SRM
INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University u/s 3 of UGC Act, 1956)
DELHI-NCR CAMPUS, GHAZIABAD (U.P.)

A RESEARCH REPORT

JULY-DECEMBER 2025

VOLUME 3





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, 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

AWARDS



Dr. Neha Srivastava

SRM Institute of Science and Technology, Delhi-NCR Campus, Ghaziabad proudly congratulates Dr. Neha Srivastava, Department of Pharmacy, for her remarkable achievements and exemplary contributions to teaching and academia during the year 2025.

- Shaheed Bhagat Singh Award – 2025: Udaan Ek Pahal Foundation in association with Shaheed Bhagat Singh Antarrashtriya Gaurav Award 2025
- International Karmsheel Award – 2025: Socrates Social Research University
- SPSR Rising Award – 2025: Society of Pharmaceutical Sciences and Research (SPSR)

SRM Institute of Science and Technology Delhi NCR Campus, extend our heartfelt congratulations to all the distinguished faculty and researchers who have been recognized with prestigious research awards.

Your unwavering dedication to academic excellence, innovative research, and scholarly contributions has not only brought individual acclaim but has also enhanced the research stature of SRM at national and international levels.
These awards stand as a testimony to your intellectual rigor, persistence, and commitment to pushing the boundaries of knowledge in your respective disciplines.

We take immense pride in your accomplishments and look forward to your continued contributions in transforming ideas into real-world solutions, driving innovation, and mentoring the next generation of researchers.

International/National Conferences

13th International Conference on Recent Trends in Computing (ICRTC-25)

Department of Computer Science and Engineering, SRM Institute of Science and Technology, NCR Campus, proudly hosted the 13th International Conference on Recent Trends in Computing in collaboration with Springer, on July 4–5, 2025.





This prestigious conference received an overwhelming response with over 350 research paper submissions, out of which 70 high-quality papers were selected through a rigorous peer-review process.





International/National Conferences

10th International Conference on Human Values in Higher Education (ICHVHE)

SRM Institute of Science and Technology, NCR Campus proudly hosted the 10th International Conference on Human Values in Higher Education (ICHVHE), scheduled in alignment with European and American time zones to facilitate meaningful engagement with UHV practitioners and conference participants in these regions.





Graced by eminent dignitaries including Prof. T.G. Sitharam (Chairman, AICTE), Shri Rajul Asthana, Dr. Rajneesh Arora, and others. The session underscored the transformative power of UHV and celebrated SRMIST's voluntary contributions to the cause.





International/National Conferences

9th International Conference on Micro-electronics and Telecommunication Engineering (ICMETE 2025)

SRM Institute of Science and Technology (SRMIST), Delhi-NCR Campus, Ghaziabad, successfully hosted the 9th International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE 2025) on December 4-5, 2025.




The conference aimed to share cutting-edge research in micro-electronics, telecommunication, smart devices, AI-ML, IoT, VLSI, signal and image processing, and emerging technologies. The conference featured 50 research paper presentations across various technical tracks, including computer science, AI-ML, IoT, embedded systems, and energy-based technologies.




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INCUBATION CENTRE
SRMIST
DELHI NCR CAMPUS

INCUBATION CENTRE

Welcome to the Incubation Centre - SRMIST Delhi-NCR Campus, a pioneering initiative designed to nurture entrepreneurial talent and catalyze the transformation of innovative ideas into successful ventures. The Incubation Centre serves as a vibrant hub for aspiring entrepreneurs, providing them with the resources, mentorship, and infrastructure necessary to bring their visions to life. Through a carefully crafted ecosystem, we aim to empower the next generation of trailblazers and change-makers, fostering an atmosphere of creativity, collaboration, and growth.





Industry Talk: Demystifying IPR – A Guide to Filing and Protection

The talk focused on Intellectual Property Rights (IPR), simplifying concepts of filing and legal protection. The expert guided participants on safeguarding innovations, copyrights, patents, and trademarks. The session boosted confidence among students and faculty in securing their creative and research work.





Industry Talk: Pathways to Company Formation and Sustainable Funding

This Industry Talk aimed to provide students with a clear overview of company formation and startup funding. The session covered legal requirements, registration processes, and business structures. Through real-life insights, the expert encouraged students to pursue entrepreneurship with clarity and confidence.

STUDENTS' ACHIEVEMENTS AND AWARDS















CONGRATULATIONS FOR GRANTING EXTRA MURAL RESEARCH PROJECT

We are proud to recognize and appreciate the unwavering dedication, innovation, and scholarly excellence demonstrated by our faculty members through their ongoing research projects. Your tireless efforts continue to push the boundaries of knowledge and inspire the next generation of researchers.

Your work not only strengthens the academic fabric of our institution but also contributes meaningfully to solving real-world problems across disciplines. Whether through groundbreaking discoveries, impactful publications, or collaborative initiatives, your contributions are a testament to the spirit of inquiry and academic excellence we uphold.

