

Research Insights @ RUAS

Office of Research and Innovation



February 2026
Issue 10

PATENTS - 2026	
JAN - FEB	
Filed	4
Published	-
Granted	4
*Courtesy: OMS Patents Database	

PUBLICATIONS - 2026	
JAN - FEB	
Scopus	70
Total	110
Google Scholar	79
Citations	50675
h-index	73
* Researgence 2.0 reports	

EXTRA-MURAL GRANTS APPLIED - 2026		
Faculty	Jan	In Lakhs
RINER	-	-
FDS	-	-
FLAHS	3	50.00
FNS	-	-
RCPT	-	-
ORI	-	-
RMC	-	-
ALC	-	-
FPH	5	53.62
FHMCT	-	-
SSS	-	-
FET	3	70.00
FMC	1	0.01

ACADEMIC EVENTS

Faculty of Management & Commerce, RUAS successfully offered two MOOCs on the SWAYAM platform (IIMBx) in the January 2026 session. The courses—*Applied Research: From Hypothesis to Structural Equation Modeling* and *Python for Data Analytics, Machine Learning and Generative AI*—recorded 1,673 and 6,435 enrollments respectively. Curated by Dr. S. Ajitha, Dr. Chandra Sen Mazumdar, and Dr. Reshma K. J., the courses attracted strong participation from students across India and international learners, significantly enhancing RUAS's national and global academic visibility.



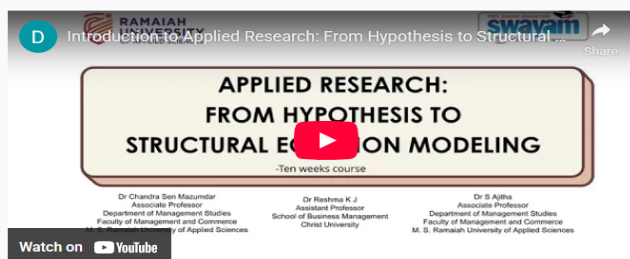
Home > Courses >

Applied Research: From Hypothesis to Structural Equation Modeling

By Dr. Chandra Sen Mazumdar, Dr. S Ajitha, Dr. Reshma K J | M S Ramaiah University of Applied Sciences,

[Go to course](#)

Learners enrolled: 1673



The Centre for AI and Social Good (CAISG), RUAS conducted a capacity-building session for Karnataka Administrative Service (KAS) Officers on 27 February 2026 in Bengaluru, organized by the Indian Institute of Public Administration (IIPA), Karnataka Regional Branch. The session was led by Dr. Rema V, Head-CAISG, and Dr. Sudarshana V. Iyengar, focusing on data-driven decision-making in public administration. With participation from 40+ KAS officers, the program explored how data analytics can support governance, improve grievance systems, and enable evidence-based policy decisions.



Dr. Latharani T. R. was conferred with the “Women Excellence in Engineering Education Award – 2026” at the International Conference on Emerging Trends in Science, Technology and Management (ICETSTM–2026) held from 14–18 February 2026. She also delivered an invited talk titled “From Generative Intelligence to Autonomous Agents: The Next AI Revolution.” This recognition highlights her contributions to engineering education and research.



ACADEMIC EVENTS



Department
of Mechanical and Manufacturing Engineering,
FET, RUAS

Invited Talks on

Sustainable Development Goals (SDGs) and the Role of Higher Education Institutions





Dr. Sundaresha
Adjunct Faculty, BITS Pilani





Mr. Ramesha, Consultant
Next Green Group Australia

Event Coordinator
Mr. Sandeep N, Asst. Professor, MME

Date : 27th February 2026
Venue : A 204, RTC Campus, Peenya
Time : 2.00PM to 5.00 PM

The Department of Mechanical and Manufacturing Engineering, RUAS organized an Invited Talk on “Sustainable Development Goals (SDGs) and the Role of Higher Education Institutions” on 27 February 2026 at the RTC Campus Seminar Hall. The session focused on creating awareness about the SDGs and their relevance within the National Board of Accreditation (NBA) framework, with participation from faculty members across various departments.



M. S. Ramaiah University of Applied Sciences (RUAS) was awarded the Silver Medal in the category “Outstanding Future-Ready Higher Education Institution” at the ET Education – TechEDU India Awards 2026. The award was presented during the TechEDU India Summit 2026, organized by The Economic Times Education, held on 26 February 2026 in Mumbai, recognizing RUAS for its commitment to innovation and technology-driven higher education.



