



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION



SCHOOL OF ENGINEERING AND TECHNOLOGY

NEWSLETTER

PRISM

APRIL - JUNE 2026





 **K.R. MANGALAM UNIVERSITY**
THE COMPLETE WORLD OF EDUCATION

*Welcomes
Students*



K.R. MANGALAM UNIVERSITY

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FROM THE EDITOR'S DESK

Dear Readers,

As we welcome you to the second quarter edition of 2026 of PRISM, the newsletter of the School of Engineering and Technology (SOET) at K.R. Mangalam University, we extend our warm greetings for the year ahead. The beginning of a new year offers a meaningful opportunity to reflect on our recent achievements while setting the tone for continued growth, innovation, and excellence.

Over the past few months, SOET has continued to strengthen its commitment to academic distinction by fostering innovative research, adopting modern teaching methodologies, and promoting interdisciplinary learning. Our focus remains on creating an environment where curiosity thrives, ideas are encouraged, and both students and faculty are empowered to explore new frontiers in technology and knowledge.

This edition of PRISM brings together inspiring contributions from our students, alumni, and faculty. From technical insights and creative expressions to reflections on emerging technologies and recent events, each piece reflects the vibrant intellectual spirit that defines our community. We take great pride in the diversity of thought and talent within SOET—something that continues to shine through the remarkable accomplishments and initiatives of our students.

As you explore this issue, we hope you feel connected to the energy, dedication, and vision that drive SOET forward. May this edition not only celebrate our shared journey so far but also inspire fresh ideas and aspirations for the months ahead.

We thank you for being an integral part of the SOET community and for your continued support.

Happy Reading!

PROF. (DR.) SHWETA BANSAL

PRISM- Chief Editor
School of Engineering and Technology
K.R. Mangalam University



FROM THE EDITORS' DESK



MS. KRITI SHARMA

PRISM - Editor
School of Engineering and Technology
K.R. Mangalam University



MS. RUCHI SHARMA

PRISM - Editor
School of Engineering and Technology
K.R. Mangalam University

Dear Readers,

Welcome to the second-quarter 2026 edition of PRISM, the newsletter of the School of Engineering and Technology.

As we step into a new year, we are delighted to present an edition that reflects the vibrant ecosystem of technological advancement, research excellence, innovation, and the remarkable achievements of our faculty, students, and alumni.

The beginning of 2026 has already marked a promising start, with significant progress across diverse engineering disciplines. From new collaborations and Memoranda of Understanding to impactful technical events, research publications, and inspiring faculty contributions, this quarter showcases our institution's continued commitment to excellence. Through carefully curated articles, success stories, and insightful perspectives, PRISM captures these milestones and celebrates the collective efforts that continue to shape our academic community.

We extend our sincere gratitude to all contributors, authors, reviewers, and members of the editorial team whose dedication and creativity have made this edition possible. We also thank our readers for their continued support and encouragement, which inspire us to keep bringing you stories that reflect the spirit and accomplishments of our institution.

As we look ahead, we remain committed to fostering engineering excellence, innovation, and collaboration while celebrating the achievements of our community. We hope this edition informs, inspires, and encourages meaningful engagement with the exciting developments taking place across the School of Engineering and Technology.

Happy Reading!

WORDS FROM THE LEADERSHIP

Dear Readers,

It gives me great pleasure to extend my heartfelt congratulations and sincere appreciation to the editorial team on the release of the second quarter edition of 2026 of PRISM, the newsletter of the School of Engineering and Technology. Over the years, PRISM has grown into a distinguished platform that showcases the academic excellence, research initiatives, and creative potential of our faculty, students, and alumni.

As we begin a new year, this edition stands as a reflection of the University's continued commitment to innovation, quality education, and intellectual growth. It captures the dynamic spirit of the School of Engineering and Technology—where ideas are nurtured, research is encouraged, and learners are empowered to think critically and contribute meaningfully to society.

This issue also holds special significance as it sets the tone for the academic and professional aspirations of our students in the year ahead. It highlights not only their achievements but also their dedication, resilience, and readiness to embrace emerging opportunities and challenges in an ever-evolving global landscape.

I am confident that the strong foundation provided at K.R. Mangalam University will continue to guide our students toward excellence in their chosen paths. I extend my best wishes to each one of them for a successful and fulfilling journey ahead.

The continued success of PRISM is a testament to the collaborative efforts of our faculty, the enthusiasm of our students, and the vision of the editorial team. It embodies the spirit of innovation, scholarship, and shared purpose that defines our academic community.

Let us move forward with renewed energy and commitment, further strengthening the legacy of PRISM as a symbol of creativity, knowledge, and excellence at KRMU. My sincere congratulations to all contributors for making this edition both impactful and inspiring.

Warm Regards!

**PROF. (DR.) ANIL
KUMAR SAINI**

Vice Chancellor,
K.R. Mangalam University



FROM THE DEAN'S DESK

Dear Readers,

It is truly a pleasure to share my thoughts with you in this second quarter edition of 2026 of PRISM, the quarterly magazine of the School of Engineering and Technology (SOET) at K.R. Mangalam University. As we step into a new year, PRISM continues to stand as a vibrant reflection of the ideas, achievements, and aspirations that define our academic community.

Over time, PRISM has evolved into more than just a publication—it is a dynamic platform where students and faculty come together to showcase their technical expertise, creativity, and the diverse academic and co-curricular pursuits that shape SOET. It provides a meaningful space for young minds to express their ideas, challenge conventions, and cultivate a spirit of innovation and critical thinking that is essential in today's rapidly advancing technological landscape.

What makes PRISM particularly special is its ability to connect our present with our past. The continued engagement of our alumni, through their experiences and insights, adds depth and perspective to this publication. Their journeys not only highlight the strength of our academic foundation but also serve as a source of inspiration and motivation for our current students as they prepare to carve their own paths.

As we begin 2026, I am filled with optimism for what lies ahead. I encourage every student and faculty member to actively contribute, share their ideas, and make the most of this platform. It is through such collective participation that PRISM truly becomes a reflection of our shared vision and excellence.

I extend my heartfelt appreciation and congratulations to the editorial team for their dedication, creativity, and tireless efforts in bringing out this edition. Your commitment ensures that PRISM continues to grow as a beacon of knowledge, collaboration, and innovation within the SOET community.

Wishing you all an inspiring and successful year ahead.

PROF. (DR.) PANKAJ AGARWAL

Dean, School of Engineering &
Technology
K.R. Mangalam University



WORDS FROM IQAC COORDINATOR

Dear Readers,

It is with great pride and enthusiasm that I share my thoughts in this second quarter edition of 2026 of PRISM, the quarterly newsletter of the School of Engineering and Technology (SOET) at K.R. Mangalam University. Over time, PRISM has grown into a meaningful platform for intellectual engagement and creative expression, reflecting the academic vibrancy and co-curricular excellence that define our institution.

The journey of PRISM so far has been truly commendable. Each edition has provided students, faculty, and alumni with a valuable space to present their ideas, achievements, and innovations. These contributions not only celebrate the accomplishments of the SOET community but also reinforce a culture of continuous learning, collaboration, and forward-looking thinking. I extend my sincere appreciation to the editorial team for their dedication, creativity, and consistent efforts in enhancing the quality and reach of the newsletter.

At the Internal Quality Assurance Cell (IQAC), we believe that initiatives like PRISM play a vital role in strengthening academic quality and fostering a dynamic learning environment. The newsletter serves as a bridge connecting students, faculty, alumni, and industry, helping to build a cohesive and forward-driven academic community grounded in excellence and shared purpose.

