

# A RESEARCH REPORT

**JANUARY-JUNE 2025**



## **SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, DELHI-NCR CAMPUS, GHAZIABAD, U.P. 201204**

SRM Institute of Science and Technology (SRMIST) have taken various research initiatives over the years to mobilize the available knowledge resources for research and also, to come up strongly with innovative solutions. All the research centers of SRMIST function in a cooperative manner to identify and initiate applied as well as cross-disciplinary research projects, create and combine patentable Intellectual Property (IP) components, design and develop prototypes & proof of concepts, manage and market products & solutions (through know-how transferred incubated companies), win and work to deliver funded research projects.

### **VISION**

To emerge as a World – Class University in creating and disseminating knowledge and providing students a unique learning experience in Science, Technology, Medicine, Management and other areas of Scholarship that will best serve the world and for the betterment of mankind

### **MISSION**

- 1.** Provide excellent research culture and infrastructure
- 2.** Serve as a platform for strong interdisciplinary collaborations and knowledge sharing
- 3.** Publish research findings in high quality journals of international repute
- 4.** Create scientifically profound human resources for academic & industrial research
- 5.** Promote industrial collaborations involving active and mutually beneficial R & D projects

# DIRECTOR'S MESSAGE



“Intelligence plus Character that is the True Goal of Education”

Martin Luther King Jr.

Kaetil vizhuchchelvam kalvi oruvarku  
maadalla matrai yavai [Thirukural by Thiruvalluvar]

Learning is excellence of wealth that none destroy;  
To man nought else affords reality of joy.

Education plays a vital role in everybody's life. To imbibe knowledge is a continuous process and there is no limitation or upper limit to keep learning throughout one's life. In other words, education is the backbone of our society. SRM Institute of Science and Technology is like a Banyan Tree in the field of education. It provides various courses under one-roof and also has established campuses in the state of Tamil Nadu, Uttar Pradesh, Haryana, Andhra Pradesh and Sikkim.

SRMIST, Delhi NCR Campus, Ghaziabad, Uttar Pradesh was established in 1997 to uplift the younger minds with new approaches in teaching and provide the higher-end of the spectrum in placements in the industry. It is a matter of pride to me to report that students from the Delhi NCR Campus are some of the best placed at various reputed companies.

Research and innovation at the institute is aligned with global and national priorities. Our institute imbues the values of entrepreneurship and innovation amongst its students. Right from the student to faculty member to any staff member, everyone strives to excel and endeavors to achieve perfection to the best of their capabilities. Its salient features are the high-quality teaching and learning process followed that focuses on employability of the students, commitment to research and innovation, close interaction with the industry and peer universities, and value a culture of continuous learning and development.

**Dr. Sanjay Viswanathan**

Director - SRMIST,

SRM Group of Institutions,

G-38, Lajpat Nagar, Part-III, New Delhi-110024

Email : [director@srmup.in](mailto:director@srmup.in), [director.ncr@srmist.edu.in](mailto:director.ncr@srmist.edu.in)



## **DEAN NCR MESSAGE**

SRM Institute of Science & Technology, Delhi-NCR Campus is one of the premier institutions of India offering quality education in the field of Engineering, Management, Computer Applications, Pharmacy, Hotel and Catering Management and Research. We at SRM IST, strive for innovation and excellence in education, research and consultancy.

SRM IST is accredited by NAAC with the highest 'A++', Category 'A' by MHRD and Category -1 by UGC. Moreover, we are globally diamond rated university by I-Gauge and 4-Star rated by QS Star Rating for Excellence.

SRM strives to achieve excellence in education, research and consultancy with an eye always set for innovation. SRM has highly qualified faculty members who continuously nurture their students and help launch them into their professional careers with complete confidence and zeal. Our students are well-versed in their respective fields of education. Their faculty ensures that they are always updated with the relevant skills that help them embrace all challenges and compete perfectly in the corporate world.

**Dr. R. P. Mahapatra**

Dean

SRM Institute of Science and Technology,

Delhi-NCR Campus, Ghaziabad, U.P

Email : dean.ncr@srmist.edu.in



## **DEAN RESEARCH MESSAGE**

At SRMIST Delhi NCR Campus, Ghaziabad UP, research is at the heart of innovation, discovery, and societal progress. Our commitment to excellence in research spans across disciplines, fostering an environment where creativity and collaboration thrive.

I invite research collaborations involve partnerships between individuals, institutions, or organizations to conduct joint research projects through Academic Collaborations, Industry-Academia Partnerships, International Collaborations, Interdisciplinary Teams to shape the future.

Our Incubation Centre is designed to nurture young minds, providing the resources, mentorship, and support needed to turn ideas into reality. Whether you have a startup idea, a research-driven project, or a passion for solving real-world challenges, we are here to help you succeed.

Our centre provides cutting-edge infrastructure, mentorship, funding support, and industry connections to help early-stage ventures grow into successful enterprises. We believe in empowering innovators by bridging the gap between research, industry, and market needs.

We offer a vibrant ecosystem and space for incubators and provide collaborations to develop entrepreneurial skills, gain access to funding, industry experts and state-of-the-art infrastructure funded by various Government agencies. From ideation to execution, we guide you through every stage of your entrepreneurial journey.

Join us on this exciting journey of break through research collaborations and innovation with impact for the society!

**Prof. (Dr.) A. Geetha Bhavani**

Dean Research

SRM Institute of Science and Technology,

Delhi-NCR Campus, Ghaziabad, U.P

Email : dean.research.ncr@srmist.edu.in



## **HOD RESEARCH MESSAGE**

Research is an integral and crucial component of learning initiatives at SRM Institute of Science and Technology (SRMIST). Since the starting of University, our esteemed and beloved Founder-Chancellor, Dr. T. R. Paarivendhar, diligently emphasized and motivated every member of the SRMIST community to cultivate a research-oriented mindset within our teaching and learning processes. His visionary leadership has enabled us to carve a significant path in our commitment to research, facilitating substantial investments in knowledge resources and empowering us to develop innovative solutions.

**Prof. (Dr.) Satya Sai Srikant**  
Head (Research and Publications)  
SRM Institute of Science and Technology,  
Delhi-NCR Campus, Modinagar  
E-Mail: [hod.rp.ncr@srmist.edu.in](mailto:hod.rp.ncr@srmist.edu.in)



## **CHIEF TECHNOLOGY OFFICER MESSAGE**

Dear Innovators and Entrepreneurs,

At the Incubation Centre, we believe that ideas have the power to transform society and shape the future. Our mission is to foster creativity, provide mentorship, and create a nurturing ecosystem that enables students, researchers, and startups to translate their innovative ideas into impactful solutions.

Through state-of-the-art infrastructure, strong industry connect, and strategic collaborations, we aim to empower aspiring entrepreneurs to develop sustainable business models aligned with the principles of technology-driven growth and circular economy.

I invite all passionate minds to leverage the resources, guidance, and opportunities offered by our Incubation Centre. Together, let us innovate, collaborate, and lead the way towards an Atmanirbhar Bharat and a better tomorrow.

Wishing you success in your entrepreneurial journey!

**Dr. Anna Alphy**

Chief Technology Officer  
SRM Institute of Science and Technology,  
Delhi-NCR Campus, Modinagar  
E-Mail: [cto.ncr@srmist.edu.in](mailto:cto.ncr@srmist.edu.in)



# Center of Excellence on Internet of Things, Industry X.0



## Congratulations on the Successful Project Achievement!

SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad for established the Center of Excellence on Internet of Things, Industry X.0 in collaboration with Softpro India. This initiative will significantly boost innovation and research in IoT, Robotics, and AI, while fostering greater awareness of Industry 4.0 and beyond. Wishing the team great success in shaping the future of technology and industry!



## MITR Industry Academia Portal

Dear **SRM Institute of Science & Technology, Delhi/NCR Campus** ,  
On behalf of the Department of Chemical and Petrochemical, we are pleased to welcome you to **MITR – Industry Academia Portal** designed to foster and enhance collaboration between industry and academia in the Chemical and Petrochemical sectors.

We are excited to have you as part of this initiative. Below are your login details to

**Dr.A.Geetha Bhavani initiated the SRMIST, NCR campus registered in MITR portal, Ministry of Chemical and Petrochemicals and Ministry of Steel. These portals to foster the research with industrial collaboration and product development.**

- **Benefits for Academia**

1. Industry Exposure: Access to real-world industrial problems and current trends.
2. Collaborative Research: Opportunities for joint R&D projects and consultancy.
3. Internships & Placement: Increased internship and employment opportunities for students.
4. Curriculum Enhancement: Curriculum inputs from industry experts to stay industry-relevant.
5. Funding Opportunities: Support for research funding through industry collaborations.
6. Faculty Development: Training and development programs guided by industry professionals.

