K.R. MANGALAM UNIVERSITY

THE COMPLETE WORLD OF EDUCATION

PRISM

SCHOOL OF ENGINEERING & TECHNOLOGY

NEWSLETTER OCTOBER - DECEMBER 2025

CONTENTS

FROM EDITORS DESK

From thought-provoking literary and technical articles to insights into emerging trends, technologies, and events, this newsletter encapsulates the spirit of innovation and intellectual growth that defines SOET

Dear Readers,

It is with great pride that we present this quarterly edition of PRISM, the newsletter of the School of Engineering and Technology (SOET) at K.R. Mangalam University. This edition highlights the notable achievements and academic progress of our school, reflecting our continued commitment to excellence, innovation, and research-oriented learning.

At SOET, we consistently strive to expand the boundaries of knowledge through impactful research initiatives and the implementation of progressive teaching methodologies. Our approach focuses on nurturing talent and encouraging creativity among both students and faculty, motivating them to explore opportunities beyond the traditional curriculum and pedagogical practices.

PRISM serves as an engaging platform that showcases the diverse contributions of our students, alumni, and faculty members. The newsletter features a range of literary and technical articles, along with insights into emerging technologies, academic developments, and institutional events. Through these contributions, PRISM captures the spirit of intellectual curiosity and innovation that defines SOET. We firmly believe that every student at SOET possesses unique abilities and creative perspectives. Their ideas, accomplishments, and dedication in their respective domains demonstrate the strong culture of knowledge, innovation, and academic excellence within our institution.

As you explore this edition, we invite you to appreciate the enthusiasm, creativity, and commitment that continue to drive SOET toward greater achievements. We hope this newsletter serves as a reflection of our collective efforts and as a source of inspiration for the entire SOET community.

Happy Reading

Dr. Shweta Bansal

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

I extend my heartfelt gratitude to all contributors, writers, and the editorial team for their unwavering dedication to making PRISM a compelling read. To our readers, thank you for your continued support and enthusiasm

Dear Readers,

It is with great pleasure that I welcome you to the fourth-quarter edition of **PRISM 2025**, the newsletter of the School of Engineering and Technology. PRISM serves as a platform that connects us to the vibrant and evolving landscape of technological advancements, research initiatives, innovation, and the accomplishments of our faculty, students, and alumni.

This quarter has witnessed several noteworthy developments across various engineering disciplines, including the establishment of new MoUs, the organization of technical events, scholarly publications, and significant contributions from our faculty members. This edition of the newsletter presents a curated collection of articles, achievements, and insightful perspectives that highlight these milestones. Together, they reflect our institution's continued commitment to academic excellence and innovation, while inspiring the broader engineering community to think creatively and contribute meaningfully to technological progress.

I would like to express my sincere appreciation to all contributors, writers, and the editorial team for their dedication and efforts in making PRISM an engaging and informative publication. I also extend my gratitude to our readers for their continued support and encouragement.

Let us continue to celebrate the spirit of engineering, creativity, and innovation.

Happy Reading!

Warm Regards

Kriti Sharma

Editor – PRISM
School of Engineering and Technology
K R Mangalam University

FROM THE DESK OF IQAC COORDINATOR

On behalf of the IQAC, I extend my best wishes to the editorial team and contributors for the continued success of PRISM. May it continue to inspire, inform, and celebrate the essence of SOET for years to come

Dear Readers,

It is with great pride that I contribute to this edition of PRISM, the quarterly newsletter of the School of Engineering and Technology (SOET) at K.R. Mangalam University. PRISM has consistently served as a platform for intellectual and creative expression, highlighting the academic and co-curricular achievements of our students, faculty, and alumni while reflecting the institution's commitment to excellence.

The previous editions of PRISM have been commendable in presenting diverse perspectives, achievements, and innovative ideas from across the SOET community. These editions have not only showcased the accomplishments of our institution but have also encouraged a culture of continuous learning, collaboration, and innovation. I would like to extend my sincere appreciation to the editorial team for their dedication and meticulous efforts in ensuring the quality and success of each publication.

At the Internal Quality Assurance Cell (IQAC), we believe that initiatives such as PRISM contribute significantly to strengthening the academic environment and promoting a culture of knowledge sharing. The newsletter serves as an important medium that connects students, faculty, alumni, and industry professionals, fostering a collaborative and forward-looking academic community.

As we move forward, I am confident that the editorial team will continue to enhance the quality and impact of PRISM through their innovative approach and commitment. I encourage all contributors to share their ideas, research insights, and achievements so that PRISM continues to serve as a source of inspiration and a reflection of the talent and dedication 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 this newsletter continue to inform, inspire, and celebrate the achievements of the SOET community in the years to come.

Warm Regards,

Dr. Shikha Dutt Sharma

PRISM - Editor

Coordinator, IQAC

K.R. Mangalam University

WORDS FROM THE LEADERSHIP

FROM THE VICE CHANCELLOR'S DESK

As you embark on the next phase of your lives, I am confident that the education and experiences you have gained at KRMU will empower you to face future challenges with confidence and determination.

Dear Readers,

I extend my sincere gratitude and congratulations to the editorial team for the successful production of yet another edition of PRISM- School of Engineering and Technology Newsletter. This initiative has become a distinguished platform for faculty and students to exhibit their academic achievements, research contributions, and creative talents.

It is a matter of great pride to announce that PRISM has now reached its second issue of year 2025, firmly establishing itself as a significant tradition at K.R. Mangalam University. Beyond its role as a publication, PRISM serves as a testament to the academic rigor and creative expression that define the School of Engineering and Technology.

For our graduating students, this edition holds special significance as it captures the essence of your academic journey, the inspiration derived from your mentors, and the challenges you have successfully navigated. It stands as a tribute to your perseverance and dedication in the pursuit of knowledge and skills essential for personal and professional growth.

As you embark on the next phase of your lives, I am confident that the education and experiences you have gained at KRMU will empower you to face future challenges with confidence and determination. I extend my best wishes for success in all your endeavours and career aspirations.

The production of PRISM is a commendable achievement, reflecting the exceptional mentorship and guidance of our faculty and the remarkable creativity and enthusiasm of our students. This publication is a shining example of collaboration and excellence, and I am pleased to see it evolve as a cornerstone of our university's academic culture.

Let us continue to uphold the legacy of PRISM as a reflection of innovation, scholarship, and the vibrant spirit of KRMU. Congratulations to all contributors for this outstanding accomplishment.

Prof. (Dr.) Raghuvir Singh

Vice Chancellor

K.R. Mangalam University

FROM THE DEAN'S DESK

On behalf of the school, I extend my heartfelt congratulations to the dedicated editorial team of PRISM for their relentless efforts in curating this exceptional edition for the fourth quarter of 2025

Dear Readers,

It is an honor to share my thoughts for this edition of *PRISM*, the quarterly magazine of the School of Engineering and Technology (SOET) at K.R. Mangalam University. *PRISM* stands as a vibrant platform, enabling our students and faculty to showcase their technical expertise, literary creativity, achievements, and the diverse activities of our school.

The magazine serves as a conduit for our students to articulate their thoughts and unleash their creativity, fostering a thriving culture of innovation and intellectual growth. Additionally, *PRISM* plays a pivotal role in connecting our stakeholders, particularly our alumni, with the SOET community. Through their shared insights and accomplishments, our alumni enrich the magazine and provide invaluable inspiration to our current students by highlighting the diverse career trajectories and achievements they have attained.

On behalf of the school, I extend my heartfelt congratulations to the dedicated editorial team of *PRISM* for their relentless efforts in curating this exceptional edition for the **fourth quarter of 2025**. Your unwavering commitment and hard work are deeply appreciated, and I am confident that *PRISM* will continue to serve as a beacon of knowledge, creativity, and connectivity within our community.

Dr. Pankaj Agarwal

Dean, School of Engineering & Technology

K.R. Mangalam University

ABOUT SCHOOL: VISION & MISSION

The School of Engineering & Technology at K.R. Mangalam University offers various undergraduate and postgraduate programs. The aim of these programs is to equip the students with knowledge, skills and provide a professional approach in the field of Engineering and Technology, to make their capable in successfully meeting the present requirements and future challenges in the Engineering Profession. SOET brings together outstanding academicians, industry professionals and experienced researchers to impart hands-on and multi-disciplinary learning experience.

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 AND STUDENTS

Dr. Yogita Yashveer Raghav has served as a Member of the Technical Program Committee at IMPACT 2025 – International Conference on Intelligent Machine Processes and AI-Centric Technologies, held on 5–6 December 2025 at Birla Institute of Technology (BIT), Mesra, Patna Campus, India.

Springer

FIRST INTERNATIONAL CONFERENCE ON INTELLIGENT MACHINE PROCESSES AND AI-CENTRIC TECHNOLOGIES (IMPACT 2025)

CERTIFICATE

OF APPRECIATION

This is to certify that Dr. Yogita Yashveer Raghav has served as a member of Technical Program Committee of IMPACT 2025 - International Conference on Intelligent Machine Processes and AI-Centric Technologies Organized at Birla Institute of Technology, Mesra, Patna Campus, India on 5-6 December 2025.

The Organizing Committee expresses sincere gratitude for his/her valuable support.