As we begin this new year, I am confident that PRISM will continue to evolve and set new benchmarks through innovative ideas and committed teamwork. I encourage all contributors to actively share their insights, experiences, and achievements, ensuring that the newsletter remains a source of inspiration and a true reflection of the talent and potential within SOET.

On behalf of the IQAC, I extend my best wishes to the editorial team and all contributors for the continued success of PRISM. May it continue to inform, inspire, and celebrate the spirit of SOET throughout the year ahead.

Warm Regards!

**DR. SHIKHA
DUTT SHARMA**

Editor & IQAC Coordinator
K.R. Mangalam University



ABOUT SCHOOL: VISION & MISSION

ABOUT SCHOOL

The School of Engineering & Technology (SOET) at K.R. Mangalam University stands as a hub of academic excellence, innovation, and industry-oriented learning. Offering a wide range of undergraduate and postgraduate programs, SOET is committed to equipping students with strong technical knowledge, practical skills, and a professional mindset required to excel in the ever-evolving field of engineering and technology.

The School continues to align its vision with emerging global trends, focusing on cutting-edge technologies, interdisciplinary learning, and research-driven education. Our mission is to nurture competent, ethical, and forward-thinking engineers who are well-prepared to address real-world challenges and contribute meaningfully to society.

SOET brings together a distinguished blend of accomplished academicians, industry experts, and experienced researchers who collectively create a dynamic and engaging learning environment. Through hands-on training, industry collaborations, innovation-driven projects, and a strong emphasis on critical thinking, students are encouraged to explore, experiment, and excel beyond conventional boundaries.

With a continuous focus on quality education, skill development, and holistic growth, SOET strives to empower its students to become future leaders, innovators, and change-makers in the field of engineering and technology.

VISION

To excel in scientific and technical education with integrated teaching-learning, research, and innovation.

MISSION

- Creating a unique and innovative learning experience to enhance quality in the domain of Engineering & Technology.
- Promoting Curricular, Co-curricular and Extracurricular activities that support overall personality development and lifelong learning, emphasizing character building and ethical behaviour.
- Focusing on Employability through research, innovation and entrepreneurial mindset development.
- Enhancing collaborations with National and International organizations and institutions to develop cross-cultural understanding to adapt and thrive in the 21st century.

ADVISORY BOARD MEMBERS

The School of Engineering & Technology has established an advisory board to guide its developmental strategies, enhance industry alignment, and foster innovative research and educational excellence.

Purpose of the Advisory Board

The Advisory Board plays a vital role in supporting the School of Engineering & Technology by:

- Providing strategic guidance on engineering education, training, research, professional development, and community service.
- Recommending initiatives to boost public awareness and engagement with the school's programs, services, and resources.
- Acting as a liaison to address industry needs and assess the school's ability to respond effectively to those demands.

Advisory Board: Driving Strategic Excellence at SOET

The Advisory Board is a cornerstone of our academic and developmental strategies, contributing expert guidance across key areas to advance the School of Engineering and Technology's (SOET) mission:

- **Career Pathways:** Assisting in defining clear, robust career trajectories for students.
- **Industry Alignment:** Advising on policies and practices to ensure alignment with industry standards and educational goals.
- **Curriculum Relevance:** Keeping our curriculum responsive to industry demands and workforce expectations.
- **Community Engagement:** Promoting SOET programs and services across the community and the state.
- **Collaborative Agreements:** Facilitating articulation agreements with educational and training institutions.
- **Knowledge Sharing:** Enhancing student and faculty expertise through technology training, project mentoring, workshops, invited talks, and seminars.
- **Industry Connections:** Building relationships for internships, recruitment, and scholarships.
- **Research & Innovation:** Identifying opportunities for innovative research and fostering impactful partnerships for KRMU.
- **Outreach & Entrepreneurship:** Highlighting outreach needs and strengthening ties with entrepreneurial ventures.
- **Strategic Collaborations:** Establishing links with industries for Memorandums of Understanding, consultancy projects, and more.

The board's insights and efforts ensure that SOET remains a hub for academic excellence and innovation, fostering success for both students and the broader community.

The distinguished members of the SOET Advisory Board are listed below:

- Prof. (Dr.) P. S. Grover- Former-Professor, Dean, Director, and HoD, Delhi University. Former-Director General at GGS Indraprastha University.
- Prof (Dr.) B. Chandra- Adjunct Professor, Indian Institute of Technology, Delhi.
- Dr Sanjeev Kumar Varshney- Former-Head, International Scientific Cooperation. Department of Science & Technology, Government of India
- Prof. (Dr.) Brij B. Gupta. Director, International Center for AI and Cyber Security Research and Innovations (CCRI) & Distinguished Professor. Department of Computer Science and Information Engineering (CSIE) Asia University, Taiwan
- Syed Afzal Murtaza Rizvi- Professor, Department of Computer Science, Jamia Millia Islamia, New Delhi.
- Dr. Sharat Kaushik- Director NGF Group of Colleges.
- Mr. Subhajit Bhattacharya- Associate Vice President, Accenture
- Usha Jagannathan- Director for AI Products, IEEE, USA
- Rajinder Chitoria- Data Scientist and Director at Froyo Technologies (P) Ltd.
- Mr. Siddhant Verma- Lead (AI, Data Science and BI team)
- Dr. Kamal Rawal- Head of Department & Professor. Center for Computational Biology and Bioinformatics, Amity University, Noida

OUR ACHIEVERS: FACULTY



Dr. Yogita Yashveer Raghav, Member Secretary, Centre of Excellence – Cloud Computing, School of Engineering & Technology, K.R. Mangalam University, received an Appreciation Letter from Government Polytechnic, Indri in recognition of her valuable contribution to the successful organization of the 5-Day Student Exchange & Technical Training Program conducted under the MoU between the two institutions.

The recognition highlights her commitment to fostering academic collaboration and creating meaningful learning opportunities for students. The programme provided participants with hands-on exposure to emerging technologies, practical training, and industry-oriented learning experiences, helping bridge the gap between theoretical knowledge and real-world applications.

This achievement reflects the collective efforts of the organizing team and reinforces the university's dedication to strengthening industry-academia partnerships, promoting experiential learning, and nurturing technical excellence among students. The appreciation serves as a testament to the impact of collaborative initiatives in enhancing students' professional and technical competencies.



GOVERNMENT POLYTECHNIC, INDRI

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Ref. No. 113

Date 11/5/26

APPRECIATION LETTER

To,
Dr. Yogita Yashveer Raghav
Chairperson, COE-Cloud Computing
K.R. Mangalam University

Subject: Appreciation for Outstanding Leadership and Successful Organization of the 5-Day Student Exchange Program

Dear Dr. Yogita,

It gives us immense pleasure to express our sincere appreciation for your outstanding efforts in successfully organizing and coordinating the **5-Day Student Exchange & Technical Training Program** conducted under the **MoU between K.R. Mangalam University and Government Polytechnic, Indri**.

Your dedication, leadership, and commitment towards academic excellence played a significant role in making this program highly impactful and enriching for the students. The sessions conducted under your guidance greatly contributed towards enhancing students' technical knowledge, practical exposure, innovation skills, and awareness of emerging technologies including Artificial Intelligence, Cloud Computing, Website Development, and Digital Tools.

The program not only strengthened institutional collaboration but also provided students with valuable learning experiences, motivation for skill development, and exposure to industry-oriented technologies, aligned with the vision of innovation and self-reliant education.

