

Office of Research and Innovation

Annual Report 2025

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MESSAGE FROM THE LEADERSHIP TEAM

Message from the Vice Chancellor



It gives me great pleasure to present the Gnana Manthana – Annual Report 2025 of Ramaiah University of Applied Sciences. The year 2025 has been one of consolidation, transformation, and meaningful progress across all academic, research, and administrative domains of the University. Our commitment to fostering innovation-driven education continues to strengthen, empowering our students and faculty to excel in an increasingly dynamic global landscape.

This report reflects the collective dedication of our vibrant academic community—our faculty who constantly strive for excellence, our students who embody curiosity and creativity, and our administrative teams who enable seamless functioning of the University.

As we advance toward our vision of becoming a leading applied sciences university, we will continue to prioritize quality, interdisciplinary, and impactful research. I extend my heartfelt appreciation to everyone who contributed to the achievements showcased in this report and look forward to another year of academic distinction and societal impact.

Dr. Kuldeep Kumar Raina

Vice Chancellor

Message from the Registrar



I am pleased to share the Gnana Manthana – Annual Report 2025, which encapsulates a year marked by academic rigour, administrative efficiency, and institutional growth. The University continues to strengthen its processes, policies, and governance structures to ensure a learner-centric and research-enabled environment.

This year, we focused on enhancing operational systems, digitizing workflows, and streamlining administrative frameworks to support faculty and students more effectively. These initiatives have resulted in improved transparency, efficiency, and service delivery across the University.

I acknowledge the contributions of all departments, faculties, and support units for their dedication towards maintaining the high standards that RUAS is known for. This report stands as a testament to our shared commitment to excellence and continual improvement.

Mr. S. Ashok Rao

Registrar

Message from the Provost – Health & Allied Sciences



It is with great pride that I present my message for the Gnana Manthana – Annual Report 2025. The Faculty of Health and Allied Sciences continues to uphold its reputation for academic excellence, cutting-edge research, and high-quality clinical training. This year, our teams have made remarkable strides in strengthening interdisciplinary learning, promoting evidence-based practice, and expanding collaborations with healthcare institutions.

Our students, mentored by dedicated faculty and supported by robust infrastructure, continue to excel in academics, research, and professional competencies. We also witnessed substantial progress in community outreach, public health initiatives, and capacity-building programmes aimed at societal wellbeing.

I congratulate all faculty members, clinicians, researchers, and students for their exemplary contributions. As we look ahead, we remain committed to advancing healthcare education and producing professionals who will shape the future of the sector.

Dr. G. S. Venkatesh

Provost

Message from the Provost – Engineering & Allied Sciences



I am delighted to share my message for the Gnana Manthana – Annual Report 2025. The Faculty of Engineering and Allied Sciences has continued to push the boundaries of innovation, research, and application-oriented learning. The year 2025 has seen notable achievements in technology development, industry engagement, faculty research output, and student-driven innovation.

Through curriculum enhancement, strengthening of laboratories, and active partnerships with industry and research organisations, we have further enriched the learning ecosystem. Our students have demonstrated exceptional creativity and problem-solving abilities, securing accomplishments in projects, competitions, and research endeavours.

I extend my sincere appreciation to the faculty, researchers, staff, and students whose commitment has driven these accomplishments. We will continue to nurture a culture of innovation and prepare graduates who can contribute meaningfully to the technological advancements of the nation and the world.

Dr. R. V. Ranganath

Provost

TEAM- OFFICE OF RESEARCH & INNOVATION



From Left to Right: Hariprasad M P; T Niranjana Prabhu; Kishore Shenoy; Anu Krishnan; Dheepa Srinivasan; Mahalakshmi S; Sowmya Hegde; Nanda Kumar B S; Thulasi Ram

EXECUTIVE SUMMARY – RESEARCH AND INNOVATION

M. S. Ramaiah University of Applied Sciences (RUAS) has a broad and diverse academic and research ecosystem comprising 13 faculties and over 80 departments, spanning engineering, design, management, health sciences, life sciences, basic sciences, and interdisciplinary domains. This extensive structure enables collaborative and application-oriented research, addressing regional, national, and global challenges. The diversity of disciplines fosters cross-faculty synergies, promotes innovation, and supports translational research aligned with industry and societal needs.

The Office of Research & Innovation (ORI) provides centralized support across all faculties and departments by facilitating research governance, extramural funding, publications, doctoral programmes, and industry engagement. Through coordinated processes, capacity-building initiatives, and institutional platforms, ORI strengthens research quality, enhances visibility, and ensures compliance, thereby enabling faculty and researchers to translate ideas into impactful outcomes and reinforce RUAS's position as a leading university of applied sciences.