Dr. Anand Kumar Sinha, Patron | Dr. Ayan Kumar Das, Convenor | Dr. Gyanendra Tiwary, Convenor | Dr. Amit Prakash, Convenor | Dr. Sheel Shalini, Organizing secretary

Dr. Saneh Lata Yadav, faculty member of the School of Engineering and Technology, K.R. Mangalam University, was recognized for her academic contribution by serving as a member of the Technical Program Committee for the First International Conference on Intelligent Machine Processes and AI-Centric Technologies (IMPACT 2025). The conference was organized by the Birla Institute of Technology (BIT), Mesra – Patna Campus, India, on 5–6 December 2025. Her role in the Technical Program Committee reflects her active engagement in the global research community and her contribution to promoting advancements in intelligent machine processes and AI-driven technologies. This recognition highlights the commitment of SOET faculty members toward academic excellence, research collaboration, and knowledge dissemination at international platforms.

Springer

FIRST INTERNATIONAL CONFERENCE ON INTELLIGENT MACHINE PROCESSES AND AI-CENTRIC TECHNOLOGIES (IMPACT 2025)

CERTIFICATE

OF APPRECIATION

This is to certify that Dr. Saneh Lata Yadav has served as a member of Technical Program Committee of IMPACT 2025 - International Conference on Intelligent Machine Processes and AI-Centric Technologies Organized at Birla Institute of Technology, Mesra, Patna Campus, India on 5-6 December 2025.

The Organizing Committee expresses sincere gratitude for his/her valuable support.

Dr. Anand Kumar Sinha, Patron | Dr. Ayan Kumar Das, Convenor | Dr. Gyanendra Tiwary, Convenor | Dr. Amit Prakash, Convenor | Dr. Sheel Shalini, Organizing secretary

Dr. Surabhi Shanker, faculty member of the School of Engineering and Technology, K.R. Mangalam University, was recognized for her academic contribution by serving as a Session Chair at the 2nd International Conference on Intelligent Systems for Cybersecurity (ISCS 2025). The conference was organized by the Department of Computer Science & Engineering, The NorthCap University, Gurugram, in association with IEEE and IEEE Delhi Section, on 14–15 November 2025.

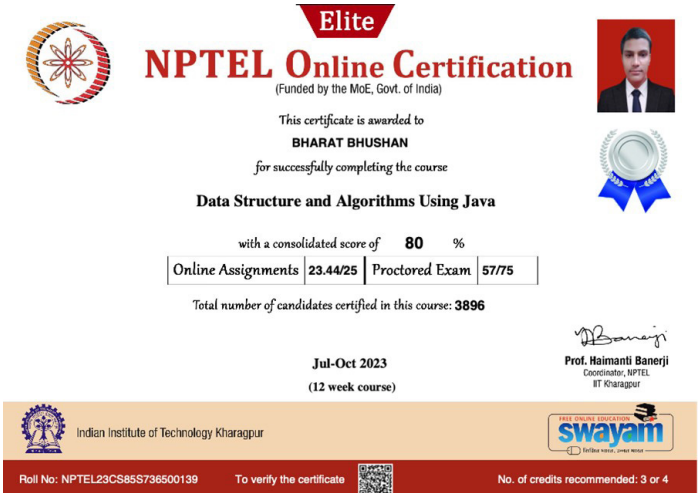
Her role as Session Chair reflects her active participation in the international research community and her contribution to fostering discussions and knowledge exchange in the domain of cybersecurity and intelligent systems. This recognition highlights the continued commitment of SOET faculty toward academic excellence, research engagement, and collaboration at global platforms.

Bharat Bhushan (B.Tech CSE, Batch 2022–26) has earned a professional certification titled Data Structure and Algorithms Using Java from NPTEL (Issue Date: 1 October 2023, Lifetime Validity).

This certification validates his understanding of core data structures (such as arrays, linked lists, stacks, queues, trees, and graphs) and algorithmic techniques implemented in Java. It demonstrates competency in problem-solving, logical thinking, and writing efficient, optimized code—key skills required for technical interviews, software development roles, and competitive programming.

Technology Domain: Java

Key Skills: Data Structures, Algorithms, Analytical & Problem-Solving Skills



RESEARCH & INNOVATION

Book Chapter Publication

1. Dr. Surabhi Shanker published the book chapter "Generative AI Models: Unraveling How Does Generative AI Work" in Generative Artificial Intelligence: Technology and Applications, CRC Press, E-ISBN: 9781003565703, SCOPUS Indexed (International Book Chapter, 2024 Q3), on 24-12-2025.
2. Dr. Surabhi Shanker published the book chapter "Generative Artificial Intelligence Foundations and Its Transformative Impact on Human Lives" in Generative Artificial Intelligence: Technology and Applications, CRC Press, E-ISBN: 9781003565703, SCOPUS Indexed (International Book Chapter, 2024 Q3), on 24-12-2025.
3. Dr. Prabhakar Bhandari published the book chapter "Design and Exergetic Analysis of Combined Wavy Groove and Delta Wing Vortex Generator for Thermal Management in a Solar Air Heater" in Advancement in Combustion Technologies Towards Net Zero Carbon Emission, Springer Nature, E-ISBN: 978-981-95-2239-2, P-ISBN: 978-981-95-2238-5, SCOPUS Indexed (International Book Chapter, 2024 Q3), on 31-12-2025.
4. Dr. Meenu published the book chapter "AI-Driven Autonomous Vehicles" in Artificial Intelligence for Autonomous Vehicles and Driver Assistance Systems, CRC Press, E-ISBN: 978-1-003-51942-3, P-ISBN: 978-1-032-85688-9, SCOPUS Indexed (International Book Chapter, 2024 Q3), on 12-12-2025.
5. Dr. Meenu published the book chapter "Introduction to Camera Sensing Technologies and AI in Mobility" in Artificial Intelligence for Autonomous Vehicles and Driver Assistance Systems, CRC Press, E-ISBN: 978-1-003-51942-3, P-ISBN: 978-1-032-85688-9, SCOPUS Indexed (International Book Chapter, 2024 Q3), on 12-12-2025.

Journal Research Paper Publication

1. Dr. Saneh Lata Yadav – A Hybrid FAHP–Entropy–TOPSIS Model for Selecting the Facility Layout in Small-Scale Manufacturing in Springer Nature, by Frontiers in Mechanical Engineering with E-ISSN 2297-3079 – published on 9th December 2025.
2. Dr. Meenu – Real-Time Drowsiness Detection and Classification with Deep Learning Model in IIETA, by Ingénierie des Systèmes d'Information with E-ISSN 2116-7125 and P-ISSN 1633-1311 – published on 8th December 2025.
3. Mr. Rupesh Kumar Tipu and Dr. Preeti Rathi – Optimizing Sustainable Blended Concrete Mixes Using Deep Learning and Multi-Objective Optimization in Springer Nature, by Scientific Reports with E-ISSN 2045-2322 – published on 5th October 2025.
4. Dr. Kaushal Kumar and Dr. Prawar – Potential Utilization of Grounded Bottom Ash for Sustainable Stowing Applications in WSEAS Press, by Transactions on Environment and Development with E-ISSN 2224-3496 and P-ISSN 1790-5079 – published on 4th October 2025.
5. Mr. Rupesh Kumar Tipu and Dr. Sagar Paruthi published "Stacked Ensemble Intelligence for Predicting Compressive Strength of CDW-Incorporated Sustainable Concrete" in Iranian Journal of Science and Technology, Transactions of Civil Engineering, Springer Nature, E-ISSN: 2364-1843, P-ISSN: 2228-6160, SCOPUS Indexed (Q2), on 24-12-2025.
6. Mr. Mohammad Ajjaz published "A Hybrid Encryption Model for Medical Image Security in IoT Healthcare" in Discover Computing, Springer, E-ISSN: 2948-2992, SCOPUS Indexed (Q2), on 24-12-2025.
7. Dr. Kaushal Kumar published "Performance Evaluation of Machining Parameters in Turning Operations of 17-4 PH Steel Using Hybrid ANN-GA and Nano Cutting Fluids" in Journal of Materials Engineering and Performance, Springer Nature in partnership with ASM International, E-ISSN: 1544-1024, P-ISSN: 1059-9495, indexed in WOS (Q3) and SCOPUS (Q2), on 23-12-2025.
8. Dr. Kaushal Kumar published "Enhanced Sliding Wear and Cavitation Erosion Resistance of WC-17Co Graphene Composite Coatings on AISI 304 Stainless Steel Deposited by HVOF" in Journal of Bio and Tribo-Corrosion, Springer, E-ISSN: 2198-4239, P-ISSN: 2198-4220, SCOPUS Indexed (Q1), on 21-12-2025.
9. Dr. Prabhakar Bhandari published "Innovative Spherical Turbulator Configurations for Enhanced Solar Air Heater Performance: A Numerical and Analytical Study" in Energy, Elsevier, E-ISSN: 1873-6785, P-ISSN: 0360-5442, indexed in WOS (Q1) and SCOPUS (Q1), on 15-12-2025.
10. Mr. Rupesh Kumar Tipu, Dr. Seema Raj, and Dr. Dilraj Preet Kaur published "Optimizing Brick Manufacturing: Integrating Ceramic Waste and Predictive Analytics for Sustainable Production" in Journal of Material Cycles and Waste Management, Springer, E-ISSN: 1611-8227, P-ISSN: 1438-4957, indexed in WOS (Q3) and SCOPUS (Q2), on 29-11-2025.
11. Dr. Saneh Lata Yadav published "Benchmarking Machine Learning Models for Obesity Classification with SHAP-Based Interpretability" in International Journal of Computational Intelligence Systems, Springer, E-ISSN: 1875-6883, indexed in WOS (Q2) and SCOPUS (Q1), on 27-12-2025.