We truly appreciate your continuous efforts in promoting academic innovation, experiential learning, and student development. We look forward to your continued support and contribution to organizing such impactful initiatives in the future.

Wishing you continued success in all your endeavors.

Warm regards,


Principal
Govt. Polytechnic, Indri (Nuh)
Principal
Govt. Polytechnic
Indri (Nuh)

OUR ACHIEVERS: STUDENTS

BEST PROJECT AWARDS CEREMONY 2026: CELEBRATING INNOVATION AND ACADEMIC EXCELLENCE

The School of Engineering and Technology (SOET), K.R. Mangalam University, successfully organized the Best Project Awards Ceremony on 24 April 2026 to recognize and celebrate the outstanding achievements of third-year B.Tech students. The event, conducted under the aegis of the Internal Quality Assurance Cell (IQAC) and KRMU Incubation Center, highlighted innovation, technical expertise, and dedication demonstrated by students across specializations. The ceremony

acknowledged exceptional project work in domains such as CSE (AI/ML) and CSE Core, reflecting the university's commitment to fostering a culture of research-driven learning and practical application of knowledge. The event was guided by esteemed faculty, including Prof. (Dr.) Pankaj Aggarwal, Dean, SOET, along with project coordinators Dr. Swati Gupta and Dr. Meenu Vijarana, whose mentorship played a pivotal role in shaping students' academic and technical growth.

The awards recognized multiple students for their exemplary performance, with Khushbu Yadav, Roopak, Priya Dagar, and Sanskriti Priyadarshini securing the first position in their respective categories, while Suyash Sahu, Navneet Kumar, Nishtha Chauhan, and Prateek Pun achieved the second position. The third position was awarded to Pihu Pandey, Mohit, Prabhat Nagar, Payal Pal, and Diksha Pal for their commendable contributions. The ceremony not only celebrated academic excellence but also encouraged students to continue pursuing innovation and excellence in engineering and technology. By recognizing these achievements, the event reinforced the importance of project-based learning and inspired students to develop impactful, industry-relevant solutions, thereby strengthening their preparedness for future professional challenges.



Group photograph with winners

RESEARCH & INNOVATION

BOOK PUBLICATION (APRIL TO JUNE 2026)

1. Dr. Pankaj Agarwal, Mr. Rupesh Kumar Tipu published a book titled as- ' Full Stack Web Development with React, Angular, Node.js, and DevOps 'by BPB Publications publication E-ISBN number- 9789365895346 and P-ISBN- 9789365891249 published on 14th April 2026
2. Dr. Surabhi Shanker published a book titled as- ' Business Analytics with R Studio' by Galgotia Publishing Company publication E-ISBN number-and P-ISBN- 978-93-90980-84-0 published on 1st April 2026

JOURNAL RESEARCH PAPER PUBLICATION (APRIL TO JUNE 2026)

1. Dr. Ankush Mehta-Photocatalytic degradation of azo dye assisted by Fe₂O₃/FeS₂ fabricated on biomass-derived nano biochar: Experimental and kinetic evaluation in Elsevier, by Materials Chemistry and Physics with E-ISSN/ISBN1879-3312-0254-0584 published on 8th June 2026
2. Dr. Ankush Mehta-Nanostructured implants for enhanced integration and localized therapy in Tabriz Univ Medical Sciences & Health Services, Daneshghah St, Tabriz, Iran, 51664-14766, by Bio Impacts with E-ISSN/ISBN 2228-5660-2228-5652 published on 8th June 2026
3. Mr. Rupesh Kumar Tipu -A Systematic and Critical Review of Ensemble, Hybrid, and Stacked Learning Models for Predicting the Compressive Strength of Cement-Based Mortars in Springer, by Archives of Computational Methods in Engineering with E-ISSN/ISBN1886-1784-1134-3060 published on 6th June 2026
4. Dr. Meenu-Machine Learning and Deep Learning Applications in Oral Surgery and Dental Sciences in Riset Publishing Services LLC, by European Journal of Prosthodontics and Restorative Dentistry with E-ISSN/ISBN2396-8893-2396-8893 published on 2nd June 2026
5. Mr. Rupesh Kumar Tipu, Dr. Sagar Paruthi-Advances in Machine Learning for Predicting Compressive Strength of High-Performance Concrete: A Review in Springer, by Iranian Journal of Science and Technology, Transactions of Civil Engineering with E-ISSN/ISBN2364-1843-2228-6160 published on 28th May 2026
6. Dr. Ankush Mehta-Prediction of unconfined compressive strength of fly ash and waste paper sludge stabilized clayey soil using explainable machine learning in Springer, by Scientific Reports with E-ISSN/ISBN2045-2322- published on 6th April 2026
7. Dr. Ankush Mehta-Electrochemical and DFT/MD simulation studies on expired temozolomide drug as an efficient corrosion inhibitor for mild steel in 1 M H₂SO₄ in Springer, by Chemical Papers with E-ISSN/ISBN2585-7290-0366-6352 published on 27th May 2026

8. Dr. Surendra Kumar Yadav-Flexural and impact properties of sheet type α -MnO₂ epoxy nanocomposites in Springer Nature, by Discover Materials with E-ISSN/ISBN2730-7727- published on 30st May 2026
9. Dr. Surendra Kumar Yadav-Exergetic and Environmental Sustainability Analysis of Second-Generation Hybrid Biodiesel Blends with α -Al₂O₃ Nano-additive in Springer Nature, by Environmental Sciences Europe with E-ISSN/ISBN2190-4715-2190-4707 published on 29th May 2026
10. Shahid Ahmad Wani-Robotic systems in internet of things: addressing security challenges through threat modeling and penetration testing in Springer Nature, by Scientific Reports with E-ISSN/ISBN2045-2322- published on 20th April 2026
11. Dr. Ankush Mehta-Micelle-Assisted Lewis and Bransted Acid Catalysis: A Review Towards Greener and Efficient Synthesis of Polycyclic and Heteroaromatic Compounds in MDPI AG, by MOLECULES with E-ISSN/ISBN1420-3049- published on 8th May 2026
12. Dr. Surendra Kumar Yadav-Experimental Study on Performance and Emissions of Nano-Additive Enhanced Waste Vegetable Oil and Polarity Fat Blends at Various Compression Ratios in Springer Nature, by Environmental Sciences Europe with E-ISSN/ISBN2190-4715-2190-4707 published on 23rd May 2026
13. Mr. Rupesh Kumar Tipu, Dr. Sagar Paruthi, Ms. Rishika Mehta-Integrating large language models with epidemiological data for antigenic drift monitoring and influenza A/B forecasting in Springer, by Journal of Ambient Intelligence and Humanized Computing with E-ISSN/ISBN1868-5145-1868-5137 published on 30th April 2026
14. Mr. Rupesh Kumar Tipu, Dr. Sagar Paruthi-Bayesian-optimized explainable machine learning framework for predicting reinforced concrete beam ultimate load-carrying capacity in Springer Nature, by Asian Journal of Civil Engineering with E-ISSN/ISBN2522-011X-1563-0854 published on 5th April 2026
15. Dr. Rakhi Dua -Real-time obstacle avoidance in mobile robots using deep reinforcement learning in Future Publishing LLC, by Future Technology with E-ISSN/ISBN2832-0379- published on 25th April 2026
16. Dr. Kaushal Kumar-Hydrogen as a lower' temperature combustion HCCI engine fuel: a review in springer, by Journal of Thermal Analysis and Calorimetry with E-ISSN/ISBN Electronic ISSN 1588-2926 -Print ISSN 1388-6150 published on 22nd April 2026
17. Ms. Kriti Sharma-Synergistic effects of graphene reinforcement on the tribological and erosion behaviour of WC-Co composite coatings in Elsevier, by International Journal of Refractory Metals and Hard Materials with E-ISSN/ISBN2213-3917-0263-4368 published on 21st April 2026
18. Dr. Sanesh Lata Yadav-A hybrid bio-inspired model for predicting urban air pollution using deep learning in Springer nature, by scientific reports with E-ISSN/ISBN2045-2322-2045-2322 published on 2nd April 2026