Research Thrust Areas

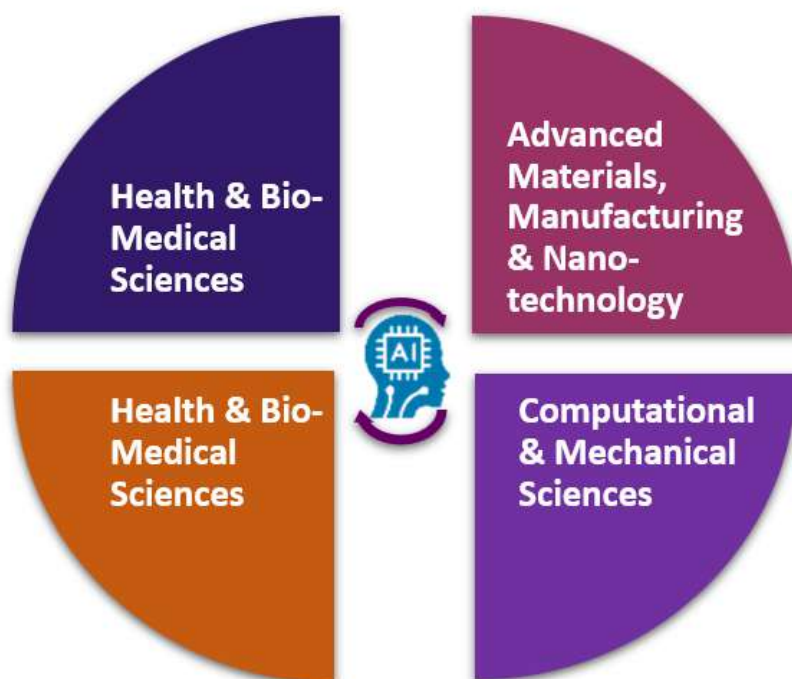
RUAS aims to be a leading Asian university recognized for applied research in a creative and innovative environment. The university has identified key multidisciplinary thrust areas aligned with national priorities and global Sustainable Development Goals (SDGs), ensuring research is relevant and impactful.

The strategic research focus areas are:

- **Data Science, Quantum Computing & Artificial Intelligence** – Driving innovation in computational intelligence, machine learning, and emerging quantum technologies.
- **Computational & Mechanical Sciences** – Advancing modeling, simulations, and engineering solutions for industrial and societal applications.
- **Advanced Materials, Manufacturing & Nanotechnology** – Developing next-generation materials, manufacturing techniques, and nano-scale technologies for diverse sectors.
- **Health & Bio-Medical Sciences** – Translating biomedical research into healthcare solutions, therapeutics, and clinical applications.

These thrust areas guide interdisciplinary research, foster industry partnerships, and enable RUAS to deliver solutions that address contemporary challenges across technology, healthcare, and society.

Thrust Areas at RUAS



ADVANCING RESEARCH EXCELLENCE: PHD SCHOLARS

RUAS continues to nurture a vibrant and innovative research ecosystem through its doctoral program, supporting scholars in exploring cutting-edge and industry-relevant research areas. In the academic year 2024-2025, a total of **61 PhD scholars** were enrolled, comprising **29 Full-time** and **32 Part-time scholars**, reflecting a balanced representation across disciplines and genders.

Part-time scholars include both **internal faculty members** enhancing their academic credentials and **external professionals** from leading organizations, fostering strong academia-industry linkages.

To promote research excellence, **27 scholars received RUAS fellowships** while **3 scholars benefited from other prestigious scholarships**, enabling them to pursue impactful research. The scholars' work spans diverse areas, from health and allied sciences to engineering and emerging technologies.

RUAS further strengthens the doctoral ecosystem by inducting additional approved supervisors, facilitating technical training, publications guidance, and industry collaborations. Graduates continue to make a mark globally, with several securing post-doctoral fellowships and contributing to high-impact publications and patents.