- **Benefits for Industry**

1. Access to Talent: Early engagement with skilled students and potential future employees.
2. R&D Support: Leverage academic research infrastructure and expertise for innovation.
3. Cost-effective Solutions: Academic partners can provide affordable research and testing.
4. Custom Training: Tailored training programs for employees by academic institutions.
5. Innovation Pipeline: Co-development of cutting-edge technologies and

# ACTIVITIES



**EMCOG SOLUTIONS PVT. LTD.  
A START-UP INDIA  
RECOGNISED COMPANY  
PRODUCT DEVELOPMENT AND  
SKILL DEVELOPM**

**Online meeting held on to establish  
E-mobility center at SRMIST  
DELHI NCR CAMPUS  
E-mobility center was initiated by  
Dr. DHOLA GOVIND AND Dr. A  
GEETHA BHAVANI**

**9 MAY 2025**

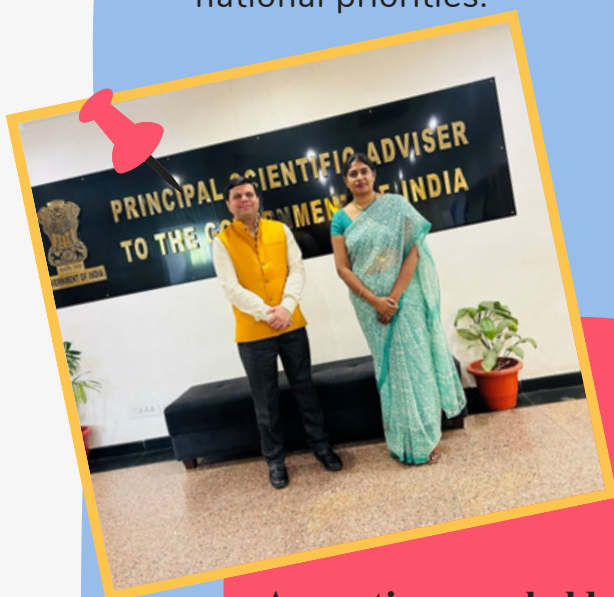


## NATIONAL PLANT BOARD ADVISOR

Advisory Purpose: The meeting aimed to explore collaborative opportunities in research and innovation, with emphasis on advancing plant health management, developing sustainable agricultural solutions, and aligning institutional projects with national priorities.



MEETING WITH DR. VISHAL CH. TO STRENGTHEN THE SCIENTIFIC INOVATIONS



**Dr. Vishal Choudhary – Scientist 'F',  
Office of the Principal Scientific  
Adviser (PSA) to the Government of  
India**

A meeting was held with Dr. Vishal Choudhary, Scientist 'F' in the Office of the Principal Scientific Adviser to the Government of India, to discuss avenues for strengthening scientific innovations, promoting applied research, and fostering collaborations between academia, industry, and government agencies.

Dr. Choudhary, with extensive expertise in the chemicals, pharmaceuticals, and pesticide sectors, shared insights on research quality standards, laboratory accreditation, and international best practices in scientific project implementation. The discussion also covered the integration of emerging technologies in agriculture, sustainable resource management, and policy alignment with national priorities.

The meeting provided valuable guidance for advancing institutional research capabilities, enhancing innovation ecosystems, and aligning college projects with national scientific missions.

# VANGUARD: INNOVATION SUMMIT 2025- SHAPING TOMORROW'S ENTREPRENEURS 2 MAY 2025

ORGANIZED BY : INCUBATION CENTRE  
SRM IST DELHI-NCR CAMPUS

<b>Inaugural Session</b> 9:30 AM to 10:20 AM	 <b>Chief Guest</b> Shri Himanshu Joshi Director- NITI Aayog Government of India	
<b>Keynote Session</b> 10:25 AM to 11:25 AM "Insights from Startup India: National Outlook on building a startup ecosystem"	 <b>Shri Anmol Agarwal</b> &  <b>Shri Ritwik Malhotra</b> Assistant, STARTUP INDIA Nationalist for Promotion of Startup and Innovation Policy (NIPIT) Ministry of Commerce and Industry, Government of India	
<b>Panel Discussion</b> 11:25 AM to 12:00 PM "From Campus to Company: Student Startups and the Road Ahead"	 <b>Shri Rohit Batra</b> Vice President- Commercial Projects NIPIT, Technology Innovation Park of IIT Delhi	 <b>Ms. Shweta Raka</b> President, Delhi Angels Club & Member of Charge - with Shri Anmol Agarwal
 <b>Shri Sagar Mahat</b> Founder - Incubation Centres in Ministry of Education - Innovation Council & Advisor - 923 Start Investment Task Force	 <b>Moderator</b> <b>Dr. Anna Alphy</b> CTO - Incubation Centre	



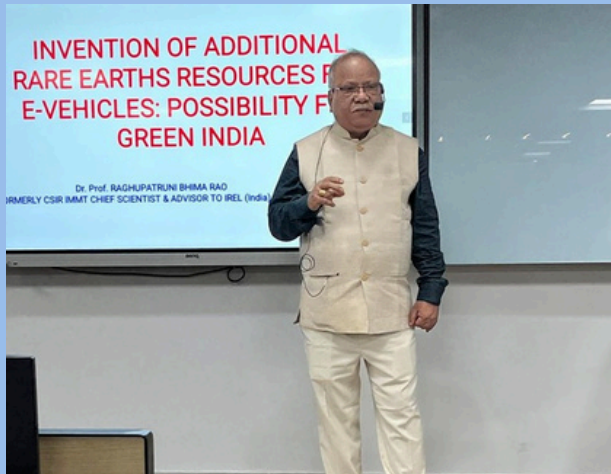
## PURPOSE

The event served as a dynamic platform for students, researchers, and budding entrepreneurs to present innovative ideas, interact with successful startup founders, and learn from industry experts.

Sessions included keynote addresses, panel discussions, and a startup pitch competition, all aimed at promoting creativity, problem-solving, and entrepreneurial thinking. The summit encouraged networking, mentorship, and collaboration to translate innovative concepts into viable business ventures



**VANGUARD: INNOVATION SUMMIT 2025-  
SHAPING TOMORROW'S ENTREPRENEURS  
2 MAY 2025**



**PURPOSE**

The Department of ECE, SRM IST DELHI NCR CAMPUS, organized an insightful session "Invention of Additional Rare Earths Resources for E-Vehicles: Possibility for Green India" by Dr. Prof. Raghupatruni Bhima Rao, Formerly CSIR-IMMT Chief Scientist & Advisor to IREL (India) Ltd.

The session shed light on innovative approaches to harness rare earth elements to power the next generation of sustainable e-mobility solutions in India. Faculty members, research scholars, and students actively participated, engaging in meaningful discussions on scientific innovations and their role in driving a greener future.





## **DST- PURSE 26-28 JUNE 2025**

Organized by DST- PURSE meeting by SRM IST DELHI- NCR CAMPUS, funded by Department of Science & Technology (DST), academic institutions, and industry partners to discuss funding opportunities, research collaborations, and technology commercialization pathways. Key sessions highlighted government initiatives for promoting innovation, start-up incubation, and capacity building in higher education. The event also provided a platform for networking, proposal development guidance, and aligning institutional research with DST's national mission objectives.





**DST - PURSE  
26-28 JUNE 2025**





**28**

**Join, Collaborate, and Elevate!**

**Unleash Innovation with Our PCB Fab Hub!**

Discover the power of our State of the Art Printed Circuit Board (PCB) Fabrication Facility!

**Key Features:**

- ✓ Single layer precise PCB designing
- ✓ Microstrip Patch Antennas
- ✓ High end soldering

**Key Benefits:**

- ✓ Accelerate your projects with rapid prototyping




**Key Features:**

- ✓ Single layer precise PCB designing
- ✓ Microstrip Patch Antennas
- ✓ High end soldering

**Key Benefits:**

- ✓ Accelerate your projects with rapid prototyping
- ✓ Enhance product quality with precise manufacturing
- ✓ Explore collaboration opportunities with experts and innovate together

**Let's Innovate Together!**

**Contact us**

- +911232234336
- +919355931839

## PCB Fab Hub

**Propose:** The launch of a PCB Fabrication facility, targeting small-scale electronics ventures. We invite start-ups, small scale electronic industries to utilize our state-of-the-art facility and expertise for PCB and antenna design development.

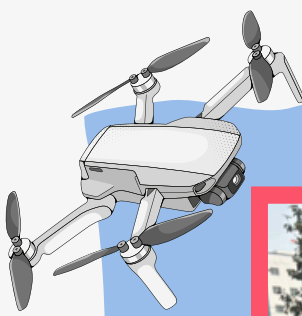
**## Objective:**

- Provide accessible PCB fabrication services
- Foster innovation and collaboration with small-scale electronics ventures

**## Unlock Innovation with Our PCB Fabrication Facility!**

- State-of-the-art technology
- Expert manpower
- Collaborative environment





## Drone Demo Day

**Congratulations on a Successful Drone Demo Day!**

The SRM Incubation Centre proudly congratulates Dr. Anna Alphy and Dr. Pallavi Jain for successfully coordinating the Drone Demo Day held on 28th January 2025 in association with Student Welfare. The event, attended by 58 B.Tech CSE first-year students, featured an engaging session by Capt. Harish Kumar Gangwar, Director – Operations, Advect Skills Pvt. Ltd., who brought over 12 years of expertise in UAV technology and aviation.