12. Dr. Kaushal Kumar published "Air Jet Erosion Performance and Predictive Modeling of Cold Sprayed WC-Co Coatings on CA6NM Steel" in International Journal of Advanced Manufacturing Technology, Springer Nature, E-ISSN: 1433-3015, P-ISSN: 0268-3768, indexed in WOS (Q2) and SCOPUS (Q1), on 18-11-2025.
13. Dr. Reenu published "Real-Time Deforestation Anomaly Detection Using YOLO and LangChain Agents for Sustainable Environmental Monitoring" in Scientific Reports, Springer Nature, E-ISSN: 2045-2322, indexed in WOS (Q1) and SCOPUS (Q1), on 14-11-2025.
14. Dr. Kaushal Kumar published "Sustainable Advances in Activated Carbon for Environmental and Industrial Applications" in Environmental Progress and Sustainable Energy, John Wiley & Sons, E-ISSN: 1944-7450, P-ISSN: 1944-7442, indexed in WOS (Q3) and SCOPUS (Q2), on 17-11-2025.
15. Dr. Kaushal Kumar and Dr. Prawar published "Automated Brain Tumor Detection Using Convolutional Neural Network" in Biotechnology and Applied Biochemistry, John Wiley & Sons, E-ISSN: 1470-8744, P-ISSN: 0885-4513, indexed in WOS (Q3) and SCOPUS (Q1), on 11-10-2025.
16. Dr. Kaushal Kumar and Dr. Prawar published "Analysis of the Performance Characteristics of Mild Steel Based Hydrodynamic Journal Bearings [15W30] Under Varying Conditions" in WSEAS Transactions on Fluid Mechanics, WSEAS Press, E-ISSN: 2224-347X, P-ISSN: 1790-5087, SCOPUS Indexed (Q3), on 18-11-2025.
17. Prof. (Dr.) Aman Jatain published "Integrating IoT and AI Technologies into School Curriculums: A Framework for Promoting Physical Literacy and Long-Term Health" in Lex Localis – Journal of Local Self-Government, ISSN: 1855-363X (E-ISSN), 1581-5374 (P-ISSN), indexed in WOS (Q4) and SCOPUS, on 10-10-2025.
18. Ms. Mansi Kajal published "Smooth Gradient Loss: A Loss Function for Gradient Regularization in Deep Learning Optimization" in The Journal of Supercomputing, Springer, E-ISSN: 1573-0484, P-ISSN: 0920-8542, indexed in WOS (Q2) and SCOPUS (Q1), on 14-10-2025.
19. Mr. Rupesh Kumar Tipu published "A Hybrid Deep Learning and Evolutionary Framework for Energy-Aware Interior Augmentation via Photorealistic Visual Illusions" in Engineering Applications of Artificial Intelligence, Elsevier, E-ISSN: 1873-6769, P-ISSN: 0952-1976, indexed in WOS (Q1) and SCOPUS (Q1), on 14-10-2025.
20. Dr. Shahjad submitted the manuscript titled "A Meta-Review of Learning Apps and Design" to Knowledge Management & E-Learning: An International Journal (E-ISSN: 2073-7904), currently under review as of 22-11-2025.
21. Mr. Mohammad Ajjaz submitted the manuscript titled "MedCryptoDNA: An Advanced Hybrid Encryption Model for Medical Image Security in IoT-Enabled Healthcare Systems" to Discover Computing, Springer, currently under review as of 20-10-2025.
22. Dr. Rakhi Dua submitted the manuscript titled "Reliability Modelling and Predictive Maintenance Integration for an Induced Draft Fan System Using Semi-Markov and AI-Based Techniques" (ISSN: 1055-6796), currently under review as of 30-11-2025.

Patent Publication

1. Dr. Aarti Sangwan – System for IoT-Enabled Real-Time Monitoring and Management of Pharmaceutical Medicine Storage and Distribution, Patent Published with Application No. 202511**** – published on 7th November 2025.
2. Dr. Aarti Sangwan – AI Based Nanoparticle Based Cancer Medication Device, Design Registration No. 439567-001 – published on 6th December 2025.
3. Mr. Vishwanil Suman – Evaluating the Effectiveness of Multifactor Authentication Online Protecting Sensitive Data, Patent Published with Application No. 202531062850A – published on 7th November 2025.
4. Mr. Manish Kumar – AI-Based Student Fear Detection Computing Device, UK Design Registration No. 6427726 – published on 3rd October 2025.
5. Dr. Prabhakar Bhandari was granted the South African patent titled "A Hybrid Packed Bed Heat Regenerating Reservoir System", Patent No. 2025/02407, on 29-10-2025.
6. Dr. Prabhakar Bhandari, Mr. Indrajeet Kumar, and Mr. Paramjeet Kaur published the Indian patent titled "Hybrid Cooling in Motorcyclist Apparel for Heat to Cold Transitions", published on 12-12-2025 in the Indian Patent Office Journal.
7. Dr. Aarti Sangwan published the Indian patent titled "Method for Continuous IoT-Based Compliance Monitoring in Pharmacy Distribution", published on 14-11-2025 in the Indian Patent Office Journal.
8. Ms. Lucky Verma registered the UK design titled "AI-Enhanced Smart Microbiological Analyzer", Design No. 6484902, on 14-11-2025.
9. Dr. Anshu published the Indian patent titled "A System and Method for AI-Based Crop Disease Diagnosis and Severity Assessment", published on 14-11-2025 in the Indian Patent Office Journal.
10. Dr. Reenu published the Indian patent titled "FL-IDSense: Privacy-Preserving Intrusion Detection Using Federated Learning in Distributed IoT Networks", Application No. 2531091220, published on 10-10-2025 in the Indian Patent Office Journal.

Conference Publication (October-December 2025)

1. Ms. Asha Sohal, Dr. Monika Khatkar, and Ms. Jyoti Chaudhary published "An Effective Approach for Load Balancing and Resource Scheduling in Cloud-Based Healthcare Communication" in CISCom 2025 (International Conference on Communication and Intelligent Systems) on 26-11-2025.
2. Dr. Prabhakar Bhandari published "Mechanical Characterization of Basalt Fiber Reinforced Poly Lactic Acid Bio Composite" in International Conference on Recent Trends in Materials and Manufacturing Technologies with Computational Technologies (ICTTMMTCT 2024), American Institute of Physics (AIP Conference Proceedings), E-ISSN: 1551-7616, P-ISSN: 0094-243X, SCOPUS Indexed, on 31-12-2025.
3. Dr. Prabhakar Bhandari published "Numerical Study of Three Stepped Open Micro Pin Fin Heat Sink Using Single Phase Liquid Fluid Flow" in International Conference on Recent Trends in Materials and Manufacturing Technologies with Computational Technologies (ICTTMMTCT 2024), American Institute of Physics (AIP Conference Proceedings), E-ISSN: 1551-7616, P-ISSN: 0094-243X, SCOPUS Indexed, on 31-12-2025.
4. Dr. Prabhakar Bhandari published "Influence of Different Substrate Material on Thermal Performance for Open Stepped Micro Pin Fin Heat Sink" in International Conference on Recent Trends in Materials and Manufacturing Technologies with Computational Technologies (ICTTMMTCT 2024), American Institute of Physics (AIP Conference Proceedings), E-ISSN: 1551-7616, P-ISSN: 0094-243X, SCOPUS Indexed, on 31-12-2025.
5. Dr. Prabhakar Bhandari published "Comparative Numerical Investigation of Four Stepped Micro Pin Fin Heat Sink in Electronic Cooling" in International Conference on Recent Trends in Materials and Manufacturing Technologies with Computational Technologies (ICTTMMTCT 2024), AIP Conference Proceedings, E-ISSN: 1551-7616, P-ISSN: 0094-243X, SCOPUS Indexed, on 31-12-2025.
6. Dr. Pankaj Agarwal published "An Influence-Centric Approach to Information Propagation and Community Formation in Social Networks" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
7. Dr. Prabhakar Bhandari published "Protecting Against Adversarial Attacks in Graph Neural Networks: Vulnerability Assessment and Parallel Defense Strategies" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
8. Dr. Amar Saraswat published "Advanced Epilepsy Severity Analysis and Diagnosis via EEG Signal Classification Using Modified LeNet-CNN" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
9. Dr. Surendra Kumar Yadav published "Leveraging Bio-Inspired Algorithms and Ensemble Learning for Robust Twitter Spam Detection" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
10. Dr. Surendra Kumar Yadav published "An Intelligent Hierarchical Structure for Cyber-Physical System Security Establishment" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
11. Dr. Swati published "Angle-Based Routing and Path-Aware Clustering for Energy Efficiency in Cluster-Based WSN" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
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15. Dr. Meenu published "Improved Interpretability Model for Heart Disease Diagnosis Using Modified Particle Swarm Optimization" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.