**RAMAIAH
UNIVERSITY**
OF APPLIED SCIENCES



Organized By
Department of Computer Science and Engineering,
M.S. Ramaiah University of Applied Sciences

Guest Lecture
From SMOTE to VAEs
Sampling Strategies for Imbalanced Learning



Speaker
Dr. Asit Kumar Das
Professor, Department of Computer Science and Technology,
Indian Institute of Engineering Science and Technology

Conveners
Dr. C. Narasimha Babu
Professor and HOD, Department of Computer Science and Engineering

Dr. Jyoti A.P
Associate Professor & Head of Mathematics and Computing Program,
Department of Computer Science and Engineering

Date : 27th February 2026, 2:30pm to 3:30pm
Venue : A307, A Block, Ramaiah Technology Campus,
470-P, Peenya 4th Phase, Peenya, Bengaluru-560058

The Department of Computer Science and Engineering, RUAS organized a Guest Lecture on “From SMOTE to VAEs: Sampling Strategies for Imbalanced Learning” on 27 February 2026 at the RTC Campus. The session provided insights into advanced sampling techniques for handling imbalanced datasets in machine learning, benefiting students and faculty.

ACADEMIC EVENTS

The Department of Biotechnology, RUAS organized a conference on “One Health Innovations (OHI): Biology, Technology and Sustainable Futures” on 27 February 2026 at the RMC Auditorium, Bengaluru. The conference highlighted biotechnology-driven solutions across human, animal, plant, and environmental health, featuring experts from leading institutions and discussions on advanced biotech innovations, bioremediation, resilient plant systems, and emerging career pathways in science.



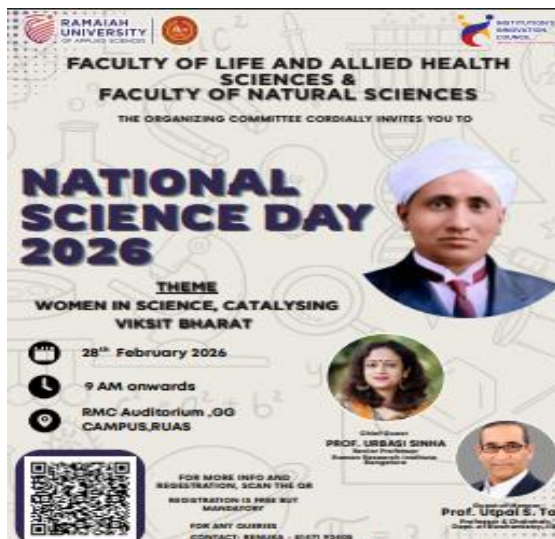
The Department of Industrial Design, Faculty of Art and Design (FAD), RUAS organized a seminar on “Advancement in Digital Manufacturing” on 26 February 2026 at the Ramaiah Technology Campus, Bengaluru. The session focused on emerging trends and innovations in digital manufacturing technologies.



The LEADS Next Gen Centre, RUAS celebrated National Leadership Day on 20 February 2026 at the RMC Council Hall, Bengaluru. The event featured distinguished speakers including Dr. Vijayalakshmi Deshmane (Padmashree Awardee 2025), Mr. Kumar Ravi (Senior Vice President, BCIC Karnataka), and Dr. Naganagouda S. J. (Hon. Secretary, NHRD Bengaluru), who shared insights on visionary leadership, social responsibility, and the role of youth in building a sustainable future.



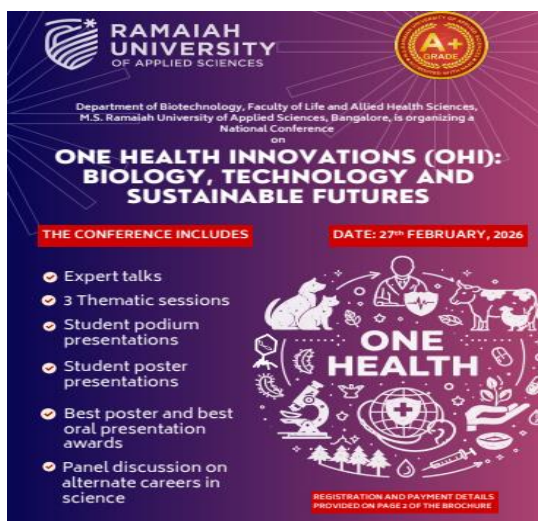
ACADEMIC EVENTS



The Faculty of Life and Allied Health Sciences and the Faculty of Natural Sciences, RUAS jointly celebrated National Science Day on 28 February 2026 at the Ramaiah Medical College Auditorium, Bengaluru. The event, themed “Women in Science: Catalysing Viksit Bharat,” featured keynote lectures, science talks, student presentations, poster displays, and awards, commemorating Sir C. V. Raman’s discovery of the Raman Effect and promoting scientific curiosity and innovation.