19. Dr. Sanesh Lata Yadav-Bio-Optimized Complex Valued Spatiotemporal GNN for Herbal Species Classification in Springer nature, by Scientific reports with E-ISSN/ISBN2045-2322.-2045-2322. published on 1st April 2026
20. Mr. Shri Ram-Synergistic effects during the co-pyrolysis of rice straw and pinewood sawdust: investigation of thermal decomposition behaviour and reaction kinetics in Taylor and Francis, by CHEMICAL ENGINEERING COMMUNICATIONS with E-ISSN/ISBN1563-5201- 0098-6445 published on 1st May 2026

PATENT PUBLICATION (APRIL TO JUNE 2026)

1. Dr. Aarti Sangwan published a patent titled: Alot Enabled Smart Intelligent ICU Monitoring System in healthcare Industry using Hybrid cloud patent number: 202641034018 published on: 27th March 2026
2. Dr. Meenu, Dr. Swati published a patent titled: Cognitive Artificial Intelligence System for Automated for Pattern Regonition patent number: 202611046813 A published on: 22nd May 2026
3. Mr. Vishwanil Suman published a patent titled: AI-Driven Cyber Threat Prediction Engine using Multi-Layer Behavioral and Network Traffic Analysis patent number: 202611001512 published on: 13th June 2026
4. Dr. Reenu published a patent titled: AI and Machine Learning-Based Framework for Enhancing English Literature Studies in Higher Education patent number: 202641061664 published on: 29th May 2026
5. Dr. Rakhi Dua published a patent titled: Automated Hygienic Dustbin System patent number: 202611046818 A published on: 22nd May 2026
6. Dr. Rakhi Dua published a patent titled: Hand Gesture Controlled Robot Sensing patent number: 202611046814 A published on: 22nd May 2026
7. Dr. Rakhi Dua published a patent titled: An Autonomous Obstacle Avoidance Robotic Vehicle Using Ultrasonic Sensing Technology patent number: 202611046812 A published on: 22nd May 2026
8. Dr. Aarti Sangwan published a patent titled: Deep Learning Based Intelligent Fault Diagnosis and Load Prediction for Smart Energy and Industrial Cyber-Physical Systems patent number: 202641041801 published on: 10th April 2026
9. Ms. Megha Sharma published a patent titled: Method and system for wireless security of an organization using AI, ML, and the Internet of Things patent number: 202611023965 published on: 17th April 2026
10. Dr. Ayala Kishore published a patent titled: Echo Vision Belt A Wearable Ultrasonic-Based 360 Obstacle Detection and Voice-Alert Assistive Device patent number: 202611000057 published on: 2nd June 2026

11. Dr. Reenu published a patent titled: Smart Chain Sec: A Blockchain-Enabled Trust Model for Securing Edge-to-Cloud Workflows patent number: 202611026921 published on: 1st May 2026
12. Dr. Rakhi Dua published a patent titled: Microcontroller-Based Line Following Robot Using Infrared Sensors patent number: 202611015950 A published on: 24th April 2026
13. Ms. Rishika Mehta published a patent titled: System and Method for Predicting Potential Food Contamination using IoT Sensors, Artificial Intelligence, Data Mining & Machine Learning patent number: 202641042930 published on: 10th April 2026

CONFERENCE PROCEEDING (APRIL TO JUNE 2026)

1. Dr. Monika Khatkar published- Multi-Layered Cross-Domain Data Governance Framework to Ensure Privacy Compliance and Ethical Management in Highly Interconnected Smart City Systems in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
2. Dr. Anshu published- Artificial Intelligence Driven Fusion of Multi-Source Renewable Energy Systems for Building Carbon-Neutral and Environmentally Friendly Smart City Infrastructures in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
3. Dr. Shweta Bansal published- Blockchain Enabled Distributed Trust and Security Framework for Achieving Infrastructure Resilience in Decentralized and Hyperconnected Smart Cities in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
4. Dr. Pankaj Agarwal published- Multi-Hazard Resilient Infrastructure Modeling Using Digital Twin Technology Combined with Predictive Analytics in Modern Smart City Frameworks in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
5. Dr. Vandna Batra published- Federated Learning Based Integrated Infrastructure Resilience Framework for Privacy-Preserving and Distributed Intelligence in Smart City Networks in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
6. Ms. Suman published- Artificial Intelligence Enabled Predictive Infrastructure Management Systems for Supporting Resilient and Sustainable Smart Urban Development Strategies in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026

7. Dr. Anshu published- Swarm Robotics Intelligence for Autonomous and Adaptive Infrastructure Monitoring and Optimization in Artificial Intelligence Powered Smart Urban Cities in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
8. Dr. Pankaj Agarwal published- A Federated Learning Approach for Time Series Forecasting and Robust Querying in Distributed Data Systems in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
9. Dr. Vandna Batra published- Dynamic Trust Evaluation and Resource Allocation in Fog Nodes Using Responsibility-Based Modeling in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
10. Dr. Surabhi Shanker published- Federated Cloud-Fog Systems: Cost-Minimizing Offloading and Efficient Edge Resource Management for Delay-Sensitive Tasks in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
11. Dr. Swati published- A Deep Neural Network Approach to Model-Based Engineering and Resource Scheduling in Industrial IoT (IIoT) Environments in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
12. Dr. Vandna Batra published- Creating Safety in Cyber-Physical Systems Using an Intellectual Multi-Objective Evolutionary Prototypical in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
13. Dr. Anshu published- Integrating Cutting-Edge Big Data Analytics into Smart Grid Architectures and Smart Energy Distribution Networks for Predictive Maintenance and Cyber Threat Mitigation in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
14. Dr. Shweta Bansal published- Constructing Fault-Tolerant, Predictive Monitoring Frameworks for Cyber-Physical Systems Driving the Development of Future Smart City Infrastructures in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
15. Dr. Swati published- Establishing a Blockchain-Enabled Access Control Architecture to Support Secure, Distributed Smart Campus Applications within Large-Scale Urban Networks in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026

16. Dr. Meenu published- Innovating Green and Sustainable Computing Strategies for Optimized Energy Utilization and Ecological Operations in Smart Urban Computing Environments in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
17. Dr. Monika Khatkar published- Developing Advanced Machine Learning Models to Preserve Privacy and Ensure Data Security for IoT-Enabled Smart Consumer Devices within Intelligent Smart Homes in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
18. Ms. Suman published- Designing Secure Cryptographic Communication Protocols for Wireless Control of Medical Devices in Smart Healthcare Systems and IoT-Enabled Smart Hospitals in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
19. Dr. Preeti Rathi published- Constructing a Comprehensive Blockchain-Driven Framework to Facilitate Secure, Transparent, and Distributed Sharing of Open Data Across Smart Urban IoT Networks in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
20. Dr. Shweta Bansal published- Optimized Feature Selection and Soft Computing for Medical Data Diagnosis Using Rough Set Min-Max Classifier in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
21. Ms. Suman published- An Empirical Study on Rough Set Theory for Feature Selection and Classification Model Optimization in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
22. Dr. Pankaj Agarwal published- Investigating ECG Signal Denoising and Classification Using EMD-FWBSO and Advanced Hybrid Classifiers in IEEE in 2025 IEEE 1st International Conference on Recent Trends in Computing and Smart Mobility (RCSM) of E-ISSN/ E_ISBN 979-8-3315-9126-7 published on 11th May 2026
23. Dr. Surendra Kumar Yadav published- Advancements in 3-D Printing Technology: A Comprehensive Review in springer in Recent Advances in Production Engineering,FLAME2024 2024 of E-ISSN/ E_ISBN 2195-4364 published on 30th April 2026