16. Dr. Meenu published "Leveraging Machine Learning for the Classification of Cardiac Ailments in ECG Signals" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
17. Dr. Meenu published "Secured Data Transmission in WSN Using Hybrid Pareto Optimality-Based Lion Swarm Optimization and AES Algorithm" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025
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20. Dr. Monika Khatkar published "Secure and Privacy-Focused Data Transmission Protocols for Medical IoT Applications" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
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23. Dr. Shweta Bansal published "Developing a Cost-Effective Group Key Management Solution for the Internet of Things" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
24. Dr. Shweta Bansal published "Edge-AI-Driven Malignancy Detection in Breast Histopathology and Whole Slide Images Using Deep Learning Models" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
25. Dr. Shweta Bansal published "Secure Communication in Wireless Sensor Networks Using Cuckoo Hash-Based Multi-Factor Authentication" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
26. Dr. Shweta Bansal published "Hybrid VWAE-ASFO Algorithm for Data Collection and Performance Enhancement in Wireless Sensor Networks" in IEEE Xplore with 2025 World Skills Conference on Universal Data Analytics and Sciences (WorldSUAS), E-ISBN: 979-8-3315-3925-2, P-ISBN: 979-8-3315-3926-9, SCOPUS Indexed, on 17-10-2025.
27. Dr. Saneh Lata Yadav published "Optimizing ELM Using Whale Optimization Algorithm for Grid Stability Classification" in IEEE Xplore with International Conference on Reliability, Infocom Technologies and Optimization (ICRITO 2025) – Trends and Future Directions, E-ISSN: 2769-2884, SCOPUS Indexed, on 27-11-2025.
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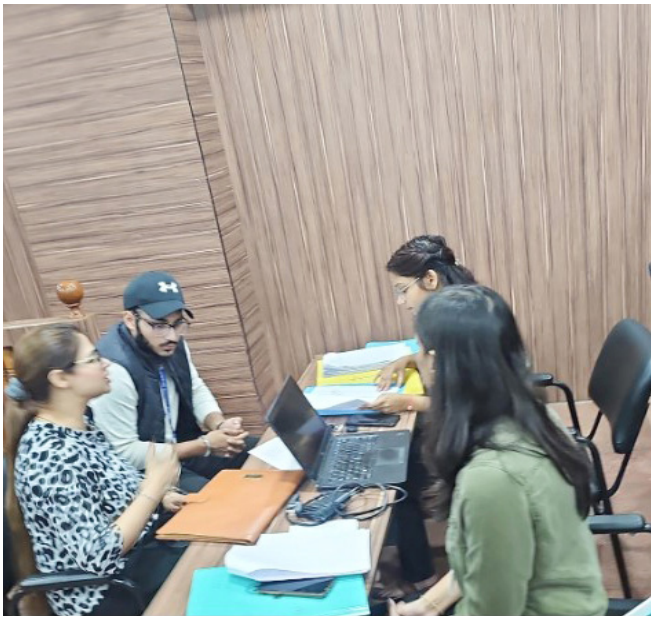
29. Dr. Surabhi Shanker published "Digital Realities in Cybersecurity: Advancing Image Processing Techniques for Deepfake Detection and Real-Time Defense" in ICT Systems and Sustainability, Springer Nature, E-ISBN: 978-3-032-06662-6, P-ISBN: 978-3-032-06661-9, SCOPUS Indexed, on 30-10-2025.
30. Dr. Shweta Bansal and Ms. Neetu Chauhan published "BiLSTM-Based Regression Model for Electricity Energy Consumption Prediction" in Sadhana – Academy Proceedings in Engineering Sciences, Indian Academy of Sciences, ISSN: 0973-7677, indexed in WOS (Q3) and SCOPUS (Q1), on 25-10-2025.

PARENT-TEACHER INTERACTION

The School of Engineering and Technology (SOET), K.R. Mangalam University, organized a Parents–Teacher Meeting (PTM) on 22 November 2025 at the Multipurpose Room, A Block. The meeting aimed to strengthen collaboration between parents and faculty to support students' academic excellence and holistic development.

Faculty members shared detailed insights into students' academic performance, attendance, internal assessments, and classroom engagement. Discussions focused on strengths, areas for improvement, skill enhancement initiatives, project-based learning, discipline, and time management. Parents were also briefed about university policies, upcoming academic events, internship opportunities, and placement-oriented training programs.

The session witnessed active participation and constructive dialogue, with parents appreciating the transparent communication and personalized interactions. The PTM effectively reinforced the partnership between parents and the academic community, contributing to students' continuous academic and personal growth.



Parents interacting with faculty of mathematics to discuss performance of the ward

Parents interaction with examination personnel to understand solution of the raised concern

Parents interacting with Dr. Meenu to discuss the holistic growth and development of their ward

CLUBS & CENTERS

TECH NEXUS CLUB

Tech Fusion 2.0 – Inter-University Mega Event

The Tech Nexus Club of the School of Engineering and Technology successfully organized Tech Fusion 2.0, an inter-university technical, creative, gaming, and sports fest, on 18 November, K.R. Mangalam University. The event was conducted in offline mode and witnessed enthusiastic participation from 350+ students representing more than five universities across Delhi-NCR.

Organized in collaboration with the Mediaverse Club and the Sports Club, the event was convened by Dr. Reenu Batra, with Ms. Megha Sharma, Mr. Puneet, and Dr. Ritika serving as co-conveners, supported by a team of dedicated student volunteers.

Tech Fusion 2.0 featured a diverse set of parallel competitions spanning multiple domains. Technical and creative events included Logo Locha (Logo Design Competition), Photography Competition, and ReelBazzz (Reel Making Competition), while the gaming and sports segment comprised Esports tournaments (BGMI, Free Fire, and Call of Duty) along with Chess and Table Tennis matches. These activities created a vibrant, festival-like atmosphere across the campus and provided participants with a platform to demonstrate their creativity, strategic thinking, and competitive skills.

The event generated strong engagement both on campus and digitally, recording over 34,000 Instagram impressions during the event cycle. It strengthened inter-club collaboration, encouraged inter-university interaction, and enhanced leadership and organizational skills among student volunteers.

Overall, Tech Fusion 2.0 emerged as a landmark student-driven event that successfully combined innovation, competition, and collaboration. The event highlighted the vibrant student culture at K.R. Mangalam University and reinforced the institution's commitment to holistic student development and large-scale inter-university initiatives.

Felicitating the winners of various competitions during Tech Fusion 2.0 at K.R. Mangalam University.

Students competing in the Chess event at Tech Fusion 2.0, reflecting focus, strategy, and sportsmanship.

TECHTALKS @TECH NEXUS: AI V/S HUMANITY – DEBATING THE BALANCE BETWEEN PROGRESS AND ETHICS

Tech Nexus organized TechTalks @Tech Nexus: AI v/s Humanity on 4 November 2025 at B-517, K.R. Mangalam University, as an offline technical debate under the aegis of Student Welfare. Convened by Prof. (Dr.) Anjana Singh (Dean, Student Welfare), with faculty co-conveners Dr. Reenu and Ms. Megha Sharma, the event brought together students from various schools for an engaging intellectual exchange.

Centered on the motion "Debating the Balance Between Progress and Ethics," the debate examined the growing influence of Artificial Intelligence and its societal implications. Participants were divided into teams supporting and opposing the motion, presenting well-researched arguments on automation, data privacy, algorithmic bias, and the social responsibilities of technologists. The structured format was followed by an interactive Q&A session, moderated by faculty to ensure constructive dialogue and academic rigor.

The event promoted critical thinking, ethical awareness, and interdisciplinary engagement. Students enhanced their public speaking, research, and analytical skills while reflecting on the long-term impact of AI on humanity. The active participation and thoughtful discussions reinforced the university's commitment to responsible innovation and reflective academic discourse.

Overall, the event served as a meaningful platform for dialogue on technology and ethics, contributing positively to the campus's academic and intellectual culture.

Students engaged in an active debate session

CENTRE OF EXCELLENCE- ARTIFICIAL INTELLIGENCE

Deep Data Hack Data Science Hackathon

The Centre of Excellence in Artificial Intelligence, in collaboration with the School of Engineering and Technology (SOET), organized Deep DataHack 2.0 – Data Science Hackathon on 8 October 2025 at A-213, A Block, K.R. Mangalam University. Conducted as an intra-university offline competition, the event brought together graduate students to apply AI, deep learning, and data science techniques to real-world challenges.

A total of 168 students participated, forming over 50 teams comprising 3–5 members each. The hackathon commenced with an inauguration ceremony where dignitaries highlighted the growing importance of AI and data science. Participants then engaged in a 12-hour intensive problem-solving session, working on real-world datasets, developing machine learning models, and presenting innovative solutions.

Mentorship support was provided throughout the event by faculty members and experts to guide teams in refining their approaches. Solutions were evaluated based on creativity, technical complexity, applicability, and presentation quality. The panel included Ms. Shikha Munjal, Associate Director at Fidelity International, Gurugram, who served as the external judge. The top-performing teams were awarded prizes:

- First Position: Team Code Cookers – ₹5000
- Second Position: Team Error – ₹3000
- Third Position: Team TriByte – ₹2000

The hackathon offered hands-on exposure to real-world datasets, encouraged collaboration and innovation, and strengthened participants' technical and analytical skills. It reinforced the university's commitment to nurturing a vibrant AI and data science ecosystem on campus while promoting teamwork, creativity, and critical thinking.

Overall, Deep DataHack 2.0 emerged as a highly impactful academic initiative, energizing students to continue exploring and innovating in the dynamic field of artificial intelligence and data science. The hackathon offered hands-on exposure to real-world datasets, encouraged collaboration and innovation, and strengthened participants' technical and analytical skills. It reinforced the university's commitment to nurturing a vibrant AI and data science ecosystem on campus while promoting teamwork, creativity, and critical thinking.