M. S. Ramaiah University of Applied Sciences (RUAS) signed a Memorandum of Understanding (MoU) with Western Sydney University (WSU), Australia on 13 February 2026. The collaboration aims to promote joint academic programmes, curriculum development, short-term training courses, student and staff mobility, and collaborative research initiatives. The partnership was facilitated through the efforts of Dr. Pushpanjali K and Dr. Kavita Prasad from the Faculty of Dental Sciences, RUAS.



The Department of Biotechnology, FLAHS, M. S. Ramaiah University of Applied Sciences organized a National Conference on “One Health Innovations (OHI): Biology, Technology and Sustainable Futures” on 27 February 2026 at the RMC Auditorium, Ramaiah Medical College, Bengaluru. The conference highlighted biotechnology-driven solutions across human, animal, plant, and environmental health, featuring experts from leading institutions and discussions on advanced biotech innovations and emerging career pathways in science.

ACADEMIC EVENTS

A workshop on “Design Thinking – Critical Thinking & Innovation Design” was conducted at Ramaiah Technology Campus, RUAS on 14 February 2026 in association with IIC and IEEE. The session was delivered by Mr. Sujith Vijayan, Deputy Manager – New Product Innovation, BigTec Pvt. Ltd., Bengaluru.



RAMAIAH UNIVERSITY
OF APPLIED SCIENCES

DESIGN THINKING JOURNEY – II
Workshop on
Critical Thinking & Innovation Design

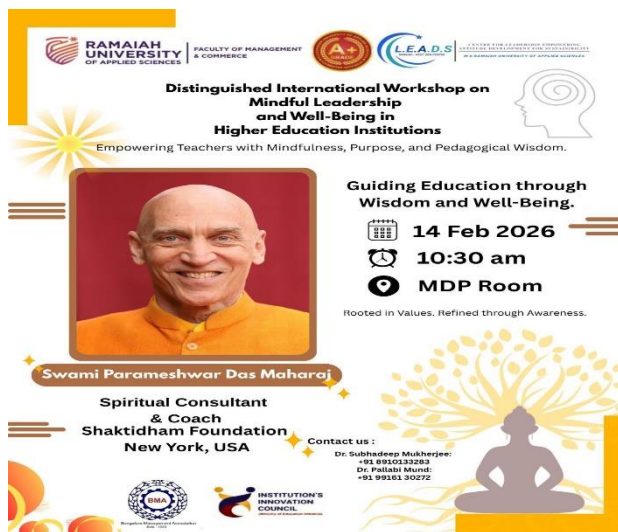
RESOURCE PERSON:
Mr. Sujith Vijayan
Deputy Manager - New Product Innovation,
BigTec Private Limited, Bengaluru

Date : 14th February 2026
Time : 11:00AM – 01:00PM
Venue : A-206, Ramaiah Technology Campus, RUAS

Contact:
Dr. Shreyanka Subbarayappa
Assistant Professor in ECE Dept.
Email ID: shreyanka.ec.eit@mrmas.ac.in

Scan Here for online registration

The LEADS Next Gen Centre, in association with the Faculty of Management and Commerce (FMC), RUAS, organized a Distinguished International Workshop on “Mindful Leadership and Well-Being in Higher Education Institutions” on 14 February 2026. The session was delivered by Swami Parameshwar Das Maharaj, Spiritual Consultant & Coach, Shaktidham Foundation, New York, USA, focusing on mindfulness-based leadership practices for educators in higher education.



RAMAIAH UNIVERSITY
OF APPLIED SCIENCES

**Distinguished International Workshop on
Mindful Leadership
and Well-Being in
Higher Education Institutions**
Empowering Teachers with Mindfulness, Purpose, and Pedagogical Wisdom.