DOCTORAL ACHIEVEMENTS

1. Mr. Rajesh Yadav, under the supervision of Dr. Swati Gupta, successfully presented his pre-thesis work titled "Analysis and Design of Smart Attendance Systems: Multimodal Biometric Fusion with Artificial Intelligence." His research focuses on leveraging artificial intelligence and multimodal biometric technologies to develop intelligent, accurate, and efficient attendance management systems.
2. Ms. Ritu, working under the supervision of Dr. Meenu and co-supervision of Dr. Meenakshi (BML Munjal University), successfully completed her final Ph.D. viva-voce on the thesis titled "Enhancing Driving Behavior through Advanced Drowsiness Detection Systems: Integrating Deep Learning and Machine Learning Techniques." Her work contributes to road safety by utilizing advanced AI-driven approaches for driver monitoring and fatigue detection.
3. Ms. Poonam Yadav, also under the supervision of Dr. Meenu and co-supervision of Dr. Meenakshi (BML Munjal University), successfully completed her final Ph.D. viva-voce on the thesis titled "An In-Depth Analysis and Design of a Machine Learning Model for Early Diagnosis and Prediction of Chronic Diseases." Her research explores the application of machine learning techniques in healthcare to support early disease detection and predictive analysis, contributing to improved medical decision-making.
4. Ms. Neetu Chauhan, under the supervision of Prof. (Dr.) Shweta Bansal, successfully presented her pre-thesis work titled "A Novel Approach for Energy Consumption Prediction at Different Time Horizons Using Machine Learning." Her research focuses on leveraging machine learning techniques to develop accurate energy consumption forecasting models across different prediction horizons, contributing to intelligent energy management systems through data-driven decision-making and improved energy utilization.

COLLABORATIONS

MEMORANDUM OF UNDERSTANDING

The School of Engineering & Technology (SOET), K.R. Mangalam University, in collaboration with the Centre of Excellence – Cloud Computing, organized a 5-Day Student Exchange & Technical Training Program from 4th May to 8th May 2026 under its MoU with Government Polytechnic, Indri. The programme aimed to provide students with a comprehensive learning experience that combined academic knowledge with practical industry-oriented skills. Participants engaged in a range of activities, including orientation sessions, campus and laboratory visits, hands-on training in programming, GitHub, Artificial Intelligence, and Cyber Security, as well as innovation-focused workshops and collaborative learning exercises. The initiative was designed to enhance technical proficiency, encourage innovation, and strengthen professional competencies through experiential learning. In addition, career guidance sessions and industry-relevant skill development activities helped students gain valuable insights into emerging technologies and future career opportunities. The programme reflected the university's commitment to fostering industry-academia collaboration and preparing students to meet real-world technological challenges with confidence and competence.

K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

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अभियान
1947 TO 2047

School of Engineering & Technology
In Collaboration with
COE-Cloud Computing
K. R. Mangalam University

Organizes
5 DAYS
STUDENT EXCHANGE PROGRAM

under the **MOU** between
Government Polytechnic Indri and KR Mangalam University.

Venue: B-Block, K. R. Mangalam University
Date: 4 May to 8 May 2026

CONVENOR
Dr. Yogita Yashveer Raghav
Chairperson,
Centre of Excellence-Cloud Computing,
School of Engineering & Technology

EVENT COORDINATOR
Ms. Jyoti Yadav
Member Secretary,
Centre of Excellence-Cloud Computing,
School of Engineering & Technology

STUDENT COORDINATORS
• Mrinal (BTech(CSE))
• Navya (BTech(AI & ML))

SOET and COE-Cloud Computing launch a 5-Day Student Exchange Program to enhance technical skills and industry readiness.

CLUBS & CENTERS

CENTRE OF EXCELLENCE- ARTIFICIAL INTELLIGENCE

AIOT SYNERGY HACKATHON

K.R. Mangalam University's School of Engineering & Technology, in collaboration with the Center of Excellence – Artificial Intelligence, hosted the AIoT Synergy Hackathon on 24th April 2026, bringing together 112 students for a day of intensive, hands-on innovation. Centered on the convergence of Artificial Intelligence and the Internet of Things, the event pushed participants beyond classroom theory into real-world problem-solving, challenging them to design and build functional prototypes under tight time constraints. The day began with a formal inauguration featuring traditional lamp lighting, followed by an orientation session where the hackathon's rules, evaluation criteria, and problem statements were laid out for participating teams. From there, students moved through the full arc of a real product development cycle: brainstorming ideas, architecting solutions, dividing responsibilities, and then building out their AI models, IoT integrations, and user interfaces. While there were no formal mentorship slots built into the schedule, organizers and coordinators stayed available throughout to help teams navigate technical roadblocks and refine their approach. The final stretch saw participants shift gears toward storytelling — polishing their pitches, rehearsing live demos, and preparing to defend their work in front of judges. Projects were assessed on innovation, technical execution, and feasibility, with the top three spots going to Team ROTORS for their Ariel Tactical Response System, Team Peanut Butter for a Collaborative Coding Platform, and Team Code Verse for a Gesture Controlled Manipulator Arm. Beyond the rankings, the hackathon gave students a genuine taste of competitive, deadline-driven engineering work — sharpening their technical skills, adaptability, and teamwork along the way.



Participants engrossed in development work during the AIoT Synergy Hackathon



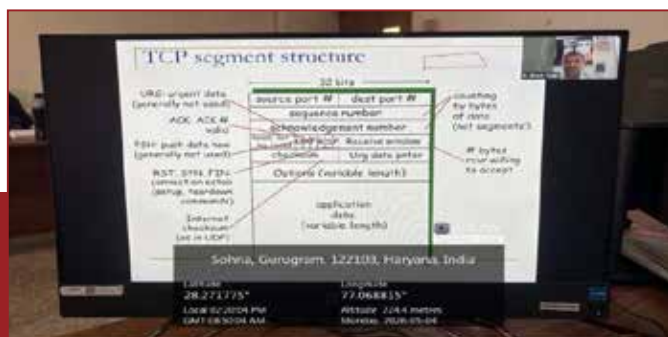
Students giving their final presentation to respective judges Centre of Excellence-Cyber Security

FACULTY DEVELOPMENT PROGRAM ON CYBERSECURITY INTELLIGENCE & ETHICAL HACKING PRACTICES

The Centre of Excellence–Cyber Security, in collaboration with the School of Engineering and Technology, K.R. Mangalam University, successfully organized a Faculty Development Programme on “Cybersecurity Intelligence & Ethical Hacking Practices” from 4th May 2026 to 15th May 2026. The programme brought together faculty members from various disciplines to enhance their understanding of contemporary cybersecurity challenges and solutions through expert-led sessions and practical demonstrations.