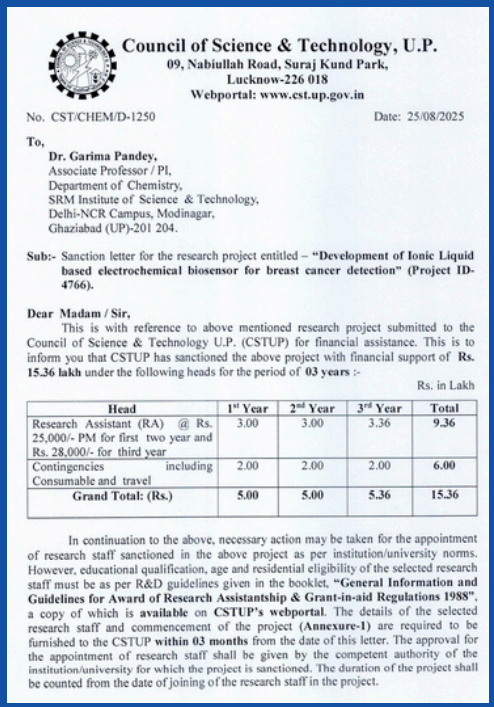
Thank you for your passion, perseverance, and commitment to research excellence. Your achievements make us proud and set a shining example for the entire academic community.



PI: Dr. Garima Pandey



CO PI: Dr. Ravi Tomar



Council of Science & Technology, U.P.
09, Nabiullah Road, Suraj Kund Park,
Lucknow-226 018
Webportal: www.cst.up.gov.in

No. CST/CHEM/D-1250 Date: 25/08/2025

To,
Dr. Garima Pandey,
Associate Professor / PI,
Department of Chemistry,
SRM Institute of Science & Technology,
Delhi-NCR Campus, Modinagar,
Ghaziabad (UP)-201 204.

Sub:- Sanction letter for the research project entitled – **"Development of Ionic Liquid based electrochemical biosensor for breast cancer detection" (Project ID-4766).**

Dear Madam / Sir,
This is with reference to above mentioned research project submitted to the Council of Science & Technology U.P. (CSTUP) for financial assistance. This is to inform you that CSTUP has sanctioned the above project with financial support of **Rs. 15.36 lakh** under the following heads for the period of **03 years** :-

Rs. in Lakh

Head	1st Year	2nd Year	3rd Year	Total
Research Assistant (RA) @ Rs. 25,000/- PM for first two year and Rs. 28,000/- for third year	3.00	3.00	3.36	**9.36**
Contingencies including Consumable and travel	2.00	2.00	2.00	**6.00**
Grand Total: (Rs.)	**5.00**	**5.00**	**5.36**	**15.36**

In continuation to the above, necessary action may be taken for the appointment of research staff sanctioned in the above project as per institution/university norms. However, educational qualification, age and residential eligibility of the selected research staff must be as per R&D guidelines given in the booklet, **"General Information and Guidelines for Award of Research Assistantship & Grant-in-aid Regulations 1988"**, a copy of which is **available** on **CSTUP's webportal**. The details of the selected research staff and commencement of the project **(Annexure-1)** are required to be furnished to the CSTUP **within 03 months** from the date of this letter. The approval for the appointment of research staff shall be given by the competent authority of the institution/university for which the project is sanctioned. The duration of the project shall be counted from the date of joining of the research staff in the project.

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PUBLICATIONS
JULY-DECEMBER
2025

PUBLICATION (JULY 2025)

It is with great pride and admiration that we extend our heartfelt congratulations to all faculty members who have recently achieved success in academic publications in SCI and SCOPUS indexed journals. Your dedication to advancing knowledge and your commitment to research excellence continue to elevate the reputation of our institution.