**Guiding Education through
Wisdom and Well-Being.**

14 Feb 2026
10:30 am
MDP Room

Swami Parameshwar Das Maharaj
Spiritual Consultant
& Coach
Shaktidham Foundation
New York, USA

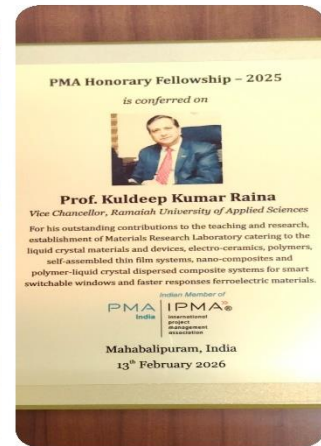
Contact us :
Dr. Subhadra Mukherjee:
+91 8950332283
Dr. Prabha Murli:
+91 99161 30272

A two-day workshop on “Fashion Choreography” was conducted on 10–11 February 2026 by the Department of Fashion Design, Faculty of Art and Design, RUAS. The session was led by fashion choreographers from Athul Academy, A.S. Dream Studio. Students were trained in model walking styles, posture, expressions, and stage presence to effectively showcase garments. The workshop also emphasized teamwork between choreographers, designers, and models, helping students enhance their performance and presentation skills for fashion shows.



FACULTY / STUDENT ACHEIVEMENTS

Prof. Kuldeep Kumar Raina, Vice Chancellor, RUAS, has been conferred the Project Management Association (PMA) Honorary Fellowship Award – 2025 at Mahabalipuram on 13 February 2026. The prestigious recognition acknowledges his outstanding contributions to teaching, research, and academic leadership, particularly in the fields of liquid crystal materials, electro-ceramics, polymers, nano-composites, and smart material systems, bringing pride and distinction to the university.



Mr. Kaustub C. Naik, a Product Design student (B.Des 2025) from RUAS, secured 3rd Place in Spot Painting at the 39th AIU Inter-University South-West Zone Youth Festival (Yuvotsava 2026) held at JSS Academy of Higher Education & Research, Mysuru from 9–13 February 2026. This achievement highlights the student's creative excellence and the strong mentorship provided by the faculty.



The Faculty of Management and Commerce, RUAS celebrated National Management Day 2026 on 23 February 2026 at Dwaraka Auditorium, Bengaluru, centered on the theme "Quantum Management." The celebration was followed by the Management & Commerce Fest – THE OFFICE Season 4 (23–24 February 2026), an intra and intercollegiate fest featuring 12 events across domains such as Management, HR, Marketing, Finance, Analytics, and Entrepreneurship, with cash prizes worth ₹70,000. The event was graced by Prof. Kalyan Sinha (JNCASR) and Mr. Venkat K. Narayan (Chairman & Founder, KVN Group) as Chief Guests.



FACULTY / STUDENT ACHEIVEMENTS

The Social Science Research Collective organized a one-day FDP on “Qualitative Research Methods and Applications” on 28 February 2026. The session was conducted by Dr. Anil Behal, an internationally experienced scholar-practitioner in qualitative research. The interactive workshop provided insights into phenomenology, grounded theory, narrative research, participatory action research, thematic analysis, and designing rigorous qualitative studies, benefiting faculty members and doctoral scholars engaged in research and supervision.



The Faculty of Management and Commerce (FMC), RUAS organized a Panel Discussion on “Decoding Union Budget 2026–27” on 12 February 2026 at the MDP Room, FMC. The session provided an in-depth analysis of the Union Budget and its implications for industry, finance, and the broader economy, offering valuable insights for students and participants.



Safer Internet Day 2026 was observed at Ramaiah Technology Campus, RUAS on 10 February 2026 under the theme “*Smart Tech, Safe Choices – Exploring the Safe and Responsible Use of AI Innovations.*” The event aimed to promote safe and responsible internet and AI usage, raise awareness on cyber hygiene, and educate participants about cybersecurity threats and preventive measures.



An ICSSR, Government of India project event has been sanctioned to the Faculty of Management and Commerce (FMC), RUAS under the special call on “*GST Reforms and their Socio-Economic Impact.*” The initiative is led by Prof. Jitendra Kumar, Dr. Subhadeep Mukherjee, Dr. Kavitha Karanam, Dr. Navajit Bora, Dr. Pallabi Mund, and Ms. Usha JC, with appreciation from Dr. K. M. Sharath Kumar, Dean, FMC.