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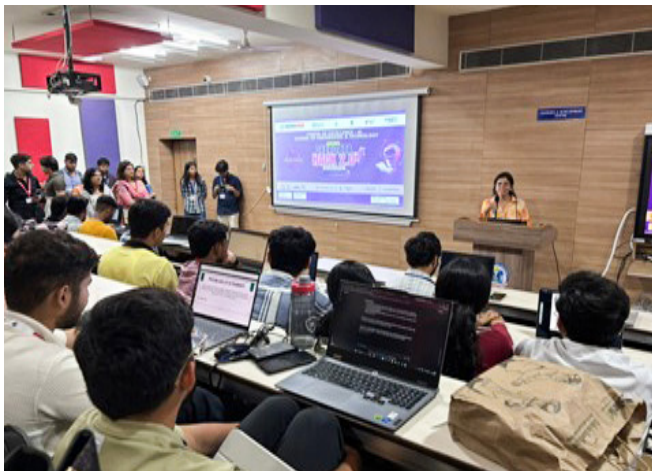

Judge for the event interacting with Participants

Felicitation to Team

AARAMBHATHON (Hackathon)

The Centre of Excellence – AI, School of Engineering & Technology, K.R. Mangalam University, organized AARAMBHATHON 2025 on 17 November 2025 as an intra-school hackathon exclusively for first-year SOET students. A total of 345 participants and 170 teams registered, with the top 100 teams shortlisted for Round 1 and 10 teams advancing to the final round.

The event aimed to foster innovation, coding skills, teamwork, and structured problem-solving among first-year students. Participants worked intensively on problem statements, developed solutions within time constraints, and presented their projects before a panel of judges.

The top three winning teams were as follows:

- First Prize: Science Musketeers (₹5000) – Vasu Aggarwal, Pratham, and Chirag Virdi, students of B.Tech CSE (AI/ML), K.R. Mangalam University.
- Second Prize: TechTitans (₹3000) – Rishika Singh, Adya Agarwal, Shlok Garg, and Pragya Sinha, students of B.Tech CSE (AI/ML), K.R. Mangalam University.

- Third Prize: Synapse (₹2000) – Anvesha Saxena, Vidhi Goyal, and Dhananjai Avva, students of B.Tech CSE (AI/ML), K.R. Mangalam University.

Aligned with SDGs 4 and 9, the hackathon successfully created a dynamic environment of experiential learning, creativity, and healthy competition, strengthening the technical culture within the department.

Certificate distribution to the participants

Participants and organizing team of Aarambharhon

Winners of the event

MANTHAN AI–2025 (AI Summit)

The Centre of Excellence – Artificial Intelligence, in collaboration with SOET, IBM, and CollegeDekho, organized MANTHAN AI–2025 (AI Summit) on 26th–27th November 2025 at K R Mangalam University, Gurugram. The two-day summit served as a dynamic platform bringing together students, researchers, academicians, and industry experts to explore emerging trends and real-world applications in Artificial Intelligence.

The summit featured expert talks, keynote sessions, and interactive discussions led by distinguished professionals from leading organizations including IBM and Google Speakers shared insights on Machine Learning, Deep Learning, Generative AI, Blockchain, ethical AI, and evolving industry demands, providing participants with practical exposure beyond classroom learning. The sessions emphasized innovation, interdisciplinary collaboration, and the growing impact of AI across sectors.

The event commenced with a formal inauguration ceremony, where faculty members and experts highlighted the importance of AI-driven transformation and research-oriented learning. Throughout the summit, students actively engaged in discussions, Q&A sessions, and networking opportunities, strengthening their understanding of career pathways and research prospects in AI. MANTHAN AI–2025 aligned with Sustainable Development Goals including Quality Education (SDG 4), Decent Work and Economic Growth (SDG 8), and Industry, Innovation, and Infrastructure (SDG 9), reinforcing the university's commitment to future-ready skill development The summit concluded with a valedictory session and certificate distribution, marking the successful culmination of a knowledge-driven initiative that fostered innovation, awareness, and a strong AI learning ecosystem on campus.

Glimpses Of Event:

Code Canvas: Visual AI Tool Design Competition

CODE CANVAS: VISUAL AI TOOL DESIGN COMPETITION

The Centre of Excellence – Artificial Intelligence, in collaboration with the School of Engineering and Technology (SOET), organized Code Canvas: Visual AI Tool Design Competition on 11th November 2025, K.R. Mangalam University.

The inter-university competition aimed to provide undergraduate students with hands-on experience in designing interactive dashboards using AI-driven analysis and modern data visualization techniques. The event witnessed enthusiastic participation from multiple institutions, with over 40 teams comprising 3–5 members each. Participants worked on real-world datasets, transforming raw data into meaningful, visually compelling insights through analytical frameworks and visualization tools.

The event commenced with an inaugural address emphasizing the growing importance of AI-powered visualization in data interpretation and decision-making. This was followed by dataset release and a structured problem briefing outlining expectations for analytical depth and dashboard quality.

Faculty members and experts from the Centre of Excellence – AI provided continuous mentorship, guiding teams in refining their analytical approaches, visualization strategies, and technical implementation.

Final presentations were evaluated by industry professionals based on creativity, technical execution, insight generation, and overall interpretability of dashboards. The competition concluded with result announcement and prize distribution.

Team Hack Hub secured the first position (₹5000), followed by Team Midnight Coders in second place (₹3000) and Team Gen iTech in third place (₹2000). All the winning teams belonged to K.R. Mangalam University.

Code Canvas emerged as a highly impactful initiative, strengthening students' competencies in AI applications, data storytelling, analytical thinking, and dashboard development, while reinforcing the university's commitment to experiential, innovation-driven learning.

Centre of Excellence – Artificial Intelligence

CENTRE OF EXCELLENCE- CYBER SECURITY

Empowering the Digital Vanguard: A Deep Dive into the NASSCOM "Future Skill Prime" Orientation

On November 18, 2025, the Multipurpose Hall at K.R. Mangalam University buzzed with the energy of 148 students eager to define their professional future. The occasion was an orientation session on "Future Skill Prime," a landmark digital skilling initiative launched by MeitY and NASSCOM. The event, organized by the Centre of Excellence – Cyber Security in tandem with the School of Engineering & Technology (SOET), served as a strategic initiative to align the university's curriculum with the fast-moving landscape of Industry 4.0.

The guest of honor, Ms. Priyanka Bisht, Deputy Director at the Sector Skills Council, NASSCOM, steered the session by highlighting the profound shift occurring in the global job market. She elucidated how digital proficiency—specifically in high-growth domains like Cybersecurity, AI, Cloud Computing, and Data Science—has moved from being a "value-add" to an absolute necessity. Through a live demonstration, Ms. Bisht demystified the Future Skill Prime portal, showing students how to navigate its robust features, access government-subsidized learning pathways, and leverage industry-standard certifications that are recognized by top-tier tech employers.

Participants with the organizing team of "Future Skill Prime"

Glimpse of the orientation session "Future Skill Prime"

BRIDGING AI SKILLS AND EMPLOYABILITY

The Centre of Excellence – Cyber Security, SOET, organized a Workshop on "Bridging AI Skills and Employability" on November 21, 2025, at K R Mangalam University, Gurugram. The workshop was conceptualized to bridge the gap between academic learning and industry expectations by equipping students with practical, AI-driven skills essential for career advancement in a competitive job market.

The session was conducted by Mr. Ankit Jaiswal, Founder of Big Bang AI, who shared deep insights into Generative AI, GPT applications, and prompt engineering. He demonstrated how AI tools can be effectively leveraged for learning enhancement, coding assistance, resume optimization, and interview preparation. Special emphasis was placed on building ATS-friendly resumes, strengthening LinkedIn profiles, and adopting a disciplined, data-driven job application strategy.

Through live demonstrations and interactive discussions, participants explored structured prompt writing, personalized career planning, and the strategic use of AI for researching companies and tailoring interview responses. The workshop aligned technology with employability, highlighting how digital competencies can significantly enhance professional readiness.

The initiative successfully connected theoretical AI concepts with real-world career strategies, reinforcing the university's commitment to fostering innovation, digital literacy, and future-ready talent.

Mr. Ankit Jaiswal engaged with the students

Core organizing and extending team with the resource person- Mr. Ankit Jaiswal

Ms. Kriti Sharma and Dr. Anshu facilitating Mr. Ankit Jaiswal

INDUSTRIAL VISIT TO DUCAT GURGAON

The Centre of Excellence – Cyber Security, in collaboration with the School of Engineering & Technology, K.R. Mangalam University, organized an industrial visit to DUCAT Gurgaon on 28 November 2025 for BCA and PhD students. A total of 39 students participated in the offline visit. The visit featured expert-led sessions on Artificial Intelligence, Machine Learning, and Cybersecurity, along with hands-on demonstrations using Python, Scikit-Learn, Jupyter Notebook, and security-based datasets. Students explored AI-driven threat detection, ethical hacking concepts, vulnerability analysis, and real-world cybersecurity applications.