NAME	TITLE	IF
DR. BHAWNA	EFFECTIVE FLAME-RETARDANT COATINGS FOR EXPANDED POLYSTYRENE FOAM:A STUDY BASED ON DEEP EUTECTIC SOLVENT AND GRAPHENE OXIDE	3.7
DR. AJAY SINGH YADAV	OPTIMIZATION OF PERISHABLE INVENTORY IN TWO-WAREHOUSE SYSTEM USING GENETIC ALGORITHMS WITH LOG-GAMMA DECAY AND NONLINEAR DEMAND	0.4
DR. AJAY SINGH YADAV	ANT COLONY OPTIMIZATION-BASED INVENTORY MODEL FOR DETERIORATING ITEMS WITH POLYNOMIAL DEMAND AND TIME-DEPENDENT COSTS	0.4
DR. ABHILASHA SINGH	UNVEILING THE STATISTICAL POWER OF MLE IN VISUALIZING EHR SOFTWARE RELIABILITY USING WEIBULL DISTRIBUTION	0.4
DR. TANUJ KUMAR	PARABOLIC DENSE CLOUDY FUZZY MODEL WITH DEMAND DEPENDENT PRODUCTION RATE IN AN EMPRISE PRODUCTION PROCESS.	0.76
DR. PUSHPENDRA SINGH	LWRNPIP: DESIGN OF A LIGHT WEIGHT RESTRICTIVE NON-FUNGIBLE TOKEN BASED ON PRACTICALLY UNCLONABLE FUNCTIONS VIA IMAGE SIGNATURE PATTERNS	0.55
DR. CHIRANJIT DUTTA	DEEP LEARNING MODIFIED REINFORCEMENT LEARNING WITH VIRTUAL MACHINE CONSOLIDATION FOR ENERGY-EFFICIENT RESOURCE ALLOCATION IN CLOUD COMPUTING	0.8
DR. CHIRANJIT DUTTA	MACHINE LEARNING-BASED ROAD HAZARD DETECTION FOR IMPROVED DRIVING ASSISTANCE AND SAFETY	0.49
DR. ALOK PRATAP SINGH	MODULATION OF ANTI-INFLAMMATORY ACTIVITY VIA DICLOFENAC SODIUM-BASED NANOSTRUCTURED-LIPID CARRIERS: PHYSICAL CHARACTERIZATION AND IN VIVO ASSESSMENT	1.7
MR. NITISH	MODULATION OF ANTI-INFLAMMATORY ACTIVITY VIA DICLOFENAC SODIUM-BASED NANOSTRUCTURED-LIPID CARRIERS: PHYSICAL CHARACTERIZATION AND IN VIVO ASSESSMENT	1.7
DR. PRIYA DHIMAN	MODULATION OF ANTI-INFLAMMATORY ACTIVITY VIA DICLOFENAC SODIUM-BASED NANOSTRUCTURED-LIPID CARRIERS: PHYSICAL CHARACTERIZATION AND IN VIVO ASSESSMENT	1.7

PUBLICATION (JULY 2025)

NAME	TITLE	IF
DR. SONAKSHI ANTAL	MODULATION OF ANTI-INFLAMMATORY ACTIVITY VIA DICLOFENAC SODIUM-BASED NANOSTRUCTURED-LIPID CARRIERS: PHYSICAL CHARACTERIZATION AND IN VIVO ASSESSMENT	1.7
DR. SONAKSHI ANTAL	ADVANCES IN THERANOSTIC NANOMEDICINE: INTEGRATING DIAGNOSIS AND THERAPY FOR PRECISION CANCER TREATMENT	2.1
DR JAYENDRA KUMAR	MODULATION OF ANTI-INFLAMMATORY ACTIVITY VIA DICLOFENAC SODIUM-BASED NANOSTRUCTURED-LIPID CARRIERS: PHYSICAL CHARACTERIZATION AND IN VIVO ASSESSMENT	1.7
DR JAYENDRA KUMAR	DEVELOPMENT AND IN-VITRO EVALUATION OF A POLYMER-BASED TOPICAL FILM-FORMING SPRAY INCORPORATING OCTENIDINE DIHYDROCHLORIDE AND BENZALKONIUM CHLORIDE FOR ADVANCED ANTISEPTIC APPLICATIONS	0.7
A. GEETHA BHAVANI	ANN-BASED PREDICTION OF CORROSION BEHAVIOR OF ALLOY 600: IMPLICATIONS FOR AN ANTI-CORROSION COATING DESIGN IN PWSCC ENVIRONMENTS	3.4
DR. PALLAVI JAIN	2-((2-MERCAPTOBENZYLIDENE)AMINO) PYRIDIN-3-0L SCHROFF BASE DERIVED MN(II), CO(II), NI(II) AND CU(II) METAL CHELATES: SYNTHESIS, ANTIMICROBIAL, ANTIOXIDENT, THERMO-KINETICS, MOLECULAR DOCKING AND IN SILICO ADMET STUDIES	2.3
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DR. RUPAK SHARMA	REVEALING THE RELIABILITY OF AMAZON PRODUCTS VIA INNOVATIVE FAKE REVIEW DETECTION USING MACHINE LEARNING	0.4
ABHILASHA SINGH	MOOCFLIX: A MICROSERVICES-BASED ARCHITECTURE FOR SCALABLE AND EFFICIENT MOOC STREAMING PLATFORMS	0.4
DR. PRIYANKA AGARWAL	MODELING SOFTWARE RELIABILITY WITH POWER LAW TESTING EFFORT FUNCTION UNDER OPERATIONAL UNCERTAIN ENVIRONMENT	1.8

PUBLICATION (AUGUST 2025)

