendations while minimizing user fatigue and recommendation drift. Experimental evaluation using real-world and benchmark health datasets demonstrates improved adherence rates, dietary accuracy, and long-term behavior retention compared to conventional rule-based and static recommendation systems. The results indicate that the proposed adaptive AI engine offers a scalable, user-centric solution for personalized nutrition management and preventive healthcare applications.

Keywords: Adaptive Artificial Intelligence; Personalized Nutrition; Diet Recommendation System; Health Behavior Change; Reinforcement Learning; Machine Learning; Explainable AI; Preventive Healthcare.

JOURNAL ARTICLE – RESILIENT INFRASTRUCTURE & DISASTER MANAGEMENT

- Mrs. Kavitha, Faculty Member of the Department of Electronics and Communication Engineering at Rathinam Technical Campus, published a research article titled "Adaptive AI Recommendation Engine for Personalized Diet and Health Behavior Change" in the International Journal of Advanced Signal and Image Sciences, Vol. 12, No. 1, 2026.

- The study introduces an adaptive AI framework that combines machine learning and reinforcement learning techniques to generate personalized, data-driven recommendations for diet and health behavior modification.

- The research emphasizes the use of intelligent algorithms to analyze user data, optimize health outcomes, and encourage sustainable lifestyle changes, demonstrating significant potential in healthcare technology and personalized wellness applications.

MACHINE LEARNING BASED SMART HELMET IN MINING INDUSTRY

Mrs. Kavitha published a patent titled "Machine Learning Based Smart Helmet in Mining Industry", integrating ML, IoT sensors, and embedded systems to monitor hazards and provide real-time safety alerts.

PATENT APPLICATION PUBLICATION

Dr. M. Fathu Nisha, Dean – School of Engineering, has published a patent on an AI-driven hybrid thermal–solar energy system using phase-change nano-materials. The innovation enhances renewable energy efficiency through intelligent optimization and thermal management, supporting sustainable, high-efficiency power generation for future green energy solutions.

Faculty Achievements

Event / Publication Type	Title / Topic	Faculty / Participants	Key Highlights
Patent	Cognitive Self-Evolving Solar Energy Fabric with Neuro-Adaptive Photonic Reconfiguration for Autonomous Power Optimization	Ms. Nivetha M, Assistant professor Dept of ECE	Integrates AI, adaptive photonics, and neuro-adaptive control for autonomous solar efficiency optimization
	Machine Learning Based Smart Helmet in Mining Industry	Mrs. Kavitha, Assistant professor Dept of ECE	Integrates ML, IoT, and sensors to monitor mining hazards and provide real-time safety alerts
FDP	Recent Trends in Semiconductor Technology and Role of AI in Chip Design and Fabrication	Mr. S. Jeniton, Assistant professor Dept of ECE	Enhanced knowledge in AI-driven chip design, semiconductor advancements, and modern fabrication technologies
	VLSI Design and Methodologies	Ms. D. Madhumitha, Assistant professor Dept of ECE	Strengthened expertise in VLSI design, semiconductor technologies, and industry-oriented methodologies
	Five-Day Virtual FDP	Ms. Priyanga M, Assistant professor	Enhanced technical expertise and innovative teaching skills
Journal Article	Adaptive AI Recommendation Engine for Personalized Diet and Health Behavior Change	Mrs. Kavitha, Assistant professor Dept of ECE	AI-driven system delivering personalized diet and lifestyle recommendations

Event / Publication Type	Title / Topic	Faculty / Participants	Key Highlights
Chess Tournament	4th International FIDE Rating <1800	Mr. Karthick D, Assistant professor	Secured 4.5/9 points, earned merit place
Workshop	Modern Manufacturing Process Mastery	Ms. Priyanga M, Assistant professor	Strengthened industry-relevant manufacturing knowledge
Seminar	AI & ML for Disaster Management	Mr. Raja M (Coordinator: Ms. Roopini)	Insights on AI-driven disaster prediction and early warning systems
Paper Publication	Emotion Detection System for Online Learning	Mr. Suresh Kumar R Assistant professor	ML-based system detecting emotions via facial, voice, behavioral cues
NPTEL Recognition	NPTEL Discipline Star	Mr. Gajendiran Parthasarathi	Recognized for academic excellence and professional learning commitment
Book Chapter	Emotional Algorithms – Machines Understand Human Feelings	Mr. Madhankumar C, Assistant professor	Affective computing, ML, and NLP for empathetic AI systems
Paper Acceptance	Staged RNN & LSTM for Cyberbullying Detection	Dr. S. Uma, S. Priyadharshini, Mrs. S. Gokilavani, M. Vinu, M. Shanthini	Deep learning architecture for detecting cyberbullying severity

JOURNAL ARTICLE – RESILIENT INFRASTRUCTURE & DISASTER MANAGEMENT

- Mr. K. Dilli Babu, Faculty Member, co-authored the book "Wireless Sensor Networks and Edge Computing", published by PublicationMart on 17 February 2026 (ISBN 9789892179).

- This 424-page textbook provides an in-depth exploration of WSNs integrated with edge computing for real-time IoT applications in healthcare and agriculture.

- The publication offers valuable academic and research insights, emphasizing practical implementations, system design, and technological innovations in computer science and engineering domains.

Advancing Digital Safety: Deep Learning Architecture for Cyberbullying Detection

This sophisticated deep learning architecture advances digital safety by moving beyond keyword filtering to analyze nuanced linguistic patterns and emotional intent. Utilizing multi-layered neural networks, the system accurately detects cyberbullying and classifies its severity, providing a high-precision, scalable solution for identifying online harassment and fostering safer, more secure digital environments.

IAENG PROFESSIONAL MEMBERSHIPS: MRS. ROSALIN NANCY & MRS. GOKILAVANI

Rosalin Nancy R and S. Gokilavani have attained professional membership in the International Association of Engineers (IAENG). This affiliation fosters global collaboration, research excellence, and innovation. By engaging in this interdisciplinary network, they enhance knowledge exchange, staying at the forefront of engineering advancements while contributing to the global scientific community.

RTC MECHANICAL AND CAUVERY EXTRUSIONS SIGN A LANDMARK MOU TO ENHANCE INTERNSHIPS, RESEARCH, AND PLACEMENTS.

On February 18, 2026, the Department of Mechanical Engineering at Rathinam Technical Campus formalized a significant partnership by signing a Memorandum of Understanding (MoU) with Cauvery Extrusions Private Limited. This strategic alliance is designed to bridge the gap between academic theory and industrial practice, creating a robust ecosystem for professional growth. By aligning the department's curriculum with the evolving needs of the manufacturing sector, this collaboration ensures that students are exposed to real-world engineering challenges and cutting-edge industrial processes.
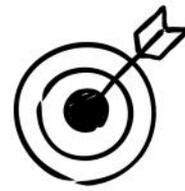
MoU with Cauvery Extrusions Pvt. Ltd.

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