The visit provided valuable practical exposure to industry-oriented IT training and emerging technologies, strengthening students' understanding of AI-driven security operations and enhancing their readiness for careers in AI, Data Science, and Cybersecurity

Students visit to Ducat gurgaon

Partcipants with faculty members of KRMU

CENTRE OF EXCELLENCE IN ROBOTICS & AUTOMATION (COE-RA)

Industrial Visit to Xebia

On 28 November 2025, the Centre of Excellence in Robotics & Automation organized an Industrial Visit to Xebia, Sector 59, Gurugram, providing students with direct exposure to the dynamic IT industry environment. The visit was strategically planned to bridge the gap between classroom learning and real-world industry practices.The session commenced with an address by Ms. Gunjan (General Manager, Xebia), who outlined the company's work culture, technological domains, and evolving industry landscape. Students were introduced to contemporary software development methodologies such as Agile practices, DevOps integration, and cloud-based solutions. Interactive sessions led by Ms. Charu, Ms. Swati, and Ms. Deborah further deepened students' understanding of collaborative development models, project execution frameworks, and current technological trends.

Through expert interactions and structured discussions, students gained practical insights into industry expectations, essential technical competencies, and emerging career opportunities. The visit reinforced industry readiness enhanced professional awareness, and motivated participants to pursue skill development, certifications, and innovation-driven learning initiatives.

Session delivered by Ms. Gunjan Saini at Xebia, Gurugram

Session delivered by Ms. Swati at Xebia, Gurugram

Session delivered by Ms. Deborah at Xebia, Gurugram

Session delivered by Ms. Charu at Xebia, Gurugram

WORKSHOP ON ROBOT KINEMATICS

The Centre of Excellence in Robotics and Automation, SOET, in collaboration with AB6 Robotics, organized a Workshop on Robot Kinematics from 10th to 15th November 2025 at K.R. Mangalam University. The workshop was designed to provide an in-depth understanding of robotic motion, kinematic modeling, and industrial automation through expert-led sessions and hands-on training. The programme commenced with an inaugural ceremony attended by distinguished academicians, including Prof. (Dr.) Harish P. M., Dean, IIT Gandhinagar, along with industry experts from AB6 Robotics. The speakers highlighted the growing relevance of robotics and automation in engineering and research and emphasized the importance of strong industry–academia collaboration.

The workshop featured practical demonstrations of robotic arms, interactive sessions on forward and inverse kinematics, motion planning exercises, and real-time practice using robotics kits and simulation tools. Participants actively engaged in team-based challenges, problem-solving tasks, and hardware implementation activities, which helped strengthen their technical and analytical skills. As part of the concluding activities, a competition was conducted to evaluate the practical understanding of participants. Team 3 emerged as the winner of the AB6 Workshop, with Archit Srivastava, Govind, Ayushi Thakur, and Atharv Bisht securing the top position for their outstanding performance. The event concluded with a certificate and prize distribution ceremony, recognizing exceptional achievements and active participation. Overall, the workshop successfully reinforced the university's commitment to nurturing technical excellence and advancing robotics education through meaningful industry collaboration.

Prof. (Dr) Harish PM (Dean, IIT demonstrating the work of students)

Winners of Robotic Workshop

Certification Distribution to students

Group Photographs with AB6 Robotics Team


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INSTITUTION'S INNOVATION COUNCIL
AB6 ROBOTICS
CERTIFICATE
Of Completion
This certificate is presented to:
ATHARV BISHT OF SOET(KRMU)
for successfully completing the Workshop on Robot Kinematics & Hardware Implementation held from 10–15 November 2025, organized in collaboration with AB6 Robotics at K.R.Mangalam University.
Prof.Harish PM
Director-AB6 Robotics
IIT Gandhinagar
Mr.Suyash Patidar
Director-AB6 Robotics
Dr.Rakhi Dua
Convener,KRMU


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COMMUNITY CONNECT

AWARENESS PROGRAM ON RECENT TRENDS & TECHNOLOGIES IN COMPUTER SCIENCE IN NEARBY VILLAGE

The School of Engineering & Technology (SOET), in collaboration with the Centre of Excellence for Cloud Computing, organized an outreach awareness program at Govt. Girls School, Alipur, on 10 November 2025. The initiative focused on digital literacy, cybersecurity, women's safety in the digital world, and career opportunities in technology.

With participation from 21 SOET students, faculty members, and 66 school students, the session included interactive discussions on cyber hygiene, responsible technology use, and career guidance in STEM fields. Aligned with SDG 4 (Quality Education) and SDG 5 (Gender Equality), the program successfully promoted digital empowerment, community engagement, and women's participation in technology-driven careers.

SOET and the Centre of Excellence for Cloud Computing Organized an outreach awareness program on cybersecurity and digital literacy.

learning essential guidelines for a respectful and responsible life

Volunteers interacting with students in person

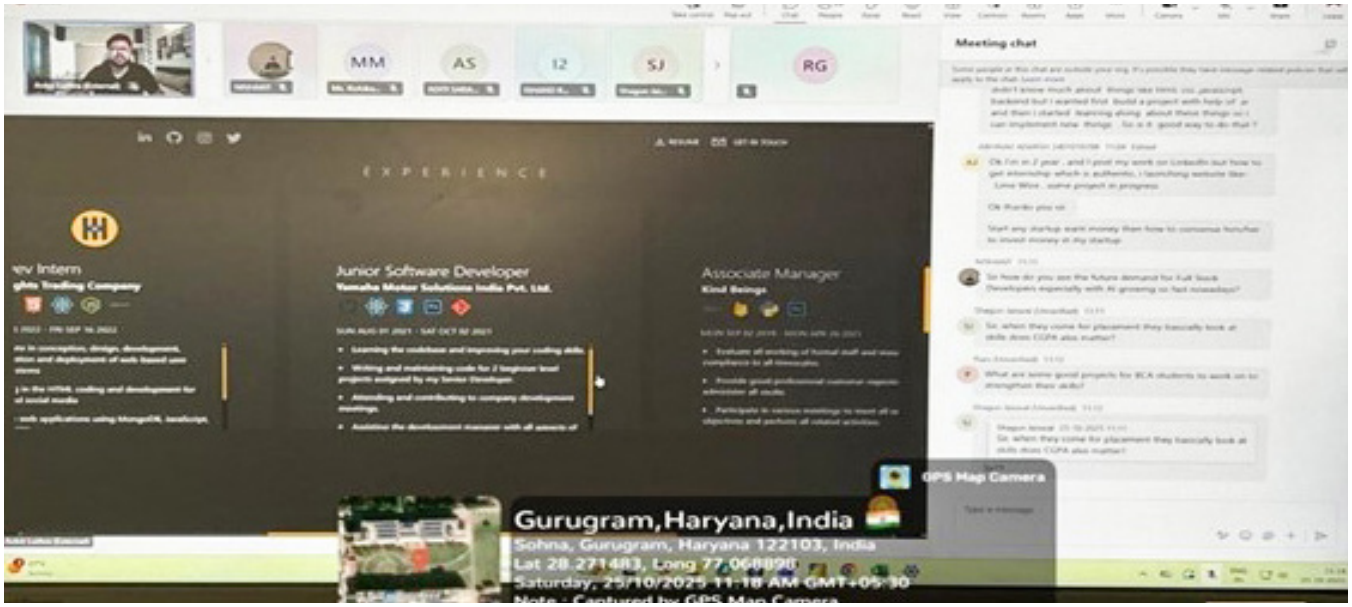
Empowering young minds through technology

EVENT CORNER

ALUMNI TALK SERIES

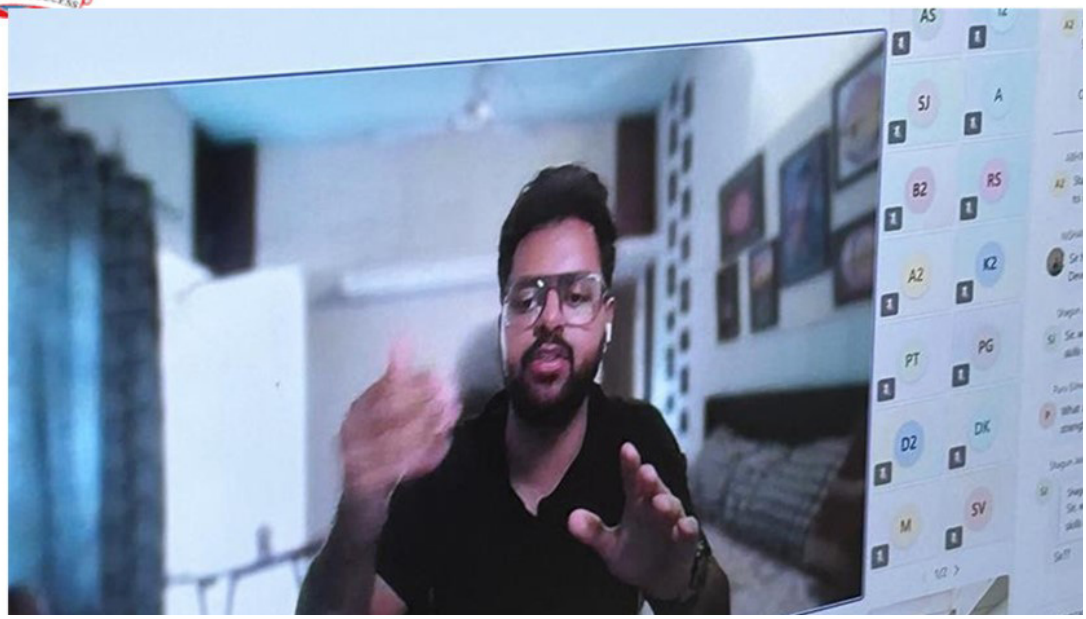
The School of Engineering and Technology (SOET), K.R. Mangalam University, conducted impactful sessions under its Alumni Talk Series during October to December 2025 in hybrid mode, continuing its commitment to strengthening industry–academia engagement.