NAME	TITLE	IF
DR. R.P. MAHAPATRA	ENHANCE LUNG DISEASE DETECTION THROUGH TRANSFER LEARNING TECHNIQUES	0.4
MR. PARBHAT GUPTA	DESIGNING SELF-ORGANIZED WIRELESS SENSOR NETWORKS USING DEEP NEURAL NETWORKS	0.4
MR. NITISH KUMAR	PROBIOTICS: AN ADJUVANT TREATMENT STRATEGY FOR CHRONIC RESPIRATORY DISEASES	3.1
MS. GURPREET KOUR KHALSA	ARTIFICIAL INTELLIGENCE-DRIVEN CLOUD-NATIVE BIG DATA ANALYTICS FOR AGILE DECISION-MAKING IN DYNAMIC ENVIRONMENT	0.4
MR. DEEPAK TOMAR	NANO-COCRYSTALS AS NANOTECHNOLOGY-BASED APPROACH TO MODULATE SOLUBILITY AND BIOAVAILABILITY OF POORLY SOLUBLE DRUGS	3.3
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DR. D. FRANKLIN VINOD	BIG DATA DRIVEN MULTIMODAL CLASSIFICATION USING CLIPPED RBMS AND CROSS MODALITY ATTENTION IN MMDBN	0.4
DR. UMA MEENA	DEEP LEARNING BASED SECURE ROUTING IN WSN USING HYPER LEDGER FABRIC BLOCK CHAIN MODEL	1.5
DR. UMA MEENA	A COMPARATIVE REVIEW OF LAND USE AND LAND COVER (LULC) CLASSIFICATION IN DELHI NCR USING SATELLITE IMAGERY	0.4
DR. DHOWMYA BHATT	INVESTIGATION OF SPECIFIC WEAR RATE AND WEAR MECHANISM IN STIR CAST AL5052 COMPOSITES WITH TIB_2 AND ZRO_2 REINFORCEMENTS	0.7
DR. PIYUSH GUPTA	A COMPREHENSIVE REVIEW OF NANO CLAY: FROM DEVELOPMENT AND APPLICATIONS TO RESEARCH OPPORTUNITIES	2.3
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PUBLICATION (AUGUST 2025)

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DR. AJAY SINGH YADAV	AN OPTIMIZED SINGLE WAREHOUSE INVENTORY MODEL FOR DECAYING GOODS WITH TIME AND DEPENDENT DEMAND AND TIME DEPENDENT HOLDING COST USING THE ABC ALGORITHM	0.4
DR. BHAWNA	EXPLORING THE POTENTIAL OF TI3+ IN TIO2 THROUGH EXPERIMENTAL ANALYSIS AND RESPONSE SURFACE METHODOLOGY: PHOTOCATALYTIC DEGRADATION OF PHARMACEUTICALS	4.8
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DR. JAYENDRA KUMAR	NEUROPROCTECTIVE ROLE OF ARTEMISIA VULGARIS AGAINST ALZHEIMER'S LIKE CHANGES THROUGH INFLAMMATORY AND OXIDATIVE MARKERS MODULATION	1.2
DR. MINAKSHI SANADHYA	SMART CONTROL OF WIND-FED BLDC MOTOR DRIVES THROUGH IOT AND SIX STEP INVERTOR TECHNIQUES	0.4
DR KANIKA GARG	A NOVEL MACHINE LEARNING FRAMEWORK: CROSS TRANSFORMER-BASED OPTIMIZATION MODEL FOR THE DETECTION AND CLASSIFICATION OF BRAIN TUMOR USING CLINICAL DECISION ANALYSIS	2.7
DR. KANIKA GARG	TRANS DENSE 121- UNET: A MULTI- SCALE TRANSFORMER- BASED APPROACH	2.7
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DR. RUPAK SHARMA	REVEALING THE RELIABILITY OF AMAZON PRODUCTS VIA INNOVATIVE FAKE REVIEW DETECTION USING MACHINE LEARNING	0.4
ABHILASHA SINGH	MOOCFLIX: A MICROSERVICES-BASED ARCHITECTURE FOR SCALABLE AND EFFICIENT MOOC STREAMING PLATFORMS	0.4
DR. PRIYANKA AGARWAL	MODELING SOFTWARE RELIABILITY WITH POWER LAW TESTING EFFORT FUNCTION UNDER OPERATIONAL UNCERTAIN ENVIRONMENT	1.8
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PUBLICATION (AUGUST-2025)