The FDP covered a wide spectrum of topics, including cybersecurity fundamentals, ethical hacking methodologies, networking concepts, operating systems, foot printing and reconnaissance, vulnerability assessment, web application security, malware analysis, social engineering, wireless security, threat intelligence, Security Operations Centers (SOC), cloud security, and the growing role of Artificial Intelligence and Large Language Models in cybersecurity. Participants gained hands-on exposure to industry-standard tools and techniques used for identifying, analyzing, and mitigating cyber threats.

Through interactive sessions conducted by renowned academicians and industry experts, faculty members developed practical skills in penetration testing, security monitoring, risk assessment, and cyber defense strategies. The programme also encouraged discussions on emerging trends, ethical considerations, and the integration of cybersecurity concepts into teaching and research. Overall, the FDP served as a valuable platform for strengthening cybersecurity awareness, fostering technical expertise, and promoting innovation in cybersecurity education and research.



Technical session, conducted by Dr. Dinesh Tyagi



Session going on CIA Triad, concepts of threats, vulnerabilities, and risks

CYBER CHALLENGE 2.0

The School of Engineering and Technology, in collaboration with the Centre of Excellence–Cyber Security, successfully organized Cyber Challenge 2.0 on 8th April 2026, an engaging cybersecurity competition designed to test students' technical knowledge, analytical thinking, and problem-solving abilities. The event provided participants with an opportunity to tackle real-world cybersecurity challenges in a competitive environment, encouraging them to apply their skills in innovative and practical ways.

The competition featured challenges across multiple domains, including cryptography, web exploitation, digital forensics, reverse engineering, and logical problem-solving. Participants worked through progressively challenging tasks that required identifying vulnerabilities, decoding encrypted information, analyzing digital evidence, and uncovering hidden flags. A live leaderboard added excitement to the event by tracking participants' performance based on accuracy, efficiency, and the complexity of challenges solved.

The event successfully enhanced students' understanding of cybersecurity concepts and ethical hacking practices while fostering critical thinking, technical competence, and teamwork. By combining learning with competition, Cyber Challenge 2.0 inspired greater interest in cybersecurity careers and highlighted the importance of hands-on technical experiences in preparing students for emerging technological challenges. The winners demonstrated exceptional problem-solving skills and technical expertise, making the event a memorable and impactful learning experience for all participants.



Live scores of participants on Leader Board



Students Solving Cyber Security Problems

CENTRE OF EXCELLENCE – CLOUD COMPUTING

WORKSHOP ON CLOUD TECHNOLOGIES AND QUALITY STANDARDS

The School of Engineering & Technology, K.R. Mangalam University, in collaboration with the Centre of Excellence – Cloud Computing and IQAC, successfully organized an Industry-Led Workshop on Cloud Technologies and Quality Standards. The workshop provided students with valuable exposure to contemporary industry practices and emerging trends in cloud computing and DevOps. The session was led by Mr. Priyank Kumar, Senior DevOps Engineer at PaloAlto Soft, who shared practical insights into cloud infrastructure, DevOps methodologies, and the evolving expectations of the technology industry. Students gained a deeper understanding of the real-world applications of cloud technologies, industry quality standards, and the skills required to build successful careers in cloud and DevOps domains. The interactive session bridged the gap between academic learning and industry requirements, encouraging participants to develop industry-relevant competencies and a professional outlook. Such initiatives reflect the university's commitment to experiential learning and enhancing students' readiness for future technological challenges.



Future cloud professionals in action during a hands-on workshop focused on emerging technologies and industry best practices.



Students actively participating in the Industry-Led Workshop on Cloud Technologies and Quality Standards, gaining hands-on exposure to cloud computing and DevOps practices.

Intellithon'26, an inter-university hackathon organized by the Centre of Excellence in Artificial Intelligence in collaboration with the School of Engineering and Technology (SOET), Froyo Technologies, and IBM Pvt. Ltd., Noida, was successfully conducted on 20–21 April 2026 at K.R. Mangalam University in hybrid mode. The event witnessed enthusiastic participation from students across multiple universities, with a total of 180 registrations, out of which the top 20 teams were shortlisted through an online preliminary round based on their submissions in the form of presentations and video pitches. These entries were evaluated on innovation, technical feasibility, clarity, and impact, leading to an engaging and competitive offline final round held at the university campus, where 69 and 76 participants attended physically over the two days. Guided by faculty coordinators Dr. Shweta Bansal, Dr. Monika Khatkar, and Dr. Amar Saraswat, and supported by a dedicated team of volunteers, the hackathon brought together emerging talent in a collaborative

environment where participants demonstrated strong technical acumen, creativity, teamwork, and problem-solving abilities through live demonstrations and presentations before a distinguished panel of judges comprising Mr. Hanish Pathak, Ms. Nidhi, and Mr. Ankit Luthra.

The event was designed to provide practical exposure to real-world problem-solving, encourage innovation and critical thinking, and bridge the gap between academic learning and industry expectations while strengthening teamwork and communication skills. Participants benefited from mentoring and evaluation based on innovation, technical implementation, and presentation, gaining hands-on experience in developing solutions under time constraints. The valedictory session recognized outstanding performances, with Team VST securing the first position, followed by Team SSV Innovators and Team Stark Mind as second and third prize winners respectively, while all participants, judges, organizers, and volunteers were felicitated for their contributions. The collaboration with industry partners Froyo Technologies and IBM Pvt. Ltd. added significant value by enhancing industry relevance and exposure, ultimately making Intellithon'26 a highly impactful initiative that promoted innovation, experiential learning, and industry readiness among students, while reinforcing a culture of excellence within the academic community.



Falication ceremony of Intellithon'26. Coordinators sharing stage with distinguished panel of judges

EVENTS CORNER

BEST PROJECT AWARD CEREMONY

The School of Engineering and Technology, in collaboration with KEIC, successfully organized the Best Project Award Ceremony on 24th April 2026 to recognize and celebrate outstanding student projects across various academic years. The event provided a prestigious platform for students to showcase innovative ideas, technical expertise, and practical solutions developed through project-based learning. A large number of students participated, presenting projects that addressed real-world challenges and demonstrated creativity, feasibility, and technical excellence.

Projects were evaluated by an esteemed panel of industry experts based on innovation, problem relevance, technical implementation, impact, and practical applicability. Through detailed presentations and live demonstrations, participants highlighted the potential of their projects while receiving valuable feedback from the judges. The ceremony fostered a spirit of healthy competition and encouraged students to translate theoretical knowledge into meaningful, real-world applications.

The event successfully promoted innovation, experiential learning, and technical skill development among students. By recognizing exceptional projects and rewarding outstanding performances, the ceremony motivated participants to pursue excellence in research, design, and problem-solving. Overall, the initiative served as an inspiring platform that strengthened students' confidence, communication abilities, and commitment to innovation while showcasing the vibrant project culture within the School of Engineering and Technology.



Group photograph with the winners of Best Project Competition



Certificate of Appreciation awarded to the winners of Best Project

BROCHURE RELEASED FOR MRIE-2026 INTERNATIONAL CONFERENCE

The School of Engineering & Technology, K.R. Mangalam University, officially released the brochure for the 3rd International Conference on Multidisciplinary Research and Innovations in Engineering (MRIE-2026) on 21st May 2026, marking the commencement of preparations for one of the university's flagship international research events. The conference, technically sponsored by the IEEE Delhi Section, is scheduled to be held in September and aims to bring together researchers, academicians, industry experts, and scholars from across the globe to exchange ideas and showcase cutting-edge innovations in engineering and technology.