FACULTY / STUDENT ACHEIVEMENTS

1. Dr. M. Mohamed Shabi participated in the HEOR-3 session on “Patient Perspective Cost Modeling” held on 1 February 2026, conducted by CliMed in collaboration with Dual Sphere Consulting. The session provided key insights into patient-borne costs, modeling approaches, data sources and best practices for applying patient-centered cost data in health economic evaluations, strengthening participants’ understanding of practical and robust cost-modeling methods.
2. Dr. M. Mohamed Shabi participated in the IAIO Expert Insights academic session on “Lung Cancer” held on 4 February 2026, organized by the International Association for Integrated Oncology (IAIO). The virtual session offered evidence-based discussions on current advances in lung cancer, including early detection, diagnostic innovations, treatment strategies, personalized therapies and multidisciplinary management, providing valuable expert perspectives to enhance clinical understanding.
3. Dr. M. Mohamed Shabi successfully completed the scientific session titled “Major Histocompatibility Complex: The Complexities Made Simple,” held on 07 February 2026 and organized by Micro Therapeutic Research Labs Pvt. Ltd. The session provided a clear and structured understanding of MHC biology, its immunological significance and clinical relevance. Dr. Shabi’s active participation and engagement in the session contributed meaningfully to the overall academic experience, reflecting a strong commitment to advancing expertise in immunology and biomedical science.
4. Dr. M. Mohamed Shabi participated in the “Study Selection & Search Strategies Specific to HEOR Research” academic session held on 15 February 2026, organized by CliMed Research Solutions. The session offered structured insights into evidence-based study selection methods, systematic search strategies, and best practices essential for conducting high-quality Health Economics and Outcomes Research (HEOR). Dr. Shabi’s engagement in this scientific program reflects his continued commitment to advancing methodological expertise and strengthening research competencies in the HEOR domain.
5. Dr. M. Mohamed Shabi actively participated in the session “Protocol to Protection – Subject Safety in Clinical Research & Trials” conducted by Micro Therapeutic Research Labs Pvt. Ltd. on 20 February 2026. This session focused on enhancing knowledge of participant protection and safety measures in clinical research and trials. His engagement and commitment to learning contributed to the overall success of the program.

Dr. M. Mohamed Shabi successfully completed the IAIO Expert Insights ONCOMARK: Bridging Science and Practice – Masterclass on “Lung Cancer 360”, an advanced international program delivered across four integrated modules during Jan–Feb 2026. The program was organized by the International Association for Integrated Oncology (IAIO) under the leadership and academic partnership of Glenmark Pharmaceuticals. This comprehensive masterclass provided in-depth, evidence-based updates on lung cancer, covering early detection, diagnostic innovations, contemporary treatment strategies, personalized therapy approaches and multidisciplinary care pathways.