On 25th October 2025, Mr. Ankit Luthra, B.Tech (CSE, 2019–2023) alumnus and Consultant (Software Engineer) at Ernst & Young (EY), delivered an insightful session titled "From MERN Stack to Generative AI: The Evolution of Modern Software Development." He shared his professional journey, highlighting the transition from full-stack development to AI-driven solutions, and emphasized the importance of adaptability, continuous learning, and mastering emerging technologies in today's dynamic tech ecosystem.



Mr. Ankit Luthra, B.Tech (CSE, 2019–2023) alumnus of K.R. Mangalam University and Consultant (Software Engineer) at Ernst & Young LLP (EY), showcasing his project during the Alumni Talk held on 25th October 2025.

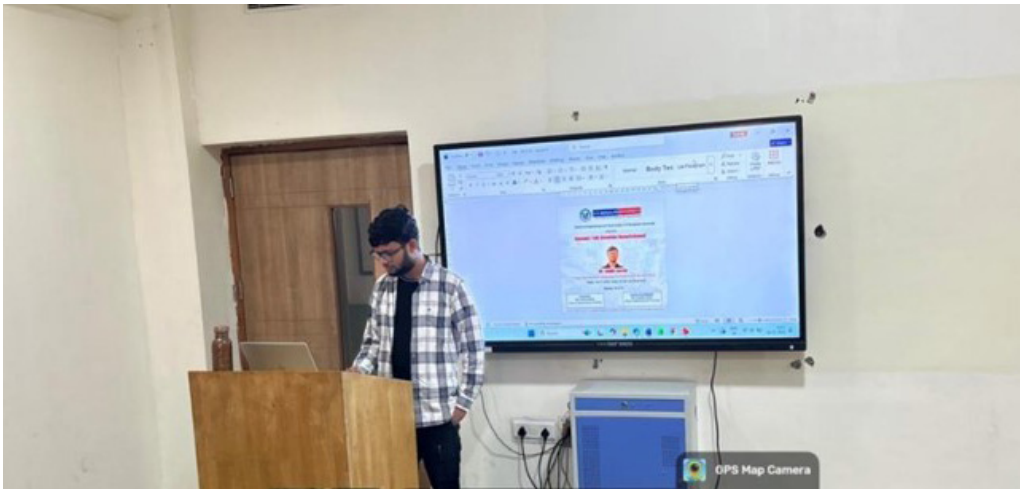
Students gained valuable insights as Mr. Ankit Luthra explained the technical aspects and real-world applications of his project, inspiring them to think innovatively and pursue excellence in software development.



Alumni Mr. Ankit Luthra delivering his talk on “From MERN Stack to Generative AI” and addressing students’ queries during the Alumni Talk.

Another significant session was held on 14th November 2025, featuring Mr. Shubh Saxena, BCA (AI & Data Science) alumnus and Senior Data Analyst at Senpaihost LLP. His talk on *“Deepfake Demolishment: Identifying, Preventing, and Combating AI-Generated Manipulations”* focused on the growing challenges of synthetic media, ethical AI practices, and advanced detection techniques. He encouraged students to develop strong analytical foundations and actively engage in AI security research and practical projects.

These sessions provided students with practical insights into software engineering, artificial intelligence, cybersecurity, and ethical technology implementation. By facilitating meaningful dialogue between alumni and current students, the Alumni Talk Series reinforced SOET’s dedication to experiential learning, professional mentorship, and preparing students for evolving industry demands.



Resource person Mr. Shubh Saxena delivering his talk on "Deepfake Demolishment"

Resource person Mr. Shubh Saxena delivering his talk on "Deepfake Demolishment"

KNOW-YOUR-RIGHTS

The School of Engineering and Technology (SOET), K.R. Mangalam University, organized a "Know-Your-Rights" session on 9 October 2025 for B.Tech (CSE & AIML) Semester I students. Conducted offline in B-Block, the session was led by Dr. Megha Garg (School of Legal Studies) and attended by 45 students.

The session focused on Fundamental Rights, Constitutional Duties, cyber laws, RTI, and civic responsibilities, aligning with SDG 16 (Peace, Justice, and Strong Institutions) and SDG 4 (Quality Education). Through expert presentations, real-life case studies, group discussions, and interactive Q&A, students gained practical legal awareness and understanding of their rights in both civic and digital contexts.

Post-session assessment and feedback indicated strong engagement and positive learning outcomes, with over 80% rating the session as excellent/good and most students recommending it to peers. The initiative successfully strengthened legal literacy, ethical awareness, and responsible citizenship among first-year engineering students.

Students attending the "Know Your Rights" awareness session

INDUSTRIAL VISIT- DIGI CONSULT

The School of Engineering & Technology, K.R. Mangalam University, organized an industrial visit to DIGI CONSULT, Janakpuri, Delhi, on 31 October 2025 for MCA (Core & AI/ ML) Semester I students. A total of 23 students participated under the guidance of faculty coordinators.

The visit featured an interactive session by Mr. Piyush, CEO of DIGI CONSULT, who shared insights on artificial intelligence, digital transformation, entrepreneurship, and emerging industry trends. Students gained exposure to real-world applications of AI, business problem-solving approaches, and the skills required in the evolving tech landscape.

The visit successfully bridged the gap between academic learning and industry practices, enhancing students' understanding of AI technologies, innovation frameworks, and professional career pathways.

MCA students departing for their industrial visit along with faculty coordinators.

Students gaining real-world insights during the industry presentation

MCA students with the CEO of the company

INDUSTRIAL VISIT TO NETWORK BULLS GURGAON

The School of Engineering & Technology, K.R. Mangalam University, organized an industrial visit to Network Bulls, Gurugram, on 26 November 2025 for B.Tech (AI & ML) and Data Science students (III Semester). A total of 31 students participated in the offline visit under faculty coordination. The visit provided hands-on exposure to Cisco-based networking labs, enterprise networking setups, routing and switching concepts, network security, wireless technologies, and software-defined networking (SDN). Students attended expert-led orientation sessions, live demonstrations, and practical command-line exercises, gaining real-time industry insights into networking operations and certification pathways such as CCNA, CCNP, and CCIE.

Feedback analysis indicated high satisfaction levels, with a majority of students appreciating the interactivity, quality of orientation, usefulness of demonstrations, and practical learning experience. Overall, the visit successfully strengthened students' technical understanding, industry readiness, and awareness of career opportunities in networking and cybersecurity.

Students attending a technical session during the industrial visit.

Students and faculties of KRMU during an industrial visit to Network Bulls, Gurugram.

Students during an industrial visit to Network Bulls, Gurugram.

FACILITATION CEREMONY HONORS ACADEMIC EXCELLENCE

On 22nd November, the School of Engineering and Technology at KR Mangalam University organized a Facilitation Ceremony to recognize students who earned a place on the Dean's Honor List and were awarded Dean's Honor Certificates for their exemplary academic performance. The event marked a proud moment for the institution as it celebrated dedication, discipline, and scholastic excellence.

The ceremony witnessed enthusiastic participation from students and their parents, creating a vibrant and inspiring atmosphere. Parents had the opportunity to interact closely with faculty members, engaging in meaningful discussions about academic progress, holistic development, and future career pathways. These interactions reflected the university's commitment to maintaining a strong partnership between educators and families.

By honoring meritorious students, the School reaffirmed its focus on nurturing high academic standards while encouraging overall growth and ambition. The event not only acknowledged individual achievements but also reinforced the collective vision of striving for excellence across the academic community.

Certificate of academic excellence

Student receiving academic recognition

Award recipients with faculty at the felicitation ceremony

Award recipients with faculty at the felicitation ceremony

INDUSTRIAL VISIT TO NASSCOM CENTRE OF EXCELLENCE –IOT & AI

The School of Engineering and Technology (SOET), K.R. Mangalam University, organized an Industrial Visit to NASSCOM Centre of Excellence – IoT & AI, Gurugram on 7th October 2025. The visit was conducted for B.Tech Cyber Security and B.Sc. Data Science/Cyber Security students with the objective of providing industry exposure in emerging domains such as Artificial Intelligence, Internet of Things (IoT), and Industry 4.0. The session was led by Ms. Shalu Tyagi, Program Manager – Startup Ecosystem & Innovation, who provided insights into the incubation ecosystem, startup support mechanisms, and innovation-driven product development. Students were introduced to real-world AI and IoT applications, ongoing research initiatives, and collaborative opportunities between academia and industry. Live demonstrations included innovative solutions such as HIPPRO, a smart assistive device for elderly safety, and AI-driven drug discovery platforms focused on healthcare innovation.

The visit enabled students to interact directly with industry professionals, understand the startup lifecycle, and observe practical implementations of AI-powered systems. The experience strengthened their knowledge of data-driven innovation, research opportunities, and entrepreneurship within the technology ecosystem. The initiative also aligned with Sustainable Development Goals related to Quality Education, Industry Innovation, and Good Health and Well-being. Overall, the industrial visit served as a valuable platform to bridge theoretical learning with practical exposure, fostering analytical thinking, research orientation, and industry readiness among students.