MRIE-2026 will provide a vibrant platform for presenting original research and fostering interdisciplinary collaboration across diverse domains. The conference features five major tracks: Advanced Computing Technologies; Cybersecurity and Human Interaction; Emerging Communication Networks & Security; Power, Signals, Integrated Systems, and Future Technologies; and Materials Science and Engineering. These tracks are designed to address contemporary technological challenges and emerging research opportunities that are shaping the future of engineering.

The release of the conference brochure in May serves as an invitation to researchers and scholars to contribute their work and become part of this prestigious academic gathering. With technical sponsorship from the IEEE Delhi Section, the conference is expected to attract high-quality research contributions and facilitate meaningful discussions on innovation, sustainability, and technological advancement.

The organizing committee has encouraged faculty members, research scholars, industry professionals, and students to actively participate by submitting original research papers and engaging in knowledge-sharing opportunities. MRIE-2026 reflects K.R. Mangalam University's continued commitment to promoting research excellence, fostering academic collaborations, and creating platforms that encourage innovation and impactful scientific contributions.

Registration Details
Authors of accepted papers are requested to proceed with the payment of the conference registration fee through the following payment method:

Payment link:-
<https://p.ppsl.io/PYTMS/NytSfk>

Upon completing payment, the corresponding author must share the transaction details for verification to: mrie2026@krmangalam.edu.in

Important:

- Kindly ensure that at least ONE author completes full conference registration before submitting the final manuscript.
- Students/Research Scholar must present/mail a valid student card for verification.
- IEEE members are requested to email their membership card for verification.

CONFERENCE TRACKS

MRIE-2026 invites submissions for its diverse range of tracks aimed at exploring cutting-edge research & innovations in various fields of technology and engineering. Researchers, practitioners & academicians are encouraged to contribute their original work to foster interdisciplinary discussions and advancements in the following tracks:

Track 1: Advanced Computing Technologies
Track 2: Cybersecurity and Human Interaction
Track 3: Emerging Communication Networks & Security
Track 4: Power, Signals, Integrated Systems and Future Technologies
Track 5: Materials Science and Engineering

Papers from other topics relevant to the conference theme or the special sessions are also welcome. Authors are encouraged to submit original, unpublished papers via the conference submission system. All submissions will undergo a thorough peer-review process. Accepted and presented papers will be considered for possible publication in IEEE Xplore.

CONFERENCE COMMITTEE

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3rd INTERNATIONAL CONFERENCE
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24th - 26th September 2026

SOET launches the brochure for MRIE-2026, inviting researchers worldwide to contribute to emerging advancements in engineering and technology.

AI BUILDATHON 2026

The School of Engineering and Technology, in collaboration with Replit, successfully organized AI Buildathon 2026 on 23 April 2026, providing a unique platform for students to explore Artificial Intelligence through innovation and hands-on learning. Designed especially for non-technical students, the event witnessed the enthusiastic participation of 750 students, encouraging learners from diverse academic backgrounds to develop AI-powered solutions to real-world challenges. Following the preliminary evaluation, 28 teams were shortlisted for the final round, where they presented their innovative ideas before an expert jury.

The shortlisted teams were evaluated by an esteemed panel of judges comprising Syed Adil, Mihir Sose, and Seema, who assessed the projects based on innovation, problem relevance, creativity, technical implementation, feasibility, and potential impact. Through engaging presentations and demonstrations, participants showcased their ability to leverage AI tools for solving practical problems while receiving valuable feedback and mentorship from the judges. The event promoted collaboration, critical thinking, and experiential learning, enabling students to gain practical exposure to emerging AI technologies.

The winning teams were recognized with cash prizes and Replit Pro and Core subscriptions, contributing to a reward pool worth ₹15 lakh. AI Buildathon 2026 successfully fostered an inclusive and future-ready learning environment by encouraging innovation, creativity, and problem-solving among students. The event also highlighted the University's commitment to equipping learners with industry-relevant skills and empowering them to become responsible innovators capable of addressing real-world challenges through Artificial Intelligence.



Inauguration of AI Buildathon 2026 through the traditional lamp-lighting ceremony.

PARENT TEACHER MEETING

The School of Engineering & Technology, K.R. Mangalam University, successfully organized a Parents-Teacher Meeting on 25 April 2026 to strengthen collaboration between faculty members and parents in supporting students' overall development. The meeting served as an interactive platform for discussing students' academic progress, personal growth, professional readiness, and well-being. Faculty members shared insights on learning outcomes, skill development, and the practical application of engineering concepts, while parents provided valuable feedback and suggestions for enhancing the student learning experience.

The discussions emphasized the importance of nurturing not only academic excellence but also essential qualities such as communication skills, ethical values, initiative, responsibility, and lifelong learning. The meeting highlighted the shared responsibility of faculty, parents, and students in creating a supportive environment that fosters confidence, accountability, and holistic development. Through constructive dialogue and mutual engagement, the event reinforced the university's commitment to student success and strengthened the partnership between the institution and families in shaping future-ready professionals.



Faculty members engaging with parents during the Parents-Teacher Meeting, fostering meaningful discussions on students' academic progress, personal development, and future growth.



Interactive one-on-one discussions during the Parents-Teacher Meeting provided an opportunity to exchange feedback, address concerns, and collaboratively support student achievement.

TECHNICAL ARTICLES

DR. ANKUSH MEHTA: QUANTUM-INSPIRED HYBRID OPTIMIZATION FRAMEWORK FOR ENERGY-EFFICIENT CLUSTERING AND ROUTING IN WIRELESS SENSOR NETWORKS



Abstract: This paper proposes QIHOR-WSN, a Quantum-Inspired Hybrid Optimization Framework that jointly optimizes clustering and routing in Wireless Sensor Networks (WSNs) to address the dual challenge of energy depletion and network lifetime in large-scale, heterogeneous deployments. In resource-constrained WSNs with unevenly distributed nodes and limited battery capacity, existing methods treat clustering and routing as separate problems, yielding suboptimal global performance and insufficient adaptability to dynamic network conditions. The proposed framework integrates Quantum Particle Swarm Optimization with a Genetic Algorithm to achieve a balanced exploration–

exploitation trade-off and superior convergence characteristics. An innovative multi-objective fitness criterion is developed by collectively addressing residual energy, node density, communication distance, and network stability to facilitate energy-conscious cluster-head selection and the most energy-efficient routing paths. The framework presents a density-load-aware radio energy model that extends the classical first-order radio model to account for spatial heterogeneity and communication interference. A complete algorithmic implementation is provided, accompanied by a theoretical complexity analysis establishing $O(T \cdot (N^2 + P \cdot N))$ computational cost and $O(P \cdot N)$ memory requirements. Comprehensive simulations over 1,000 rounds on 100-node random deployments demonstrate that QIHOR-WSN consistently outperforms all five baseline protocols. Against classical protocols (LEACH, DEEC), network lifetime improvements reach 41–120% (FND metric); against the strongest hybrid baseline (Hybrid PSO-GA), QIHOR-WSN achieves 21.5% longer FND, 10.2% lower total energy consumption at round 1,000, 27.9% extended high-PDR operation, and 22.6% lower end-to-end delay—all statistically significant over 30 independent simulation runs ($CV \leq 5.6\%$). These gains confirm the robustness, scalability, and practical suitability of QIHOR-WSN for next-generation WSN applications including industrial IoT, environmental monitoring, and smart city infrastructure.