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DR. NIDHI PANDEY	A CONVOLUTIONAL NETWORK APPROACH FOR BREAST TUMOR CLASSIFICATION USING ULTRASOUND IMAGES	0.4
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DR. OSHIN SHARMA	GENERATING LEGAL ARGUMENTS USING LLM AND VECTOR DATABASE TO SUPPORT PRECEDENTS	0.4
DR. ABHISHEK SINGHAL	COMPARATIVE ANALYSIS OF GENDER-WISE DISEASE DETECTION BASED ON VOICE SIGNAL ANALYSIS	0.4
DR. MAHESH KUMAR GUPTA	2-((2-MERCAPTOBENZYLIDENE)AMINO)PYRIDIN-3-OL SCHIFF BASE DERIVED MN(II), CO(II), NI(II), AND CU(II) METAL CHELATES: SYNTHESIS, ANTIMICROBIAL, ANTIOXIDANT, THERMO-KINETICS, MOLECULAR DOCKING, AND IN SILICO ADMET STUDIES	2.2
DR. A.GEETHA BHAVANI	MECHANISTIC BEHAVIOR OF BASICITY OF BIMETALLIC NI/ZRO2 MIXED OXIDES FOR STABLE OXYTHERMAL REFORMING OF CH4 WITH CO2	0.4
MR. NABIN SHARMA	VARIABILITY IN THE CONCENTRATION OF PARTICULATE MATTER IN DELHI-NCR: ANALYSIS AND PREDICTION USING MACINE LEARNING ALGORITHM	3.7

PUBLICATION (SEPTEMBER 2025)

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DR. OMPAL SINGH	A PROBABILISTIC INVENTORY MODEL FOR PERISHABLE PRODUCTS FUZZY ENVIRONMENT USING DIFFERENT DEFUZZIFICATION METHODS	0.4
DR. PALLAVI JAIN	ADVANCED MOF-BASED MATERIALS FOR ADSORPTIVE AND PHOTOCATALYTIC REMOVAL OF EMERGING ORGANIC POLLUTANTS FROM WASTEWATER	6.9
DR. PALLAVI JAIN	DRY REFORMING OF METHANE OVER NICKEL-BASED CATALYST ON MG-STABILIZED ZIRCONIA SUPPORT: A PATHWAY TO SUSTAINABLE SYNGAS PRODUCTION	2
DR. PALLAVI JAIN	RECENT ADVANCES IN COF-BASED STRATEGIES FOR DYE POLLUTION REMEDIATION: MATERIALS DESIGN, MECHANISTIC INSIGHT, AND FUTURE OUTLOOK	9
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DR. PRASHANT KUMAR	INNOVATIVE NANOSTRUCTURED LIPID CARRIER GEL FOR ENHANCED TOPICAL DELIVERY OF ROFLUMILAST IN PSORIASIS MANAGEMENT	0.35
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DR MUDIT PRAKASH SRIVASTAVA	EFFECT OF CU DOPING ON ZNO/ZNS COMPOSITE THIN FILM FOR VISIBLE LIGHT PHOTODETECTION	2.8
DR. SAPTARSHI GUPTA	DEEP CNN AND TWIN SUPPORT VECTOR MACHINE BASED MODEL FOR DETECTING POTHOLES IN ROAD NETWORK	0.4

PUBLICATION (SEPTEMBER-2025)

NAME	TITLE	IF
DR. RUPAK SHARMA	A DECENTRALIZED BLOCKCHAIN BASED PRIVACY PRESERVATION SCHEME FOR HEALTHCARE DATA SECURITY ENHANCEMENT IN CLOUD	4.1
DR. MAHESH KUMAR GUPTA	NUMERICAL AND EXPERIMENTAL HEAT TRANSFER ANALYSIS OF TWO-PHASE FLOW THROUGH MICROCHANNEL FOR DEVELOPMENT OF HEAT DISSIPATION CORRELATION	4.2
DR. MAHESH KUMAR GUPTA	A COMPREHENSIVE INVESTIGATION OF COMPUTATIONAL ANALYSIS ON FLOW CHARACTERISTICS, STABILITY AND SAFE LIMITS OF A SUPERCRITICAL NATURAL CIRCULATION LOOP FOR DIFFERENT HEATING POWER PROFILES NUCLEAR ENGINEERING AND TECHNOLOGY	2.6
DR. SACHIN SIROHI	MICROSTRUCTURE ANOMALY DUE TO THE HEAT FROM THE LASER WELDING PROCESS AND TIS EFFECT ON THE MECHANICAL BEHAVIOR OF THE DISSIMILAR WELDED JOINT BETWEEN P92 STEEL AND INCONEL 625 FOR AUSC BOILER APPLICATIONS	3.1
DR. SACHIN SIROHI	COMPARATIVE EVALUATION OF NI-BASED ELECTRODES FOR SHIELDED METAL ARC DISSIMILAR WELDING OF P91 AND AISI 310 STEELS: MICROSTRUCTURE AND MECHANICAL PERFORMANCE	2
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DR. J. K. KASTHURI BHA	STUDY OF OHMIC CONTACT AT TI/ZNO INTERFACE BY USING ELECTRICAL CHARACTERISTICS AND KPFM ANALYSIS	4.9
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DR. DHOWMYA BHATT	A REVIEW ON SUSTAINABILITY, RELIABILITY, AND SAFETY OF MICROCHANNEL HEAT SINKS IN ELECTRONIC COOLING APPLICATIONS	**0.4**
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DR. SARVENDRA KUMAR	FINITE SIZE EFFECT ON STRUCTURAL, MORPHOLOGICAL, MAGNETIC, AND MAGNETO OPTICAL PROPERTIES OF FE3O4 BASED NANOFLUIDS.	2.9
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Thank you for your perseverance and scholarly excellence. We look forward to celebrating many more of your achievements in the future.