Publications • Patents • Collaborations • Grants

- Dr. Archan Mukhopadhyay published a research paper titled “*Analogies between Phase Transitions in Potential Games and Quantum Phase Transitions*” in a Q1 journal (Impact Factor: 3).
- Dr. Archan Mukhopadhyay published a research article titled “A mathematical framework for misinformation propagation in complex networks: Topology-dependent distortion and control” in the Q1 journal *Chaos* (AIP Publishing) as Senior and Corresponding Author
- Mr. Hemanth Kumar N, PhD scholar under the guidance of Dr. S. P. Sreenivas Padala, published a research article titled “A PLS-SEM based framework for enabling digital twin systems for real-time monitoring and control in construction projects” in the Q1, Scopus and WoS indexed journal *Construction Innovation* (Emerald Publishing).
- Multi-Fidelity Data Fusion for Aerodynamic Optimization at Low Reynolds Numbers – Reddy, A. A., Suresh, S., Karthikeyan, B. R. & Sivapragasam, M. (Joint work with the ECE Department, FET, focusing on neural networks for aerodynamic optimization).
- Aerodynamic Analysis of Multi-element Inverted Airfoil of Race Cars for Improved Ground Effect Performance – Umesh, S., Sriram, A. T. & Sivapragasam, M.
- Computation of Blood Flow Dynamics in a Model Cerebral Aneurysm – Aishwarya, R., Narayan, S. S., Sivapragasam, M. & Prabhu, V. M. D. (Joint work with the Department of Mathematics and Department of Radiology, Ramaiah Medical College, focusing on biofluid mechanics).
- Dr. Vimal Raj L, Faculty of Management and Commerce (FMC), has published a research paper in the *Journal of Financial Services Marketing*, an ABDC ‘B’ category journal indexed in Scopus (Q1) and Web of Science, with a Scopus CiteScore of 9.6.
- Petti S., Rao R.S., et al. published a paper on *Severity of Betel Quid Use Disorders among Adult Indian Chewers* in *Oral Diseases*, examining the impact of betel quid use on public health.
- Aishwarya B., Priyanka J., Rao R.S., et al. published *MobileXNet for Automated Oral Squamous Cell Carcinoma Risk Stratification* in *Digital Dentistry Journal*, highlighting AI-based approaches for oral cancer risk assessment.
- Mohanty S., Shivanna D.B., Rao R.S., Astekar M. published research in *Clinical and Experimental Dental Research* on predicting recurrence of sporadic odontogenic keratocyst using AI-based histopathology image analysis.
- Bharadwaj A.P., Shivanna D.B., Rao R.S., Astekar M. published a study in *Digital Dentistry Journal* on deep learning-based differential diagnosis of odontogenic keratocyst and dentigerous cyst.
- Shivanna D.B., Rao R.S., Murugan M. presented research at the IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES 2024) on AI-based diagnosis of jaw cysts using biopsy images.
- Athikary D.G., Sowmya K., Shivanna D.B., Rao R.S., Astekar M. published research in *Digital Dentistry Journal* on predicting recurrence of unicystic ameloblastoma using deep learning techniques.
- Subramanya B., Shivanna D.B., Rao R.S., et al. published a study in the *Mediterranean Journal of Rheumatology* on deep learning-based detection of autoimmune diseases.
- Shankar S.P., Chaudhari S.S., Mishra V., et al. published a paper in *Scientific Reports* on intelligent techniques for predictive analytics in Agile software development.
- Hegde P., S.P. Shankar, et al. presented research at IEEE INDICON 2025 on a deep learning-based sign language communication system with multi-language support.

Publications • Patents • Collaborations • Grants

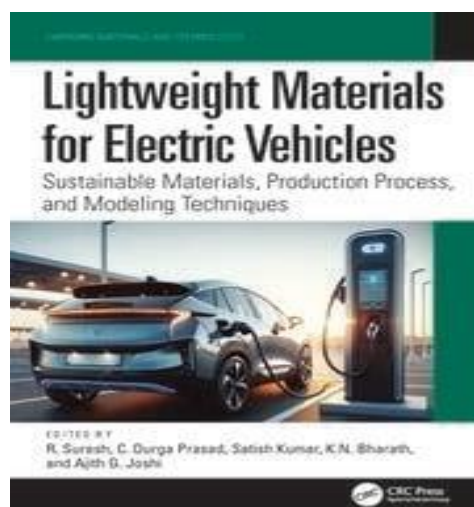
- A patent titled “Automation of Odontogenic Keratocysts and Non-Keratocysts based on Incisional Biopsy” (Application No. 202041055633) has been granted by the Indian office to M. S. Ramaiah University of Applied Sciences. The invention was developed by Divya B. S., Dr. Roopa S. Rao, Kishore S. M., Kirti Shankar M., Spoorthi P., and Sinchana G. S., contributing to advancements in automated diagnostic approaches in oral pathology.
- Dr. R. G. Shilpa and Dr. P. V. R. Murthy have been granted an Indian patent (Patent No. 580567) for their research titled “A System and Method of Risk Prioritization of Penetration Tests” (Application No. 202241003996). This achievement reflects RUAS’s commitment to innovation, quality research, and technological advancement.



Team ORI

Dr. B. S. Nanda Kumar
Dr. T. Niranjana. Prabhu
Dr. Anu Krishnan
Dr. Sowmya Hegde
Mr. Hari Prasad
Mr. Thulasiram. M. A
Mrs. Mahalakshmi

- Dr. Suresh R has published his third edited book titled “*Lightweight Materials for Electric Vehicles: Sustainable Materials, Production Process, and Modeling Techniques*” with Taylor & Francis Group, UK (ISBN: 9781003664277). The book focuses on sustainable lightweight materials, production processes, and modeling techniques for electric vehicles, contributing to advancements in sustainable mobility and materials engineering.



- KSCST Student Project Grants:** Under the KSCST 49th Series Student Project Programme, 14 student projects from RUAS have been sanctioned with a total grant of ₹82,000. The projects span multiple departments and highlight active student research and innovation across the University.

Projects by Faculty