DR. RUPESH KUMAR TIPU: A SYSTEMATIC AND CRITICAL REVIEW OF ENSEMBLE, HYBRID, AND STACKED LEARNING MODELS FOR PREDICTING THE COMPRESSIVE STRENGTH OF CEMENT-BASED MORTARS



Abstract: Predicting the compressive strength of cement-based mortars has become increasingly important because modern mortar systems often contain recycled powders, supplementary cementitious materials, chemical modifiers, and different curing conditions that produce highly nonlinear strength responses. Although machine learning has been widely applied in cementitious-material research, the evidence on ensemble, hybrid, and stacked learning models for mortar compressive-strength prediction remains scattered and difficult to compare across studies. Existing studies also show recurring limitations, including heterogeneous mortar datasets, inconsistent predictor definitions, mixed curing-age structures, small or imbalanced

data sources, weak or random validation designs, incomplete reporting of preprocessing and hyperparameter tuning, limited external validation, and limited uncertainty-aware performance reporting. These limitations make direct comparison of reported accuracy values unreliable and justify the need for a focused critical review. This review addresses that need by providing a PRISMA-based systematic and critical synthesis focused specifically on cement-based mortars, compressive strength, and advanced ensemble-family predictors. Scopus and PubMed were searched for English-language records published during 2010–2026, with Scopus further restricted to journal articles. The search identified 680 records, removed 55 duplicates, screened 625 unique records, and retained 33 full-text studies for qualitative synthesis. The main contribution of this review is a model-family-level synthesis that separates bagging/tree ensembles, boosting ensembles, hybrid or metaheuristic-tuned models, and stacked or blended models, while linking their reported performance to mortar type, dataset composition, curing-age coverage, validation design, tuning transparency, and interpretability practice. A further methodological contribution is the use of a quality-weighted within-study rank synthesis, which reduces the risk of misleading cross-study comparison caused by heterogeneous datasets, different strength ranges, and inconsistent reporting of performance metrics. The reviewed evidence shows a clear acceleration of research after 2021, with strong attention to sustainable and recycled-modified cement mortars. Bagging/tree ensembles and boosting methods are the most frequently reported model families, while hybrid/metaheuristic-tuned models are also common and stacking/blending remains comparatively recent. The synthesis indicates that model superiority claims depend strongly on validation rigor, preprocessing transparency, dataset structure, and reporting quality. Interpretability tools such as SHAP, feature importance analysis, and partial dependence plots are becoming more common, but uncertainty-aware reporting remains limited. Overall, ensemble-family models show strong potential for mortar compressive-strength prediction, but broader claims require stricter validation, clearer reporting, stronger external testing, and more reproducible benchmarking protocols.

PLACEMENTS & INTERNSHIPS

In continuation to previous quarter placement, 13 students in duration of April-June 2026 are placed in companies of their expertise.

Placement (April-June 2026)

S.No.	Name	Company	Designation Offered
1	Aarushi Sharma	Forfra Solutions	Digital Creator/Graphic Designer Intern
2	Adhvay Banerjee	Zenus Group	Graduate Engineer Trainee
3	Hridayanshu Yogi	Zenus Group	Graduate Engineer Trainee
4	Prince Dagar	Zenus Group	Graduate Engineer Trainee
5	Ayush Kumar	Zenus Group	Graduate Engineer Trainee
6	Kabir	Forfra Solutions	Digital Creator/Graphic Designer Intern
7	Ayush Hatwal	Zorvyn Fintech Pvt Ltd	Data Analyst Intern
8	Abhishek	Design plus construction ltd.	Data analyst
9	Tarun Goel	Dynamic dazzle entertainment llp	Ai Automation engineer
10	Payal Rathore	RiskBerg Consulting	Information Security - Trainee
11	Amber Paul	Ethara.AI	Software engineer- Full stack
12	Ayush Parasher	Ethara.AI	Software engineer- Full stack
13	Sanskar Kumar Gupta	Zenus Group	Graduate Engineer Trainee

Internship (April- June 2026)

In the first quarter 189 students were selected for internship in the companies of the reputed companies of their expertise. 28 students were selected in second quarter of 2026.

S.No.	Student Name	Program	Name of the organization
1	Muskaan Jain	B. Tech CSE AI & ML	Senken Engineering Private Ltd
2	Nishkarsh Singh	B. Tech CSE	Technum Opus
3	Lakshay Saini	B. Tech CSE	Team Computers Private Limited
4	Shivam Tomar	B. Tech CSE AI & ML	HCL Technologies
5	Lokesh Kumar Sihag	BCA AI & DS	SenseGrid Analytics LLP
6	Chandan Yadav	B. Tech CSE AI & ML	Entorhino AI
7	Amit Raj	B. Tech CSE	Ethara AI
8	Varun Kumar	B. Tech CSE AI & ML	Prohousy Tech
9	Saksham Sharma	MCA	Prohousy Tech
10	AbhinavJha	B. Tech CSE	HCL Technologies
11	Bhaumik	B. Tech CSE AI & ML	Finns Private Limited
12	Arpit Jain	B. Tech CSE	M-Set Scaffoldings Private Limited
13	Pratyush Raj Srivastava	B. Tech CSE AI & ML	Sceem Solutions Private Limited
14	Aditya Suman	B. Tech CSE AI & ML	Sceem Solutions Private Limited
15	Anmol Nagal	B. Tech CSE AI & ML	Sceem Solutions Private Limited
16	Rohit Kumar	B. Tech CSE	Ethara. AI
17	Harpreet Jhakar	B. Tech CSE	Ethara. AI
18	Keshav Sharma	B. Tech CSE AI & ML	Sunrise Manpower

19	Saksham	B. Tech CSE AI & ML	The Brand Wolfs
20	Rakshit Sachdeva	B. Tech CSE AI & ML	The Brand Wolfs
21	Aaryan Tandon	B. Tech CSE AI & ML	The Brand Wolfs
22	Rudraraj Radhwani	B. Tech CSE AI & ML	Maruti Suzuki India Limited
23	Priya Dagar	B. Tech CSE AI & ML	Tauras Hard Soft Solutions Private Limited
24	Mohit	B. Tech CSE	Ethara. AI
25	Aman Ashish Kaushik	B. Tech CSE (FSD)	Ethara. AI
26	Nishant	B. Tech CSE	Shivam Enterprises
27	Rizpah Patole	B. Tech CSE	Ethara. AI
28	Sarthak Kumar	B. Tech CSE	Ethara. AI

OUR ALUMNI



MANSI SINGH

Batch : 2021–2025

Program: B.Tech. ME

Current organization and designation : New Product Development Engineer at Auto International India Private Limited.

I am Mansi, a proud alumna of the B.Tech Mechanical Engineering batch of 2021–2025 at K.R. Mangalam University. My journey at KRMU was filled with learning, growth, and memorable experiences. The constant support of the faculty along with opportunities such as internships, industrial visits, and my role as Student Coordinator of the Environmental Club, helped me develop both technical and leadership skills. One of the proudest moments of my academic journey was receiving my degree and a Silver Medal at the convocation ceremony. KRMU taught me the values of independence, perseverance, and continuous learning, which continue to guide me today.

Currently, I am working as a New Product Development Engineer at Auto International India Private Limited. My role involves coordinating product development activities, managing technical documentation, and interacting with customers to ensure that project requirements are met throughout the manufacturing process. I contribute to the development of suspension and steering system components supplied to leading automotive manufacturers, including BMW, Mercedes-Benz, Ford, Mahindra, Ferrari, and Maserati. This role has given me valuable exposure to product development, customer coordination, and the automotive manufacturing industry.





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