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PATENTS



JULY-DECEMBER 2025

PATENTS

We are proud to celebrate the remarkable accomplishments of our esteemed faculty members for their recent success in granting the patents. Your dedication to innovative research, relentless pursuit of knowledge, and commitment to solving real-world challenges through technology and invention have brought great prestige to our institution.

NAME	TITLE	DEPARTMENT
DR. MADHURIMA SRIVASTAVA	THE EFFECTIVENESS OF PEER LEARNING STRATEGIES IN HIGHER EDUCATION	EFL
MR. DEEPAK TOMAR	MECHANICAL STIRRER AND SONICATOR ASSEMBLY	PHARMACY
MR. DEEPAK TOMAR	NOVEL PHARMACOGENOMIC BIOMARKERS AND METHODS FOR PERSONALIZED DRUG RESPONSE PREDICTION	PHARMACY
MS. LOVELY CHAURASIA	NOVEL PHARMACOGENOMIC BIOMARKERS AND METHODS FOR PERSONALIZED DRUG RESPONSE PREDICTION	PHARMACY
DR. REENA GROVER	DENTAL CHAIR WITH VITAL SIGN MONITOR	MATHEMATICS
DR. RUPAK SHARMA	AI BASED DEVICE FOR ADVANCED THREAT PROTECTION AND CYBER SECURITY MONITORING	MCA
DR. OMPAL SINGH	INTELLIGENT SYSTEMS FOR CREDIT CARD FRAUD PREVENTION USING DATA MINING AND MACHINE LEARNING	MATHEMATICS
DR. SAURABH SHARMA	AI BASED GLUCOSE RESPONSIVE INSULIN DELIVERY DEVICE FOR DIABETES	CSE
DR. ABHISHEK SINGHAL	COMPUTING DEVICE FOR DETECTION AND CLASSIFICATION OF FACIAL MICRO-EXPRESSIONS	ECE
DR. ABHISHEK SINGHAL	CLOUD COMPUTING DEVICE FOR ENHANCED NETWORK SECURITY	ECE
DR. ABHISHEK SINGHAL	COMPUTING DEVICE FOR NETWORK SECURITY WITH ADAPTIVE THREAT DETECTION USING MACHINE LEARNING	ECE
DR. ABHISHEK SINGHAL	SOLAR POWERED HYBRID-ELECTRIC TRAFFIC SIGNAL APPARATUS AND COMPUTING DEVICE FOR SPEED MONITORING	ECE

PATENTS

NAME	TITLE	DEPARTMENT
DR. ABHISHEK SINGHAL	COMPUTING DEVICE FOR CURRENCY DETECTION FOR VISUALLY IMPAIRED PERSONS	ECE
MR. AMIT	CLOUD COMPUTING DEVICE FOR ENHANCED NETWORK SECURITY	ECE
MR. AMIT	COMPUTING DEVICE FOR NETWORK SECURITY WITH ADAPTIVE THREAT DETECTION USING MACHINE LEARNING	ECE
MR. AMIT	COMPUTING DEVICE FOR CURRENCY DETECTION FOR VISUALLY IMPAIRED PERSONS	ECE
MR. AMIT	SOLAR POWERED HYBRID-ELECTRIC TRAFFIC SIGNAL APPARATUS AND COMPUTING DEVICE FOR SPEED MONITORING	ECE
MR. AMIT	COMPUTING DEVICE FOR DETECTION AND CLASSIFICATION OF FACIAL MICRO-EXPRESSIONS	ECE
DR. M VINOTHKUMAR	AI POWERED AUTONOMOUS LIBRARY ROBOT	ECE
DR. M VINOTHKUMAR	SOLAR POWERED MOBILE LIBRARY BUS	ECE
DR. M VINOTHKUMAR	AI POWERED AUTONOMOUS ROBOTIC LIBRARY ASSISTANT	ECE
DR. M VINOTHKUMAR	AI ENABLED SELF-SERVICE LIBRARY KIOSK	ECE
DR. M VINOTHKUMAR	AI POWERED INTERACTIVE LIBRARY SERVICE ROBOT	ECE
DR. M VINOTHKUMAR	COMPUTING DEVICE FOR CURRENCY DETECTION FOR VISUALLY IMPAIRED PERSONS	ECE
DR. M VINOTHKUMAR	COMPUTING DEVICE FOR NETWORK SECURITY WITH ADAPTIVE THREAT DETECTION USING MACHINE LEARNING	ECE
DR. M VINOTHKUMAR	COMPUTING DEVICE FOR DETECTION AND CLASSIFICATION OF FACIAL MICRO-EXPRESSIONS	ECE