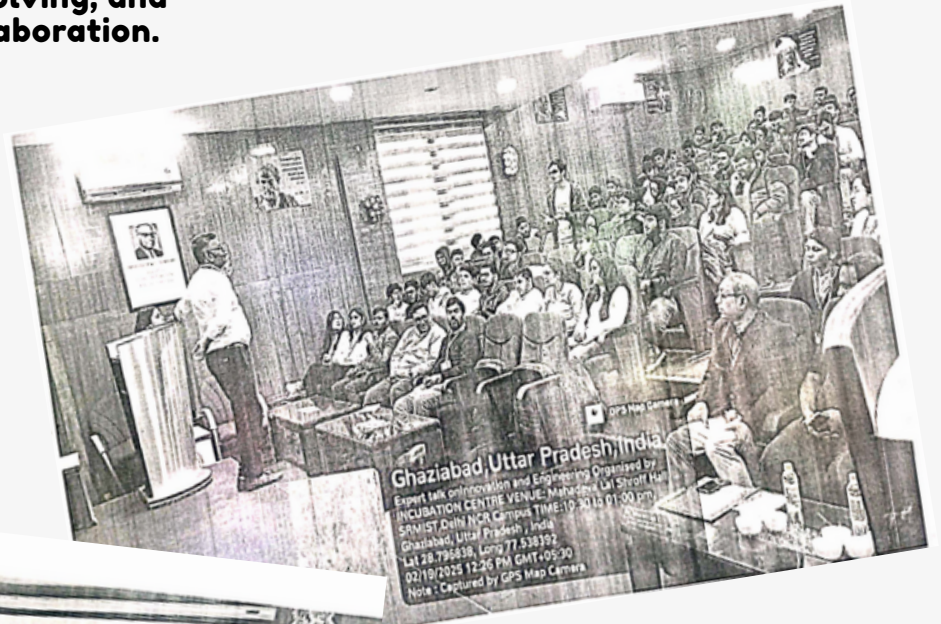
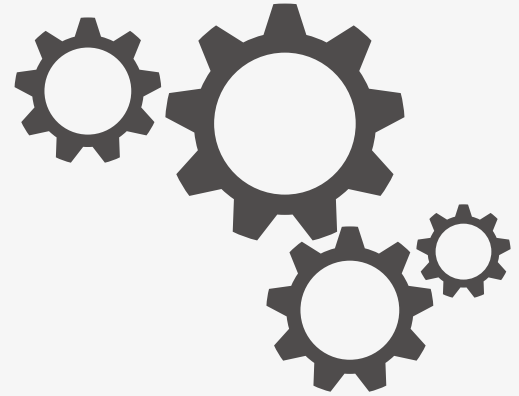
The demonstration provided students with hands-on exposure to drone technology, inspiring innovation, and enhancing technical knowledge. This initiative has opened new horizons for our students in the rapidly growing UAV industry.





## Congratulations on a Successful Expert Talk!

The SRM Incubation Centre extends heartfelt congratulations to Dr. Anna Alphy for successfully coordinating the Expert Talk on Innovation and Engineering held on 19th February 2025. With the participation of 152 B.Tech CSE students, the event featured valuable insights from Dr. Bhartiraja C, Centre Head – Centre of Electronic Mobility, SRM Kattankulathur. The session highlighted the latest advancements in engineering and technology, showcasing how innovation drives progress and shapes future industries. This impactful initiative has truly inspired our students towards creativity, problem-solving, and interdisciplinary collaboration.





# AWARDS





**Dr. Satya Sai  
Srikant** 🎉  
**Department of  
Electronics and  
Communication  
Engineering**



We are proud to congratulate Dr. Satya Sai Srikant for receiving the Sadananda Memorial Award from The Institution of Engineers (India), Odisha State Centre, Bhubaneswar during the 64th Annual Technical Session held on 11th May 2025.

This prestigious recognition was awarded for his outstanding paper titled "Beneficiation Studies for Concentration of Rare Earth Minerals from Natural Resources and Tailings."

This remarkable achievement is a testament to his dedication to research excellence, innovation, and contribution to the scientific community. His success continues to inspire our faculty, students, and the entire academic fraternity.

Heartiest congratulations once again on this well-deserved honor!





## Congratulations Ms. Neha Srivastava Department of Pharmacy

We extend our heartfelt congratulations to Ms. Neha Srivastava for being honored with the International Karamsheel Award 2025 and the Honorary Doctorate Award in Social Service (Honoris Causa) by Socrates Social Research University, presented at the India International Centre, New Delhi, on 21st June 2025.

These prestigious recognitions celebrate her unparalleled contribution to society, humanity, and the nation, as well as her dedication to social service and community development. Her exemplary commitment and impactful work serve as an inspiration to the academic community and beyond.

We are proud of her achievements and wish her continued success in all future endeavors.



# APPRECIATION

## RESEARCH SCHOLAR

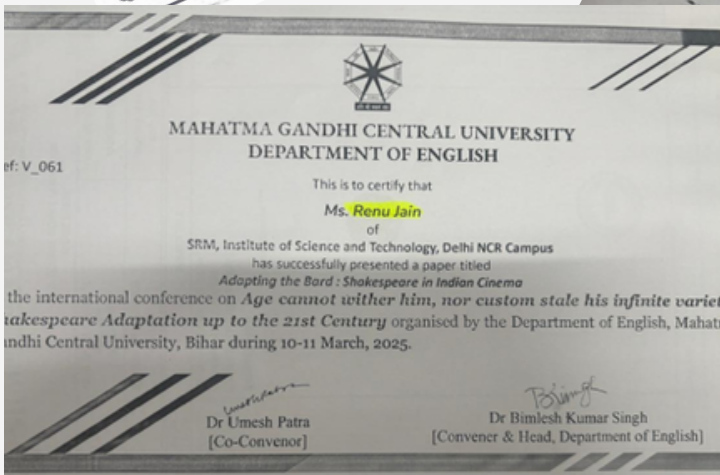
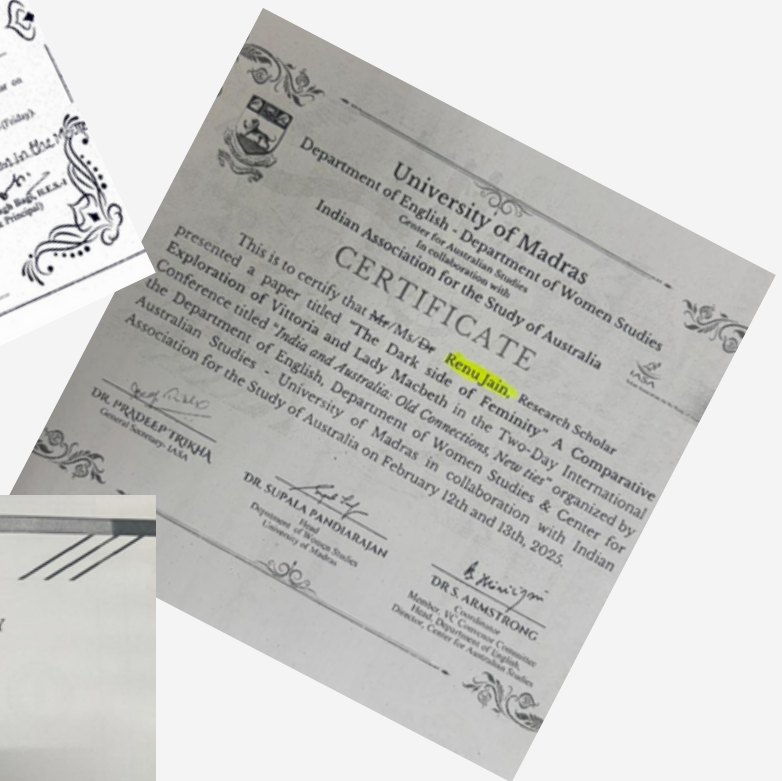
*Congratulations!*

Big congratulations!

You've made us all proud with your amazing presentations and research work at national and international conferences. Seeing you represent SRM Institute of Science and Technology on such big platforms like Govt. College Gharaunda, University of Madras, and Mahatma Gandhi Central University is truly inspiring.

Your dedication, hard work, and passion for learning are a motivation for all of us. You've shown that with focus and determination, students can achieve great things even while juggling academics.

Keep going, keep shining, and may this be just the start of an even brighter journey ahead!



# APPRECIATION

RESEARCH SCHOLAR

**Dr./Ms. Bharti Verma – Congratulations on your remarkable presentation at the International Conference on their research paper titled DETERMINATION OF ANTIOXIDANT AND ANTI-INFLAMMATORY ACTIVITY OF ETHANOLIC EXTRACT OF TECOMELLA UNDULATA ON SHSY-5Y CELLS (Eshm-2025).**



**Ms. Monika Khurana – Warm congratulations on your insightful contribution to the International Conference on Shakespeare Adaptation up to the 21st Century. Your scholarly work reflects great dedication and depth.**



**★ DR./MS. TRAPTI VARSHNEY – CONGRATULATIONS ON YOUR REMARKABLE PRESENTATION AT THE INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN ENGINEERING, SCIENCE AND MANAGEMENT (ETESM-2025). YOUR RESEARCH ON HYBRID PHOTOVOLTAIC THERMAL INTEGRATED SOLAR DRYER IS TRULY COMMENDABLE AND A PROUD ACHIEVEMENT.**

**★ MS. RENU JAIN – WARM CONGRATULATIONS ON YOUR INSIGHTFUL CONTRIBUTION TO THE INTERNATIONAL CONFERENCE ON SHAKESPEARE ADAPTATION UP TO THE 21ST CENTURY. YOUR SCHOLARLY WORK REFLECTS GREAT DEDICATION AND DEPTH.**