Students experiencing the live demo

Live demo of Safety Belt

Live Demo of Project management software

Felicitate to the Speaker

Real time usage of the product

TECHNICAL ARTICLES

DR. SANEH LATA YADAV: A HYBRID FAHP–ENTROPY–TOPSIS MODEL FOR SELECTING THE FACILITY LAYOUT IN SMALL-SCALE MANUFACTURING

Abstract:

The strategic layout of a facility is crucial for achieving optimal productivity, operational efficiency, and ergonomic functionality in manufacturing systems. The availability of resources on the shop floor has a direct impact on how effectively each industry performs its tasks. The current study proposes a combined approach for selecting the optimal layout design from several options for a specific small-scale manufacturing industry. To achieve this, authors employed the FAHP to make decisions in the presence of uncertainty, the Entropy method to assign objective weights to different criteria, and the TOPSIS method to rank design options based on their proximity to the ideal solution. Five different facility layout designs were evaluated, with three qualitative factors examined: layout flexibility, shop floor utilisation, and ergonomics. The method is designed for use in a car parts manufacturing company that has experienced operational bottlenecks and poor shop floor layout for years. The people in charge, as well as the industry management, were unsatisfied with the setup. The results show that Layout 5 is superior to the others because it can be modified and outperforms all the other criteria used to evaluate it. The current study provides a comprehensive model to help small-scale industries, which are often at the bottom of the industrial hierarchy, transition from simple methods to more advanced ones in making decisions about layout design.

DR. KAUSHAL KUMAR: ENHANCED SLIDING WEAR AND CAVITATION EROSION RESISTANCE OF WC-17CO GRAPHENE COMPOSITE COATINGS ON AISI 304 STAINLESS STEEL DEPOSITED BY HVOF

Abstract:

AISI 304 stainless steel used in turbine components experiences severe sliding wear and cavitation erosion, necessitating high performance protective coatings; WC based cermet coatings applied by high velocity oxy fuel (HVOF) spraying offer strong wear and erosion resistance, and their mechanical performance can be further enhanced through nanoscale reinforcement such as graphene. In this work, WC-17Co and WC-17Co + graphene coatings were deposited on AISI 304 using optimized HVOF parameters and characterized for microstructure, elemental distribution, and phase stability, followed by sliding wear testing at and cavitation erosion evaluation under a three-factor full factorial design varying jet velocity (20–40 m/s), impingement angle (30–90°), and stand-off distance (4–12 cm). The WC-17Co coating achieved a good wear-rate reduction relative to uncoated AISI 304, while graphene reinforcement provided an additional wear rate reduction relative to WC-17Co; furthermore, graphene improved splat cohesion, restricted inter-splat delamination, and enhanced energy dissipation during elevated temperature sliding. Cavitation tests showed that WC-17Co + graphene offered the highest erosion resistance enhancement due to improved crack-bridging and moderated brittle fracture behaviour. Overall, the incorporation of graphene into WC-17Co coatings significantly improved wear and cavitation performance, demonstrating their suitability as durable surface engineering solutions for AISI 304 components operating under aggressive conditions.

PLACEMENTS & INTERNSHIPS

In continuation of previous quarter placement, 25 students in duration of October- December 2025 were placed in companies of their expertise.

Sr. No.	ROLL NO.	STUDENT NAME	COURSE	Name of Company	Offered designation
1.	2201010022	Saurabh Bisht	B. Tech CSE	Safe and Care ShuttlerRide Pvt Ltd	Full Stack Web Developer Intern
2.	KRMU2541384	Shubh Saxena	MCA	Senpaihost	Data Analyst
3.	2401560042	Anantika Paul	MCA	RJ Forsec Solution	Digital Forensic Examiner trainee
4.	2301830003	Ramsagar Yadav	BSc (H) Cyber Securty	RJ Forsec Solution	Digital Forensics
5.	2201730059	Naina Sharma	B. Tech CSE AI & ML	Sunstone Education Pvt Ltd	Associate Engineer
6.	2301201080	Tushar Gaba	BCA AI & DS	M. N. Overseas	Marketing department
7.	2301201077	Aman Gambhir	BCA AI & DS	S G Trading Company	MIS Executive
8.	2201010081	Shanvi Maturia	B. Tech CSE	JC Electronica Pvt Ltd	Pricing Analyst Trainee
9.	2301201106	Shreya Narayan	BCA AI & DS	SenpaiHost	Web Developer
10.	2401560006	Deepti	MCA	Dynasty International School	Teaching
11.	2301201011	Ajay	BCA AI & DS	Grassfront Bizzeazy Pvt Ltd	SDE Intern
12.	2301201053	Vinod	BCA AI & DS	Grassfront Bizzeazy Pvt Ltd	SDE Intern
13.	2301201200	Sakshi Kumari	BCA AI & DS	XL India Business Services Pvt Ltd.	Service Desk Analyst
14.	2301201189	AdityaRaj Sinha	BCA AI & DS	XL India Business Services Pvt Ltd.	Service Desk Analyst
15.	2201730106	Sayan Deb Nath	B. Tech CSE AI & ML	The Exploriffy Tourism Pvt Ltd	Travel Tech Executive
16.	2201350016	Pranav	B. Tech CSE FSD	XL India Business Services Pvt Ltd.	Service Desk Analyst
17.	2301201138	Deepanjali Somvanshi	BCA AI & DS	M M Group	General Manager
18.	2301201070	Chetan Sharma	BCA AI & DS	Irish Trio Pvt Ltd	Performace Marketer
19.	2301201075	Daksh Thareja	BCA AI & DS	Lighter	Web Developer
20.	2401500044	Aman Chourasia	MCA	Teleperformance Global Business Private Limited	Operations Customer Expert I
21.	2301201056	Dhanur Bhatnagar	BCA AI & DS	Marmoris Ecom Private Limited	Team Leader
22.	2301201002	Gautam Kaushik	BCA AI & DS	Marmoris Ecom Private Limited	Team Leader
23.	2401560028	Neha Chaudhary	MCA	Vicente Industrial Services Private Limited	Production Executive
24.	2201730035	Prashant Dabral	B. Tech CSE AI & ML	JC Electronica Pvt Ltd	Suppy Chain Data Analyst
25.	2201730049	Saffron Makkar	B. Tech CSE AI & ML	JC Electronica Pvt Ltd	Suppy Chain Data Analyst

INTERNSHIPS

In the third quarter, 18 students were selected for an internship in the companies of the reputed companies of their expertise.

Sr. No.	ROLL NO.	STUDENT NAME	Program	Name of Company
1.	2301201081	Deepakshi	BCA AI & DS	BLS International
2.	2301201120	Ajay Kumar	BCA AI & DS	Humanvalley Staffing Solutions Pvt. Ltd.
3.	2201360001	Sparsh Majumdar	B. Tech CSE (UI/UX)	PaisaBazaar
4.	2201730065	Vanshika Sharma	B. Tech CSE (AI/ML)	Best Power Equipments(India) Private Ltd
5.	2201730060	Namrata	B. Tech CSE AI & ML	Sonepar India Pvt Ltd
6.	2301201018	Kanishk Gulati	BCA AI & DS	Digitalholic
7.	2201010028	Hitesh Mehta	B. Tech CSE	Safe and Care Shuttleride Pvt. Ltd
8.	2201010105	Vansh Jasrotia	B. Tech CSE	Betterway
9.	2301201115	Pahvani Aggarwal	BCA AI & DS	Kiswasoft Technologies
10.	2201010115	Vinay Kumar	B. Tech CSE	SmartBridge Educational Services Pvt ltd
11.	2301201167	Himanshu Kumar	BCA AI & DS	AccioJob
12.	2401560010	Aprajita Kumari	MCA	QSpiders
13.	2201010029	Steven Abraham	B. Tech CSE	Amdox Technologies
14.	2301201172	Akshi Sharma	BCA AI & DS	Neotechie Private Limited
15.	2201010022	Sourabh Bisht	B. Tech CSE	Safe and Care Shuttleride Pvt. Ltd
16.	2201360009	Pranjal Sharma	B. Tech CSE(UI/ UX)	2nd Foundation Software
17.	2201010166	Mehak	B. Tech CSE	Cars24
18.	2301720003	Devansh Shukla	B. Sc (H) CS	XAI Technologies Pvt Ltd

OUR ALUMNI

Shubh Saxena
BCA AI & DS (2022–25)
-Senior Data Analyst

Beginning my journey at K.R. Mangalam University in 2022 was more than just enrolling in a degree program—it was the first step toward turning ideas into reality. As a BCA student, I was always curious about how technology could solve real-world problems. Very early on, I realized that learning from textbooks was important, but building something of my own would truly define my path.

That curiosity led me to explore emerging technologies, especially in automation and drone systems. I began experimenting, researching, and working on practical implementations that combined software with hardware innovation. What started as small experiments gradually evolved into something much bigger—the foundation of Drone Automation System, a venture driven by the vision to integrate intelligent drone technology with automation solutions for real-world applications.

University life gave me the platform to think independently and act boldly. Through projects, collaborations, and continuous self-learning, I developed not only technical expertise but also problem-solving, leadership, and decision-making skills. Building a startup while pursuing my degree taught me resilience, time management, and the importance of execution over ideas.

As the Founder of Drone Automation System, my focus has been on creating scalable, tech-driven solutions that push the boundaries of innovation. Every challenge faced during this journey has strengthened my belief that technology, when combined with determination, can create meaningful impact.

To my juniors, I would say: don’t limit yourself to the syllabus. Explore beyond the classroom, experiment fearlessly, and build something that excites you. These years are not just about earning a degree—they are about discovering your potential and shaping your own future.

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Sohna Road, Gurugram, Haryana 122103