NAME	TITLE	DEPARTMENT
DR. BHAVANI VISWANATHAN	SOLAR POWERED MOBILE LIBRARY BUS	CENTRAL LIBRARY
DR. BHAVANI VISWANATHAN	AI POWERED AUTONOMOUS ROBOTIC LIBRARY ASSISTANT	CENTRAL LIBRARY
DR. BHAVANI VISWANATHAN	AI ENABLED SELF-SERVICE LIBRARY KIOSK	CENTRAL LIBRARY
DR. BHAVANI VISWANATHAN	AI POWERED INTERACTIVE LIBRARY SERVICE ROBOT	CENTRAL LIBRARY
MS. GHAZALA ANSARI	AI BASED HIGH WAY ROAD QUALITY CHECKING DEVICE	ECE
DR. SAURABH SHARMA	AI ENABLED NONINVASIVE GLUCOSE MONITORING DEVICE FOR DIABETES MELLITUS	CSE
DR. SAURABH SHARMA	IOT BASED NETWORK SECURITY DETECTION DEVICE	CSE
DR. SAURABH SHARMA	AI BASED NETWORK SECURITY DETECTING DEVICE	CSE
DR. SAURABH SHARMA	AI BASED INTRUSION DETECTION DEVICE	CSE
DR. ADITYA AGARWAL	SOLAR POWERED WIRELESS SENSOR NODE FOR DATA COMMUNICATION	ECE
DR. PRIYANKA AGARWAL	AI BASED MATHEMATICAL EQUATION ANALYSING DEVICE	MATHEMATICS
DR. SARVENDRA KUMAR	PHOTOCATALYTIC LABORATORY APPARATUS FOR EMPLOYING TIO_2 NANOPARTICLES DERIVED FROM SAFFRON EXTRACTS	PHYSICS
MR. AMIT	OMNI DIRECTIONAL ANTENNA SYSTEM FOR MICROWAVE ENHANCED IOT CONNECTIVITY AND METHOD THEREOF	ECE
DR. ADITYA AGARWAL	DIGITAL ASSISTANCE DEVICE FOR ENTREPRENEURS	ECE
MS. GHAZALA ANSARI	FACE RECOGNITION DEVICE USING DEEP LEARNING	ECE

NAME	TITLE	DEPARTMENT
Dr. BHAVANI VISWANATHAN	AI POWERED AUTONOMOUS LIBRARY ROBOT	Central Library
DR. M VINOTHKUMAR	CLOUD COMPUTING DEVICE FOR ENHANCED NETWORK SECURITY	ECE
DR. M VINOTHKUMAR	SOLAR POWERED HYBRID-ELECTRIC TRAFFIC SIGNAL APPARATUS AND COMPUTING DEVICE FOR SPEED MONITORING	ECE

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MEMORANDUM OF UNDERSTANDING (MOU)

JULY-DECEMBER 2025



Memorandum of Understanding (MOU)

We thank you for collaborating partners and are thrilled to announce and celebrate the successful signing of a Memorandum of Understanding (MoU) between SRMIST Delhi NCR Campus and following industries played significant milestone to start a new chapter of collaboration, innovation, and shared growth.

A heartfelt congratulations to our dedicated faculty members whose hard work, vision, and commitment made this achievement possible. Your efforts continue to strengthen our academic and research ties globally, opening new doors for joint projects, student exchange programs, and groundbreaking discoveries.

ORGANIZATION WITH WHICH MOU IS SIGNED	SCOPE AND PURPOSE OF MOU	SIGNING DATE	DURATION
SCHOLARS MERIT ONLINE PVT LTD	OFFER INTERNSHIP PROGRAM TO STUDENTS OF SRMIST, DELHI NCR CAMPUS GHAZIABAD.	21/02/2025	3 YEARS
RELIGARE BROKING LIMITED	OFFER INTERNSHIP PROGRAM TO STUDENTS OF SRMIST, DELHI NCR CAMPUS GHAZIABAD.	1/22/2025 IN PROCESS	1 YEAR
SMART HOSPITAL, GHAZIABAD	OFFER INTERNSHIP PROGRAM TO STUDENTS OF SRMIST, DELHI NCR CAMPUS GHAZIABAD.	12/04/2025	5 YEARS
KAILASH MEDICARE & RESEARCH CENTRE	OFFER INTERNSHIP PROGRAM TO STUDENTS OF SRMIST, DELHI NCR CAMPUS GHAZIABAD.	12/04/2025	5 YEARS
PLUS FORMULATIONS PVT LTD	OFFER INTERNSHIP PROGRAM TO STUDENTS OF SRMIST, DELHI NCR CAMPUS GHAZIABAD.	11/04/2025	5 YEARS

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INCENTIVES

JULY-DECEMBER 2025

In recognition of your achievements and unwavering dedication. Your commitment and hard work have set a standard of excellence, and we are honored to celebrate your accomplishments.