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr. Chandra Shakher Tyagi	Study on the Effect of Varying Cooling Conditions on Microstructural and Mechanical Performance of the GTAW Joint of Heat-Resistant P92 Steel	JMEPEG	2.2
Dr.D.Ganesh Gopal	iWBFCxr: improved weighted box fusion for analyzing chest x ray images for enhancing thoracic abnormalities	International Journal of Information Technology	1.2
Dr. Ravi Tomar	Triethylamine-based Ionic Liquids as Anticancer Agent: Synthesis, Characterization, In-Silico and DFT Studies	Indian Journal of Chemistry (IJC)	0.9
Dr. Sachin Sirohi	Study on the Effect of Varying Cooling Conditions on Microstructural and Mechanical Performance of the GTAW Joint of Heat-Resistant P92 Steel	Journal of material engineering and performance	2.2
Dr Santosh Kumar Rai	A critical review of ram methodology: analysis and performance evaluation in industrial complexities	Reliability: Theory & Applications	1.4
Dr. Niranjana Lal	An Intelligent Multi-Layer Algorithm for the Detection and Prevention of Security Issues in P2P Cloud Network	IEEE Xplore	1.2
Dr.Rupali Singh	Towards last-mile connectivity in 6G-IoT: An integrated MIMO-FSO communication system and FBG sensors under atmospheric attenuations, strain and temperature effects	Engineering Science and Technology, an International Journal	5.1
Dr. Garima Pandey	Harnessing deep eutectic solvents for advanced corrosion protection: A review	Journal of Molecular Liquids	5.3
Dr. Garima Pandey	Graphene Oxide-Mediated Sensing: A Triangulated Approach for Chromium Ion Detection with Dynamic Time-Dependent and Concentration Analyses	Journal of Inorganic and Organometallic Polymers and Materials	3.9

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr. Piyush Gupta	Sorption isotherms and kinetics of Crystal Violet dye uptake from aqueous solution by using polyaniline nanocomposite as adsorbent	Chemical Physics Impact	0.57
Dr. D.Ganesh Gopal	Predictive Modeling for Type-3 Diabetes: A Machine Learning Approach for Healthcare Management	2024 International Conference on Computing, Sciences and Communications (ICCSC)	2
Dr. D.Ganesh Gopal	Explainable Federated Learning Based Secure and Transparent Object Detection Model for Autonomous Vehicles	IEEE Transactions on Consumer Electronics	4.3
Dr. D.Ganesh Gopal	A momentum-based stochastic fractional gradient optimizer with U-net model for brain tumor segmentation in MRI	Digital Signal Processing	2.9
Dr. D.Ganesh Gopal	Federated Learning and Blockchain-Enabled Framework for Traffic Rerouting and Task Offloading in the Internet of Vehicles (IoV)	IEEE Transactions on Consumer Electronics	4.3
Dr. D.Ganesh Gopal	A Systematic Review of Federated Learning Mechanism for The Internet of Medical Things	2024 International Conference on Computing, Sciences and Communications (ICCSC)	1.3
Dr. Ravi Tomar	Procaine and salicylate-based ionic liquid: synthesis, in silico, in vitro, biophysical and biological studies	Ionics	2.4

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr. Ravi Tomar	Exploring Biophysical and Chemoinformatics Approaches for Interactions of Ionic Liquids with Hemoglobin, DNA, BSA, and HSA	Chemistry & Biodiversity	2.3
Dr.R.P.Mahapatra	Explainable Federated Learning Based Secure and Transparent Object Detection Model for Autonomous Vehicles	IEEE Transactions on Consumer Electronics	4.3
Dr. Ankit Sonthalia	Evaluating the Effectiveness of Boosting and Bagging Ensemble Techniques in Forecasting Lithium-Ion Battery Useful Life	Energy Storage	3.6
Dr. Shikha Bansal	Stochastic modeling and performance optimization of the cloud computing space system utilizing Petri nets simulation modeling and genetic algorithm	International Journal of System Assurance Engineering and Management	1.6
Dr. Shikha Bansal	Anuj Integral Transform to Solving Abel's Integral Equation of Classical Mechanics	National Academy Science Letters	1.2
Dr. Jitendra Singh	Recent developments of load balancing in cloud computing: A review	AIP Conf. Proc. 3233, 020016 (2025)	0.97

# PUBLICATIONS

<b>NAME</b>	<b>TITLE</b>	<b>JOURNAL</b>	<b>IF</b>
Dr. Jitendra Singh	Applying Keyword Extraction Techniques on Customer's Feedback of a Software Product to Accelerate Agile Based Development	Chemistry & Biodiversity	2.3
Dr. Jitendra Singh	Load balancing in cloud computing: techniques, challenges and future prospects	IEEE Transactions on Consumer Electronics	4.3
Dr. D. Franklin Vinod	nCD and Clipped RBM based Multimode DBN for Optimal Classification of Heterogeneous Images in Big Data	Energy Storage	3.6
Dr. Parbhat Gupta	A comparative evaluation of the modern world's impact of mobile cloud computerization	International Journal of System Assurance Engineering and Management	1.6
Dr. Parbhat Gupta	Melanoma Skin Cancer Detection Using Deep Learning Techniques	National Academy Science Letters	1.2
Dr. Atulya Gupta	A comparative evaluation of the modern world's impact of mobile cloud computerization	AIP Conf. Proc. 3233, 020016 (2025)	0.56
Dr. Gurpreet Kour Khalsa	A comparative evaluation of the modern world's impact of mobile cloud computerization		

# PUBLICATIONS

<b>NAME</b>	<b>TITLE</b>	<b>JOURNAL</b>	<b>IF</b>
Ms. Megha Saxena	A Comparative evaluation of the modern world's impact of mobile cloud computerization	International Conference on Innovations in Computing and Applications (ICICA-24)	1.1
Dr. Satya Sai Srikant	Recovery of secondary resource rare earth bearing Indian beach placer garnet and value addition	Separation Science and Technology	2.4
Ms. Ghazala Ansari	Potato Leaf Disease Detection and Classification Using Deep Learning Technique	2024 4th International Conference on Technological Advancements in Computational Sciences (ICTACS)	1.3
Ms. Ghazala Ansari	Intelligent Identification on State-Wise COVID-19 Infection in India	2024 4th International Conference on Technological Advancements in Computational Sciences (ICTACS)	0.4
Dr. Vinoth Kumar M	Towards last-mile connectivity in 6G-IoT: An integrated MIMO-FSO communication system and FBG sensors under atmospheric attenuations, strain and temperature effects	Engineering Science and Technology, an International Journal	5.1

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr Santosh Kumar Rai	Thermodynamic characterization of transient valve temperatures in diesel engines using probabilistic methods	Journal of Non-Equilibrium Thermodynamics	4.3
Dr Vipin Kumar Verma	Study of the Influence of Nanoparticle Reinforcement on the Mechanical and Tribological Performance of Aluminium Matrix Composites - A Review	Lubricants ( MDPI )	3.1
Dr. Ankit Sonthalia	Early Prediction of the Remaining Useful Life of Lithium-Ion Cells Using Ensemble and Non-Ensemble Algorithms	Energy Storage	3.6
Dr. Ankit Sonthalia	A Deep Learning Multi-Feature Based Fusion Model for Predicting the State of Health of Lithium-Ion Batteries	Energy	9
Dr. Brijesh Kumar Sharma	Implementation of adaptive cloud security framework for cloud computing monitoring system applications	AIP Conference Proceedings	0.87
Dr. Chandra Shakher Tyagi	Laser welding on 10 mm thick grade 92 steel for USC applications: microstructure and mechanical properties	Archives of Civil and Mechanical Engineering	4.4
Dr. Dhowmya Bhatt	Early Prediction of the Remaining Useful Life of Lithium-Ion Cells Using Ensemble and Non-Ensemble Algorithms	Energy Storage	3.6

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr. Pallavi Jain	GO modified with amino-acid based EMs to sense noscapine using experimental and computational approaches	Microchemical Journal	4.9
Dr. Pallavi Jain	Synthesis, characterization, biological activity, DFT, molecular docking and ADME studies of metal (II) complexes of a bidentate Schiff's base (E)-4-chloro-2-(2-hydroxy-3-methoxybenzylidene)amino) benzoic acid	Journal of Dispersion Science and Technology	1.9
Dr. Pallavi Jain	A multifaceted approach to explore the formation of EM of paracetamol with improved Solubility and its composite with graphene oxide	Journal of Molecular Liquid	5.3
Dr. Rajendra Prasad Mahapatra	Hyex-net: a hybrid efficient Xception network for human activity recognition using multimodalities	Cluster Computing	3.2
Dr. Rupak Sharma	Implementation of adaptive cloud security framework for cloud computing monitoring system applications	AIP Conference Proceedings	0.5
Dr. Sachin Sirohi	Microstructure and mechanical behavior study of the GTAW joint of AISI310 and Modified 9Cr-1Mo (P91) Steel	Journal of Material Engineering and Performance	2.2
Dr. Sachin Sirohi	Pulsed GTAW joint of P92 steel and Inconel 625: microstructure and mechanical properties	Archives of Civil and Mechanical Engineering	4.4

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<b>NAME</b>	<b>TITLE</b>	<b>JOURNAL</b>	<b>IF</b>
Dr. Sachin Sirohi	Laser welding on 10 mm thick grade 92 steel for USC applications: microstructure and mechanical properties	Archives of Civil and Mechanical Engineering	4.4
Dr. Sorabh Chaudhary	Morpho-molecular characterization of native Trichoderma spp. isolates and their biocontrol efficacy against Fusarium oxysporum	Vegetos	0.042
Dr. Vinam Tomar	LightGBM-Based Anomaly Detection System for Modern Network Traffic Using UNSW-NB15 Dataset	Journal of Information Systems Engineering and Management	1.3
Dr. D.Ganesh Gopal	Trustworthy-Based User Behavior Model: Integrity-Based Resilient Deep Learning Approach in Distributed Networks for Next-Generation Applications	IEEE Transactions on Computational Social Systems	4.6
Dr. Rupali Singh	Noise Removal of EMG Signal for Healthy Person Using Wavelet Decomposition Method with Three Different Wavelet Families to Identify the Best Wavelet for Noise Removal	2024 1st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI) -IEEE	0.7

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr.Uma Meena	AM-UNet: Road Network Extraction from high-resolution Aerial Imagery Using Attention-Based Convolutional Neural Network	Journal of the Indian Society of Remote Sensing	2.2
Mr. Nitish	A critical review on SGLT2 inhibitors for diabetes mellitus, renal health, and cardiovascular conditions	Diabetes Research and Clinical Practice	6.1
Dr. Satya Sai Srikant	Design and Analysis of a Slotted Rectangular Patch Antenna for Dual-Band Radar Applications in C and X Bands	2024 9th International Conference on Communication and Electronics Systems (ICCES)	0.9
Dr. Ajay Singh Yadav	Predicting Cyber Identity Theft: A Cutting Edge Approach using Cascaded ResNet-LSTM Deep Learning Models	IEEE Xplore (2024) 4th International Conference on ubiquitous Computing and Intelligent Information Systems (ICUIS)	0.5
Dr. Ajay Singh Yadav	Next Gen Smart Vehicle Number Plate Recognition with Dynamic Character Encoding for Lightning-Fast and Accurate Detection	IEEE Xplore (2024) 4th International Conference on ubiquitous Computing and Intelligent Information Systems (ICUIS)	0.9
Dr. Garima Pandey	Unraveling the Therapeutic Potential of Alzheimer's Drugs: A Comprehensive Review	Applied Organometallic Chemistry	2.1
Dr. Pallavi Jain	New Development of Triaminepyrimidine Derived Tridentate Schiff's Base Ligand and Its Mn (II), Co (II), Ni (II), Cu (II) Complexes: Synthesis, Spectral, Molecular Docking, DFT, In Silico ADMET and Biological Screening	<i>Applied Organometallic Chemistry</i>	4.1

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr Satya Sai Srikant	Comparative Study of Circularly Polarized Printed Patch Antenna for Wide Band Applications	Proceedings of International Conference on Recent Trends in Computing. ICRTC 2024	0.6
Mr. Nishant Srivastava	Temperature sensitivity of GaSb/Si/SiGe Heterojunction Vertical Nanowire Junctionless Field-Effect Transistor for Logic Circuit	Micro and Nanostructures	2.7
Dr. Jitendra Singh	Enhancing Sugarcane Disease Diagnosis: UNET Architecture for Red Rot Identification	IEEE Explore	0.9
Dr. Pushpendra Singh	Context - Aware Legal Summarization using Reinforcement Learning	2nd International Conference on Computational Intelligence, Communication Technology and Networking (CICTN)	0.5
Dr. Ajay Singh Yadav	Optimizing Two-warehouse inventory model for deteriorating items with generalized Exponential demand, partial backlogging, and inflation using bacterial foraging optimization	Reliability: Theory & Applications	1.2
Dr. Ajay Singh Yadav	A production inventory model for deteriorating items with time and price reliant demand using flower pollination optimization	Reliability: Theory & Applications	1.2
Dr Mudit Prakash Srivastava	Pure WS <sub>2</sub> and nano composite WS <sub>2</sub> /MoS <sub>2</sub> thin film based heterojunction photodetector	Journal of Sol-Gel Science and Technology (Springer Science)	2.3
Dr.D.Ganesh Gopal	Real-Time Threat Detection and AI-Driven Predictive Security for Consumer Applications	IEEE Transactions on Consumer Electronics	4.5

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr.D.Ganesh Gopal	Secure Chat System: Harnessing the Power of Hybrid Encryption for Enhanced Security and Confidentiality	International Conference on Recent Trends in Computing	0.6
Dr. D. Ganesh Gopal	Secure and Optimized Cloud Storage with Privacy Preservation using Improved SHA-256	2025 2nd International Conference on Computational Intelligence, Communication Technology and Networking (CICTN)	0.5
Dr. PRASHANT KUMAR	Preparation and Evaluation of N-Acetyl D-Glucosamine Ethosomal Gel for the Treatment of Hyperpigmentation	Journal of Pharmaceutical Innovation	2.7
DR. PRASHANT KUMAR	Nanotechnology: A State of the Art for the Management of Ocular Disorders—A Roadmap	BioNanoScience	3.2
Dr. Ankit Sonthalia	Enhancing performance and reducing emissions with renewable fuels: Prosopis Juliflora methyl ester–alcohol blends with hydrogen in a compression ignition engine	International Journal of Hydrogen Energy	8.1
Dr. Sarvendra Kumar	A comprehensive theoretical analysis of Cs <sub>2</sub> KGaX <sub>6</sub> (X = Cl, Br, I): For green energy solutions.	Solid State Communications	2.1
Dr. Rupali Singh	QCA based programmable logic block for implementation of digital circuits in multilayer framework	Analog Integrated Circuits and Signal Processing	1.2
Dr. Rupali Singh	Enhancing Secure and Efficient Communication in Free-Space Optical Networks Using Spectral Amplitude Coding - OCDMA Technology	Proceedings of International Conference on Recent Trends in Computing ICRTC 2024, Volume 2	0.5

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr. Ompal Singh	Probabilistic inventory model for deteriorating items with uncertain demand under pentagonal fuzzy environment	Reliability: Theory & Applications	0.66
Dr. Piyush Gupta	Shielding the future: The role of innovative materials in electromagnetic interference mitigation	Journal of alloys and compounds	5.8
Dr. Ravi Tomar	Unveiling the Anticancer Potential of Formylbenzyl-N,N Dimethylmethanaminium-Based Ionic Liquids via Cheminformatics Approaches	Journal of Chemistry	2.8
Dr. Ravi Tomar	Revolutionizing wastewater treatment: Polymeric metal oxide nanocomposites for effective dye and heavy metal removal	Chemical Engineering Journal	13.4
Dr. M. Vinoth Kumar	Enhancing Secure and Efficient Communication in Free-Space Optical Networks Using Spectral Amplitude Coding - OCDMA Technology	Proceedings of International Conference on Recent Trends in Computing ICRTC 2024, Volume 2	0.6
Dr. D. Franklin Vinod	Multimodal Deep Belief Network with Layer-Wise Relevance Propagation: A Solution for Heterogeneous Image Challenges in Big Data	Journal of Information Systems Engineering and Management	1.1

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Prof. (Dr.) R.P. Mahapatra	Advancements in Machine Learning Techniques for Hand Gesture-Based Sign Languages Recognition: A Comprehensive Review	Archives Computational Methods in Engineering	9.9
Prof. (Dr.) R.P. Mahapatra	Modeling the Coenzyme A (Coa) biosynthesis pathways in Mycobacterium tuberculosis H37Rv using Petri nets	Journal of Applied Bioanalysis	1.2
Prof. (Dr.) R.P. Mahapatra	Modeling the UDP-GlcNAc biosynthesis I pathways in Mycobacterium tuberculosis H37Rv using Petri nets	Journal of Applied Bioanalysis	1.2
Dr. Pallavi Jain	Recent advancements in synthesis and applications of covalent organic frameworks	Applied Materials Today	7.2
Dr. Garima Pandey	Design, synthesis, and biological evaluation of Schiff-Base Isoxazole hybrids: Exploring novel antimicrobial agents	Bioorganic Chemistry	4.5
Dr. Garima Pandey	A comprehensive review on pyrazole derivatives as corrosion inhibitors: Ligand properties, coordination bonding, and interfacial adsorption	Coordination Chemistry Reviews	20.3
Dr. Rupam Kumari	Multiresolution features for sonic log classification	IEEE Xplore	0.9
Ms. Gurpreet Kour Khalsa	Multiresolution Features for Sonic Log Classification	IEEE Xplore	0.9

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr. Atulya Gupta	Multiresolution Features for Sonic Log Classification	IEEE Xplore	0.9
Dr, Nishant Srivastava	Lateral Si/Si1- xGex/Si Channel Heterostructure Charge Plasma Nanowire JLFET to Eliminate the Effects of Variation of Geometrical Dimensions	International Journal of Numerical Modelling: Electronic Networks, Devices and Fields	0.6
Dr. Sachin Sirohi	Pulsed current GTAW Inconel 625/AISI 304 L steel dissimilar joint: Microstructure and mechanical properties	Journal of Constructional Steel Research	0.4
Mr. Nitish	Integrating Gut-Brain-Axis: Exploring the neurogastrointestinal interaction and therapeutic potential in autism spectrum disorder	Endocrine, metabolic & immune disorder-drug targets	7.2
Ms. Ghazala Ansari	Precision Medicine and Personalized Healthcare: Interdisciplinary Approaches for Enhanced Patient Outcomes	Journal of Neonatal Surgery	4.5
Ms. Ghazala Ansari	Translational Medicine: Bridging the Gap between Laboratory Research and Clinical Practice in Public Health	Journal of Neonatal Surgery	20.3
Dr. Niranjana Lal	A Blockchain-based architecture for secure peer-to-peer management of personal health information in healthcare networks	International Journal of Sustainable Building Technology and Urban Development	0.9