INCENTIVES-2025

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
	DR. KAMAKSHI BIOLOGY
	DR. PIYUSH GUPTA CHEMISTRY
	DR. GARIMA PANDEY CHEMISTRY
	DR.PALLAVI JAIN CHEMISTRY
	DR. RAVI TOMAR CHEMISTRY
	DR. BHAWNA CHEMISTRY

FACULTY	NAME
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	DR. JAYENDRA KUMAR PHARMACY
	DR. MAHESH KUMAR GUPTA ME
	DR. RUPESH CHALISGAONKAR ME
	DR. VIKAS GOYAT ME
	DR. SACHIN SIROHI ME

FACULTY	NAME
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	DR SANTOSH KUMAR RAI ME
	DR. RAJEEV SHARMA MCA
	DR. SATYA SAI SRIKANT ECE
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	DR. AJAY SINGH YADAV MATHEMATICS
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	DR. PANKAJ VARSHNEY PHYSICS
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	MR. SARVENDRA KUMAR PHYSICS
	MR. KUWAR PRATAP SINGH CSE
	DR. ABHILASHA SINGH CSE

FACULTY	NAME
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	MS. GHAZALA ANSARI ECE
	DR. M. VINOTH KUMAR ECE
	DR. SAPTARSHI GUPTA ECE
	DR. ADITYA AGARWAL ECE
	DR. ANKIT SONTHALIA AE
	DR. D. FRANKLIN VINOD CSE
	DR. ATULYA GUPTA CSE

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	DR. JITENDRA KUMAR CSE
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	DR. AMIT KUKKER CSE
	DR. PUSHPENDRA SINGH CSE
	DR. DINEESH KUMAR CSE
	MR.PARBHAT GUPTA CSE

FACULTY	NAME
	DR. AVNEESH VASHISTHA CSE
	DR. NIRANJAN LAL CSE

FACULTY	NAME
	DR. OSHIN SHARMA CSE

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.

Indian Knowledge System - Traditional Research

'न हि ज्ञानेन सदृशं पवित्रम् इह विद्यते'

Source: Bhagavad Gītā (4.38)

Translation: ***"There is nothing as purifying as knowledge."***

One of the oldest and most extensive knowledge traditions in the world is found in India, and it encompasses philosophy, science, the arts, governance, environmental management, health, and spirituality. The Vedas and Upanishads, classical texts like Charaka Samhita, Arthashastra, Sushruta Samhita, Vaastu Shastra, and the writings of mathematicians like Aryabhata and Bhaskara are all part of this collective legacy, which is frequently referred to as the Indian Knowledge System (IKS). Integrating the Indian Knowledge System into current research not only enhances scholarship but also fosters innovation that is context-sensitive, sustainable, and holistic in the current period of rapid scientific advancement.

Contributions of IKS to Modern Research

1. **Medicine and Health Sciences**

Systems such as Ayurveda and Yoga have inspired modern research in:

- lifestyle disorders
- holistic wellness
- mind–body medicine
- herbal pharmacology and nutraceuticals

Research on yoga and meditation now explores neuroplasticity, stress reduction, and psychosomatic balance.

2. Mathematics and Astronomy

Indian knowledge has deeply influenced global science:

- concept of zero and decimal system
- early trigonometric functions
- sophisticated astronomical observations

These foundations support present-day research in algebra, computational sciences, and celestial mechanics.

3. Agriculture and Environmental Sciences

Traditional Indian practices highlight sustainability:

- organic farming
- mixed cropping
- water harvesting (baolis, stepwells, tanks)
- sacred groves and biodiversity conservation

These are increasingly relevant in research areas such as climate resilience, soil health, and sustainable resource management.

4. **Social Sciences and Philosophy**

Indian epistemology contributes to:

- ethics in research
- theories of consciousness
- models of education and social harmony

Concepts from texts such as the Upanishads and Buddhist traditions offer insights into mind, cognition, and human behavior, now studied in psychology and cognitive science.

Why Integrate IKS into Contemporary Research?

1. **Decolonization of knowledge**

It challenges the notion that valid knowledge is only Western, restoring balance to global scholarship.

2. **Context-relevant solutions**

Indigenous knowledge is suited to Indian ecology, society, and cultural realities.

3. **Sustainability and inclusiveness**

IKS promotes harmony between humans and nature and values community wisdom.

4. **Innovation rooted in tradition**

Many modern inventions have emerged from re-examining traditional practices.

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