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr Mudit Prakash Srivastava	Photo Sensing Properties of Heterojunction WO <sub>3</sub> /p-Si and WS <sub>2</sub> /p-Si Thin Films Synthesized by CBD	ECS Journal of Solid State Science and Technology (IOP Science)	1.8
Dr. Bhawna	Synergistic Heterojunction effects in Ag <sub>3</sub> PO <sub>4</sub> /SnO <sub>2</sub> nanocomposites: isoproturon degradation	Frontires in Bioengineering and Biotechnology	4.3
Dr. Shashi Mehrotra	Deep Learning Approaches for Battery Capacity and State of Charge Estimation with the NASA B0005 Dataset	Computer Material & Countinua	0.9
Dr. Jitendra Singh	Optimising Electric Charging Station Management for Green Transportation with Cloud-Based E- GraphSage Models	IEEE	0.9
Dr. Dinesh Kumar	Cloud Based Automated Control System Workshops and Rooms for ControllingParameters	2025 First International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies (CE2CT)	0.5
Dr. Parbhat Gupta	Multiresolution features for sonic log classification	2025 International Conference on Intelligent Control, Computing and Communications (IC3)	0.5
Dr. D. Ganesh Gopal	Comparing Multilingual Emoji Enhanced Product Reviews: A Transformer Based Approach for Language Pair and Emotion Detection	Journal of Machine and Computing	1

# PUBLICATIONS

NAME	TITLE	JOURNAL	IF
Dr.D.Gaanesh Gopal	Expert Crawler: Amalgamation of Deep Learning Models for Multilingual Multiclass Classification of Product Reviews	Journal of Machine and Computing	1
Ms. Megha Saxena	Multiresolution features for sonic log classification	IEEE Explore	0.5
Ms. Megha Saxena	Machine Learning Techniques for Enhancing Security in Wireless Communication Systems	IEEE Xplore	0.5
Dr. A. Geetha Bhavani	Artificial Neural Network-Based Modeling of Atmospheric Zinc Corrosion Rates using Meteorological and Pollutant Data	Coatings	3.2
Dr. Pushpendra Singh	A Comprehensive Analysis of Machine Learning Techniques in Advancing Composite Materials	International Conference on Intelligent Control, Computing and Communications (IC3) 2025	0.5
Dr. Pushpendra Singh	Real-Time College Bus Tracking Application Designed for Hybrid Smartphones	International Conference on Intelligent Control, Computing and Communications (IC3) 2025	0.5
Dr. Pushpendra Singh	Traveltrek: Effortless Travel Crafting and Management	International Conference on Intelligent Control, Computing and Communications (IC3) 2025	0.5

# PUBLICATIONS

NAME	TITLE	Journal	IF
Mr. Himanshu	Real-Time College Bus Tracking Application designed for hybrid smartphones	2025 International Conference on Intelligent Control, Computing and Communications (IC3)	0.5
Mr. Himanshu	Traveltrek : Effortless Travel Crafting and Management	2025 International Conference on Intelligent Control, Computing and Communications (IC3)	0.6
Mr. Himanshu	Enhancing User Security and Experience: Implementing Firebase and Google Authentication in Android Development for News App	Applications of Artificial Intelligence in 5G and Internet of Things	3.8
Dr. Rupak Sharma	Integrated Machine Learning Approach for Attack Detection in MQTT-Enabled Smart Home Systems	2024 International Conference on Emerging Technologies and Innovation for Sustainability (EmergIN)	0.6
Dr. Rupak Sharma	Cloud-Based Deep Learning for Weather Forecasting	2025 International Conference on Pervasive Computational Technologies (ICPCT)	0.9
Dr. AVNEESH VASHISTHA	AI-driven intrusion prevention system: leveraging mathematical foundations for advanced threats detection	International Journal of Information Technology	5.135
Dr Vipin Kumar Verma	Hybrid machine learning modelling and feature interpretation of load-carrying capacity of PVC tube-confined concrete columns	Asian Journal of Civil Engineering	1
Dr. Oshin sharma	Going beyond keywords in text	International conference on Innovation in computing and Engineering. ICE	0,6

# PUBLICATIONS

NAME	TITLE	Journal	IF
Dr. Abhilasha Singh	Flexi-Fit: AI-Based Fitness Tracker	3rd International Conference on Disruptive Technologies (ICDT) 2025	0.9
Dr. Abhilasha Singh	An Extensive Overview of anomaly Detection Analysis in FL- Based IDS	Sixth International Conference on Futuristic Trends in Networks and Computing Technologies (FTNCT06)	0.4
Dr. Abhilasha Singh	Analyzing Blockchain Technology for Enhancing Security in Smart Home Systems: Current Developments and Future Directions	2025 3rd International Conference on Disruptive Technologies (ICDT)	0.6
Dr Jayendra Kumar	Simultaneous Method Development And Validation Of Vildagliptin And Metformin In Bulk By Rp-Hplc	Journal of Neonatal Surgery	0.2
Ms. Neha Ahlawat	A Privacy Based Deep Learning Algorithm for Big Data Analytics	Informatica	2.8
Dr. D. Franklin Vinod	A Privacy Based Deep Learning Algorithm for Big Data Analytics	Informatica	2.8
Dr. Deepak Sharma	Advanced Clustering and Predictive Modeling Using AI/ML Algorithms in Smart Healthcare	IEEE Xplore	0.9
Dr. Deepak Sharma	Real Time Data Analysis: A Machine Learning Approach to Optimization	IEEE Explore	0.9

# PUBLICATIONS

NAME	TITLE	Journal	IF
Ms. VAISHALI GUPTA	Enhancing Pulmonary Effusion Diagnosis using Automated Feature Extraction Algorithms	IEEE XPLORE	0.5
Ms. VAISHALI GUPTA	Exploring the Potential of AI/ML Algorithms for Automated Diagnosis in Smart Healthcare	IEEE XPLORE	0.6
DR. Prashant Kumar	Unraveling the artificial intelligence role in drug discovery and pharmaceutical product design: an opportunity and challenges.	Discover Artificial Intelligence	1.9
Dr. Anuradha Shukla	Theoretical Examination and Exploration of Intermolecular Interactions and Chemical Reactivity of Nitrofurantoin-4-Hydroxy Benzamide Co-Crystal	Chemistry Select	2
Dr. Shobha Bhardwaj	Key drivers of consumers' preference for purchasing ready-to-eat food products: a study of Delhi-NCR	International Journal of Services, Economics and Management (IJSEM)	0.6

# PUBLICATIONS

NAME	TITLE	Journal	IF
Ms. Ghazala Ansari	Device To Detect Science Age of Objects	NA	0.7
Dr. Jitendra Singh	Enhanced Helmet Detection in Surveillance Systems with YOLOv6 for Accident Prevention and Safety Compliance	Journal of Scientific & Industrial Research	3.9
Dr. Garima Pandey	Graphene Oxide for Antimony Sensing: An Integrated Electrochemical, Spectroscopic, and Computational Study	Journal of Inorganic and Organometallic Polymers and Materials	3.2
Dr. Garima Pandey	An insight for the sensing ability of Graphene Oxide for Pymetrozine through Electrochemical studies, In silico studies, and experimental approaches	Journal of the Indian Chemical Society	2.1
Dr. Garima Pandey	A comparative in silico study of nospapine, bosutinib, and the co-crystal ligand (DHHE) of 3B99 to investigate their interaction with prostacyclin synthase	Chemical Papers	2.5
Dr. Pallavi Jain	3d-Transition Metal Complexes of a Tridentate Ligand; Synthesis, Characterization, Physico-Chemical Studies, Antimicrobial Activity, IN Silico Molecular Docking and ADME Studies	Chemistry Africa	4

# PUBLICATIONS

NAME	TITLE	Journal	IF
Dr. Kamakshi Saxena	Exploring salinity effects on moth beans in response to physiological parameters	Journal of Ecological Engineering	1.3
Dr. Kamakshi Saxena	Responses of Natural Plastisphere community and zooplankton to microplastic pollution: a review on novel remediation strategies	Achieves of Microbiology	2.3

# PATENTS

NAME	TITLE	Status
Dr. Kanika Garg Dr. Abhilasha Singh Dr. Chiranjit Dutta	AI driven modular cyber security solution for adaptive threat intelligence	Published
Ms. Madhuri Sharma Dr Vinam Tomar Ms. Anjali Sharma Dr. Rajneesh Kumar Dr. Naresh Sharma	A Comprehensive Cybersecurity Protocol for Secure Data Exchange in Cloud-IoT Ecosystem	Published
Ruchi Tripathi	Interactive Digital Marketing Display for Financial Products	Published
Dr. Ajay Jain, Dr. Ekta Tyagi, Dr. Shobha Bhardwaj, Dr. Shardul Shankar, Dr. Rohit Kaushik, Dr. Vishal, Dr. Ruchi Singh	Smart Device for Processing Employee Financial Wellbeing Data	Granted
Dr. Ajay Jain, Dr. Ruchi Tripathi, Dr. Neeru Chaudhary, Dr. Rohit Kaushik, Dr. Anuradha Tyagi, Dr. Sunny Gupta, Ms. Ruchika Vats, Ms. Vandana Gupta, Dr. Shobha Bhardwaj	Interactive Digital Marketing Display for Financial Products	Granted

# PATENTS




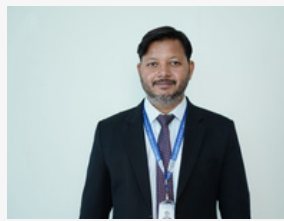








NAME	TITLE	Status
Dr. Jhalak Gupta	Sensor based Chemical Reaction Monitoring Device	Granted
Dr. Sarvendra Kumar	Solar panel with radiator cooling system	Granted
Dr. Vipin Kumar Verma	Computing device for establishing communication in an E- commerce Platform	Design Patent Granted
Dr. Saurabh Amrutlal Dave, Somdotta Roy Choudhury, Megha Saxena, Vaibhav Sharma, Prof. Dr. Khalid Ahmed Aldhorae, Dr. Jaidev Gehija, Dr. Doddamanekoppa Suresha Praveena, Dr. Chanakya Channakeshvappa Nanjunda	AI Based Computing Device for online learning	Granted


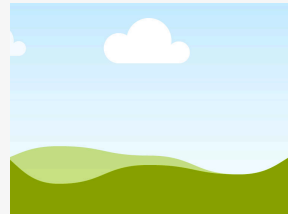



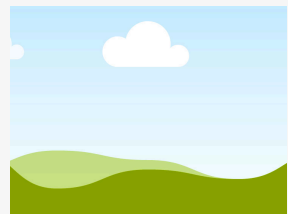

# MEMORANDUM OF UNDERSTANDING

<b>Sr. No</b>	<b>Organisation with which MoU is signed</b>	<b>Name of the institution/ industry/ corporate house</b>	<b>Department</b>	<b>Month of signing MoU</b>	<b>MOU Duration</b>
1	Kailash Medicare & Research Centre	Kailash Medicare & Research Centre	Pharmacy	12-April-2025	5 years
2	Scholars Merit Online Pvt Ltd	Scholars Merit Online Pvt Ltd	Management	21-Feb-2025	3 years
3	Religare Broking Limited	Religare Broking Limited	Management	22-Jan-2025 in process	1 year
4	Smart Hospital, Ghaziabad	Smart Hospital, ghaziabad	Pharmacy	12-April-2025	5 years
5	Plus Formulations Pvt Ltd	Plus Formulations Pvt Ltd	Pharmacy	11-April_2025	5 years

# INCENTIVES



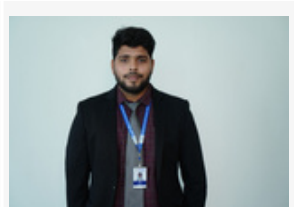




WE ARE THRILLED TO EXTEND OUR HEARTFELT CONGRATULATIONS TO EACH OF YOU WHO HAVE RECEIVED INCENTIVES FOR YOUR RECENT PUBLICATIONS AND PATENTS. YOUR DEDICATION TO SCHOLARLY EXCELLENCE AND COMMITMENT TO ADVANCING KNOWLEDGE THROUGH HIGH-QUALITY RESEARCH IS TRULY COMMENDABLE. THESE INCENTIVES ARE NOT JUST A RECOGNITION OF YOUR HARD WORK, BUT ALSO A TESTAMENT TO THE IMPORTANT CONTRIBUTIONS YOU CONTINUE TO MAKE TO YOUR FIELDS AND TO OUR SRMIST FAMILY.

FACULTY	NAME	FACULTY	NAME
	DR. KAMAKSHI BIOLOGY		DR. PRASHANT KUMAR PHARMACY
	DR. PIYUSH GUPTA CHEMISTRY		DR. JAYENDRA KUMAR PHARMACY
	DR. GARIMA PANDEY CHEMISTRY		DR. RUPAK SHARMA MCA
	DR. PALLAVI JAIN CHEMISTRY		DR. VAISHALI GUPTA MCA
	DR. RAVI TOMAR CHEMISTRY		MOHD. ZAID SAIFI AE
	DR. SANTOSH KUMAR RAI ME		DR. BRIJESH KUMAR SHARMA COMPUTER APPLICATION

FACULTY	NAME
	<b>DR. SACHIN SIROHI ME</b>
	<b>DR. RUCHI TRIPHATI FMS</b>
	<b>DR NISHANT SHRIVASTAVA ECE</b>
	<b>DR. ABHISHEK SINGAL ECE</b>
	<b>DR YAMEEN KHAN EFL</b>
	<b>DR SHOBHA BHARDWAJ BBA</b>
	<b>DR. SATYA SAI SRIKANT ECE</b>

FACULTY	NAME
	<b>DR. JHALAK GUPTA PHYSICS</b>
	<b>DR. ANURADHA SHUKLA PHYSICS</b>
	<b>DR. DEEPAK SHARMA MCA</b>
	<b>DR. MUDIT PRAKASH SRIVASTAVA PHYSICS</b>
	<b>MR. SARVENDRA KUMAR PHYSICS</b>
	<b>DR. AJAY SINGH YADAV MATHEMATICS</b>
	<b>DR. SHIKHA BANSAL MATHEMATICS</b>

FACULTY	NAME	FACULTY	NAME
	<b>DR OMPAL SINGH MATHEMATICS</b>		<b>DR. JITENDRA KUMAR CSE</b>
	<b>MS. GHAZALA ANSARI ECE</b>		<b>DR NEHA AHLAVAT CSE</b>
	<b>DR. M. VINOOTH KUMAR ECE</b>		<b>DR. D. GANESH GOPAL CSE</b>
	<b>DR. ANKIT VERMA ECE</b>		<b>DR. CHANDRA SHEKHAR TYAGI CSE</b>
	<b>DR. RAJENDRA PRASHAD MAHAPATRA CSE</b>		<b>DR. DHOWMYA BHATT CSE</b>
	<b>DR. ANKIT SONTHALIA AE</b>		<b>DR. PUSHPENDRA SINGH CSE</b>
	<b>DR. D. FRANKLIN VINOD CSE</b>		<b>DR. VINAM TOMAR CSE</b>
	<b>DR. ATULYA GUPTA CSE</b>		<b>MR. PARBHAT GUPTA CSE</b>

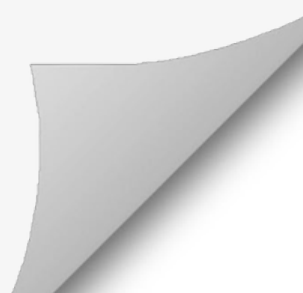
FACULTY	NAME	FACULTY	NAME
	<b>DR BHAVNA CHEMISTRY</b>		<b>PROF. DR. A. GEETHA BHAVANI CHEMISTRY</b>
	<b>MR. HIMANSHU CSE</b>		<b>DR PIYUSH GUPTA CHRMISTRY</b>
	<b>DR SORABH CHAUDHARY BIOLOGY</b>		<b>DR. SEEMA AGGARWAL MATHEMATICS</b>
	<b>DR. VIPIN KUMAR VERMA MATHEMATICS</b>		<b>MR. NITISH KUMAR PHARMACY</b>
	<b>DR. UMA MEENA CSE</b>		<b>MS. MEGHA SAXENA CSE</b>
	<b>MS. RUPAM KUMARI CSE</b>		<b>MS. GURPREET KAUR KHALSA CSE</b>
	<b>DR SHASHI MAHLOTRA CSE</b>		<b>DR. NIRANJAN LAL CSE</b>
	<b>DR. OSHIN SHARMA CSE</b>		<b>MR. PARBHAT GUPTA CSE</b>

SRMIST is deeply committed to "Translating knowledge into action through strategic research and innovation policies." This achievement stands as a shining example of that vision in practice. Your contribution demonstrates how academic ingenuity, when supported by a robust institutional framework, can yield solutions that serve industry, healthcare, agriculture, energy, and other critical sectors.

As your technologies progress toward real-time use, they represent more than innovation — they represent SRM's promise to contribute meaningfully to national development, global competitiveness, and community betterment.

**We sincerely commend your dedication, perseverance, and pioneering spirit. This milestone is a proud moment for the entire SRM community and an inspiration to all researchers and students striving to make a difference.**

**Wishing you continued success in your research journey and many more milestones ahead.**



# Why Research Ethics Matter !

In the pursuit of knowledge, how research is conducted is just as important as the outcomes it produces. Research ethics ensure that this pursuit is guided by integrity, respect, and accountability. These principles not only safeguard the rights of participants and the accuracy of findings but also uphold public trust in science.

## What Are Research Ethics?

Research ethics are a set of moral principles that guide the planning, conduct, and reporting of research. These include:

- Informed consent and protection of human subjects
- Honesty and transparency in data collection and reporting
- Respect for intellectual property and collaboration
- Avoidance of harm to participants or the environment
- Adherence to institutional and legal standards

## Why Do Ethics Matter in Research

### 1. Protection of Participants

Ethical research respects the autonomy, dignity, and rights of participants. It ensures informed consent, confidentiality, and minimization of harm.

### 2. Integrity and Accuracy of Data

Scientific integrity depends on truthful and unbiased reporting. Misconduct such as fabrication or falsification compromises the credibility of the research.

### 3. Public Trust and Societal Impact

Unethical research can have long-lasting damage on public trust in science, medicine, and academia.

### 4. Legal and Professional Accountability

Researchers must comply with ethical standards imposed by funding agencies, review boards, and academic institutions.

## Real-World Case Studies in Research Ethics

### Case Study 1: The Tuskegee Syphilis Study (USA, 1932–1972)

**Issue:** African-American men with syphilis were misled and denied treatment to study the progression of the disease.

**Ethical Violations:**

- Lack of informed consent
- Withholding of treatment
- Exploitation of vulnerable populations
- 

**Impact:** The scandal led to widespread mistrust in the healthcare system and led to the establishment of the Belmont Report and Institutional Review Boards (IRBs) in the U.S.

### Case Study 2: Hwang Woo-suk's Stem Cell Fraud (South Korea, 2004–2005)

**Issue:** Falsified data in publications claiming successful cloning of human embryonic stem cells.

**Ethical Violations:**

- Fabrication and falsification of data
- Coercion of junior researchers to donate eggs

**Impact:** Retracted publications, loss of credibility, and institutional reforms in ethical oversight for biotechnology research.

### Case Study 3: Henrietta Lacks and HeLa Cells (USA, 1951)

**Issue:** Cells were taken from Henrietta Lacks without her consent, later becoming the basis for numerous medical breakthroughs.

**Ethical Violations:**

- Lack of informed consent
- Commercial use without family knowledge or compensation
- 

**Impact:** Sparked global discussions on patient rights, bioethics, and compensation in biomedical research.

#### **Case Study 4: Andrew Wakefield's MMR Vaccine Study (UK, 1998)**

**Issue:** Published a falsified link between the MMR vaccine and autism, based on manipulated data.

**Ethical Violations:**

- Conflict of interest
- Data falsification
- Unethical experimentation on children
- 

**Impact:** The study was retracted, Wakefield lost his medical license, and global vaccination rates dropped, leading to disease outbreaks.

#### **Case Study 5: HPV Vaccine Trial on Tribal Girls (Andhra Pradesh, 2009)**

**Issue:** A vaccine trial for cervical cancer was conducted on over 23,000 tribal girls by PATH in partnership with ICMR and state health departments

**ETHICAL Violations:**

- Lack of proper informed consent
- Inadequate medical follow-up
- Language barriers in consent forms

**Impact:** Deaths of 7 girls raised alarms. The Indian Parliamentary Standing Committee criticized ethical and regulatory failures, prompting reforms in clinical trial guidelines.

#### **Case Study 6: Plagiarism in Academic Research**

**Issue:** Multiple high-profile plagiarism cases have emerged in Indian universities and colleges, involving copied theses and research papers.

Example: A 2019 UGC blacklist of 35 universities for academic malpractices.

**Violations:**

- Lack of originality
- Misappropriation of others' work
- Authorship disputes
- 

**Impact:** Introduction of UGC's ShodhShuddhi (plagiarism detection) and Academic Integrity Policies in institutions.

## **Case Study 7: Retraction of Papers by Prominent Scientists (2016–2021)**

**Issue:** Over 100 papers by Indian researchers were retracted due to image duplication, data manipulation, or authorship issues.

Example: Retractions from premier institutes like CSIR labs and IISc raised concerns.

### **Violations:**

- Manipulated images or graphs
- Duplicate submissions
- Lack of ethical review

**Impact:** Highlighted the need for stronger ethics committees, training in research integrity, and peer accountability.

## **Case Study 8: Clinical Trials Without Ethical Clearance**

**Issue:** Several pharma companies and hospitals were found to conduct drug trials without proper Institutional Ethics Committee (IEC) approval.

**Impact:** Media and legal scrutiny led to the strengthening of the New Drugs and Clinical Trials Rules, 2019, improving ethical oversight in human trials.

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### **Key Lessons**

- Ethics failures can harm lives, reputations, and scientific progress
- Proper informed consent, transparency, and accountability are essential
- Institutions must invest in ethics training, review boards, and integrity checks
- Ethical lapses can have national and international consequences

### **Conclusion**

Ethics in research is not just about compliance—it is about credibility, compassion, and commitment. Especially in a country like India, where research can directly affect millions of lives, upholding strong ethical standards is a shared responsibility of researchers, institutions, and regulators.

~ Prof. (Dr.) A. Geetha Bhavani

# Ancient Research Knowledge: Wisdom That Shaped the World

## The Curiosity That Built Civilizations

Before the internet, microscopes, and supercomputers, humanity relied on the most powerful tools of all — eyes, hands, and an endless thirst for answers. Ancient civilizations weren't just storytellers; they were researchers, innovators, and record keepers who laid the groundwork for today's science.

## Science in Sandals

Egypt – Master engineers who built the pyramids with astonishing precision and wrote detailed medical papyri.

India – Gave the world zero, advanced metallurgy, and medical techniques that still inspire surgeons today.

China – Invented paper, the compass, and fireworks while keeping meticulous star charts.

Greece – Home to Aristotle's logic, Archimedes' engineering genius, and Hippocrates' medical ethics.

## The Ancient Research Method

They didn't have double-blind trials, but their approach had familiar steps:

Observe – Watch the skies, seasons, and human body.

Experiment – Try herbs, alloys, and construction techniques.

Record – Etch findings into stone, clay tablets, or scrolls.

Share – Pass knowledge through trade routes, libraries, and oral tradition.

## When Science Met Spirit

For the ancients, research wasn't only about matter — it was also about meaning.

Mayan astronomy guided both calendars and religious rituals.

Ayurveda balanced body, mind, and spirit in healing.

Egyptian medicine combined herbal remedies with sacred chants.

## Why It Still Matters

Many “modern” ideas aren't modern at all:

Surgical instruments? Ancient India had them.

Sustainable farming? Mesopotamia was doing it thousands of years ago.

Herbal medicine? China and Egypt documented them in detail.

## The Timeless Lesson

**Ancient research shows that knowledge grows when curiosity meets patience — and when discoveries are shared, not hidden. In a world chasing the next big innovation, remembering the first great innovations keeps us grounded in the roots of human wisdom.**

MS. ANJALI SINGH  
RESEARCH SCHOLAR



# NURTURING FUTURE RESEARCHERS

AT THE HEART OF THE DEPARTMENT'S PHILOSOPHY IS A BELIEF THAT STUDENTS ARE NOT JUST LEARNERS—THEY ARE EMERGING CONTRIBUTORS TO THE WORLD'S KNOWLEDGE. FROM THE FIRST SEMESTER, EACH STUDENT IS PAIRED WITH A DEDICATED FACULTY MENTOR WHO BECOMES BOTH A GUIDE AND A COLLABORATOR. TOGETHER, THEY EXPLORE RESEARCH IDEAS, REFINE HYPOTHESES, AND NAVIGATE THE INTRICATE JOURNEY FROM DATA COLLECTION TO MEANINGFUL CONCLUSIONS.

WORKSHOPS ON SCIENTIFIC WRITING, DATA ANALYSIS, AND ETHICAL RESEARCH PRACTICES ARE HELD THROUGHOUT THE YEAR, GIVING STUDENTS THE CONFIDENCE TO TRANSFORM THEIR IDEAS INTO PUBLISHABLE WORK. THOSE WITH PROMISING RESULTS ARE ENCOURAGED TO PRESENT AT CONFERENCES, WHERE THEY GAIN NOT ONLY VALUABLE FEEDBACK BUT ALSO THE EXPERIENCE OF ENGAGING WITH A GLOBAL ACADEMIC COMMUNITY.

THE DEPARTMENT'S SUPPORT EXTENDS BEYOND TECHNICAL TRAINING—FACULTY HELP STUDENTS CHOOSE THE RIGHT JOURNALS, POLISH MANUSCRIPTS, AND UNDERSTAND THE NUANCES OF PEER REVIEW. EVERY ACCEPTED PAPER IS CELEBRATED, OFTEN WITH AWARDS, RECOGNITION IN DEPARTMENTAL NEWSLETTERS, AND TRAVEL GRANTS FOR INTERNATIONAL PRESENTATIONS.

THIS CULTURE OF MENTORSHIP ENSURES THAT STUDENTS GRADUATE NOT JUST WITH DEGREES, BUT WITH A TANGIBLE LEGACY OF THEIR ACADEMIC JOURNEY—A RESEARCH PUBLICATION THAT CARRIES THEIR NAME INTO THE WIDER SCHOLARLY WORLD.



**“WHERE  
CURIOSITY  
MEETS  
GUIDANCE”**



**"IN THIS PLACE, RESEARCH IS NOT JUST A DISCIPLINE—IT'S A LEGACY IN THE MAKING."**

**MS PRAPTI TYAGI  
(RESEARCH SCHOLAR)**

**JANUARY-JUNE 2025**



## **SRM INSTITUTE OF SCIENCE AND TECHNOLOGY, DELHI-NCR CAMPUS, GHAZIABAD, U.P. 201204**

SRM Institute of Science and Technology (SRMIST) have taken various research initiatives over the years to mobilize the available knowledge resources for research and also, to come up strongly with innovative solutions. All the research centers of SRMIST function in a cooperative manner to identify and initiate applied as well as cross-disciplinary research projects, create and combine patentable Intellectual Property (IP) components, design and develop prototypes & proof of concepts, manage and market products & solutions (through know-how transferred incubated companies), win and work to deliver funded research projects.

### **VISION**

To emerge as a World – Class University in creating and disseminating knowledge and providing students a unique learning experience in Science, Technology, Medicine, Management and other areas of Scholarship that will best serve the world and for the betterment of mankind

### **MISSION**

- 1.** Provide excellent research culture and infrastructure
- 2.** Serve as a platform for strong interdisciplinary collaborations and knowledge sharing
- 3.** Publish research findings in high quality journals of international repute
- 4.** Create scientifically profound human resources for academic & industrial research
- 5.** Promote industrial collaborations involving active and mutually beneficial R & D projects