Table 1: Ph.D. Scholars (Academic Year 2024-25)

PhD Scholars Details	Aug 2024	Jan 2025
Overall Research Scholars	38	23
Full Time Scholars	18	11
Part Time Scholars	20	12
RUAS Scholarship	17	10
Other Scholarships	02	01
PhDs Awarded	32	25

Table 2: List of Graduating Students (2024-25)

Sl. No.	Faculty	Department	Student Name	Supervisor	Title of the Thesis
1	FET	Computer Science and Engineering	Ms. Shilpa R.G.	Dr. Pushphavathi T P	A Study of Security and Penetration Test Processes for Effective Attack Generation of Web Applications
2	FMC	Management Studies	Mr. Prasannakumar Kalahasthi	Dr. Usha N	Development of a Hybrid Workplace Model for Medium Product-Based IT Companies in Post-Pandemic Situation
3	FMC	Management Studies	Ms. Reshma K.J.	Dr. Ganesaraman K	Impact of Personality Type and Behavioural Bias on Entrepreneurial Intention
4	FET	Computer Science and Engineering	Ms. Priyanka S.P.	Dr. K M Sharath Kumar & Dr. T N Srikantha Dath	Development of a Supplier Relationship Management Model to Enhance the Effectiveness of Hospital Supply Chains
5	FMC	Management Studies	Mr. Emmanuel Kwabla Ocloo	Dr. K M Sharath Kumar	Development of a Model for Successful Transitioning of Startup MSMEs from Planning Stage to Operationalization in Ghana
6	FMC	Management Studies	Ms. Gouri Rameshbabu Javali	Dr. Madhu B K	An Integrated Model of Leader Cultural Quotient Influencing the Employee Experience in Virtual Teams of Mid-sized IT Enterprises
7	FET	Civil Engineering	Ms. Sharika. S	Dr. Anitha Kumari	Assessment of Liquefaction potential of Cohesionless soils through Analytical methods

Sl. No.	Faculty	Department	Student Name	Supervisor	Title of the Thesis
8	FMC	Management Studies	Ms. Vanishree K	Dr. N. Suresh	Impact of PMFBY Insurance with special reference to Food Crop Insurance in Karnataka
9	FDS	Pediatric and Preventive Dentistry	Dr. Lalitha S Jairam	Dr Sivaranjani Gali	Development of a novel mica-based oral film for prevention of dental caries with antibacterial and remineralizing properties
10	FDS	Public Health Dentistry	Dr. Monica M	Dr Pushpanjali Krishnappa	Development and validation of a risk assessment tool for detecting at risk individuals for oral cavity cancer
11	FET	Electrical Engineering	Mr. Veerabhadra	Dr. S Nagaraja Rao	Development of Control Techniques for Solar Photovoltaic System Interfaced with Grid Connected Reduced Switch Multilevel DC-Link Inverter
12	FPH	Pharmacology	Mr. Damodar Nayak A	Dr. J. Anbu	Exploring the Influence of Test Drug in Cardiovascular Complications: A Computational and Pharmacological Approach
13	FET	Computer Science & Engineering	Ms. Bhavatarini N	Dr. Jyothi A P	Investigation of Deep Learning Techniques for Improving Hyperspectral Image Classification
14	FPH	Pharmaceuticals	Mr. Amith Bounsle N G	Dr. R Deveswaran	Development of Morinda citrifolia Leaf Extract and Sericin Based Nanogel and Foam dressing for Effective Wound Healing
15	FDS	Prosthodontics and Crown and Bridge	Dr B.H.Harshitha Gowda	Dr Ravishankar K	Development of Flowable Mixture of Partially Demineralized Tooth Matrix and Injectable Platelet Rich Fibrin Graft Material for Socket Preservation and Characterization of Regenerated Bone
16	FMC	Management Studies	Ms. Karanam Kavitha	Dr. Chandra Sen Mazumdar	Development of Optimal Working Capital Management Model for Indian FMCG Manufacturing Sector in Post-GST Era

Sl. No.	Faculty	Department	Student Name	Supervisor	Title of the Thesis
17	FET	Computer Science & Engineering	Mr. R Sandeep Kumar	Dr. Pushpavathi	A Community Detection Topic Modeling Approach for a Cold Start Problem in Recommending the Scientific Articles
18	FNS	Chemistry	Mr. Udayan Gupta	Dr Niranjan Prabhu	Synthesis , Characterization and Photoluminescence Studies of Yttrium Based Nanophosphors for Anticounterfeiting Applications
19	FET	Electronics and Communication Engineering	Mr. Krishna R	Dr. Punithavathi	Circuit Design Techniques For Low Leakage CMOS SRAM Array Architecture in Deep Submicron Technology
20	FNS	Physics	Mr. Akash Daniel Georgi	Dr. K. J. Mallikarjunaiah	Magnetic and IFNMR Studies of Ferromagnetic Materials
21	FMC	Management Studies	Ms. Nandini K	Dr. A C Lokesh	Development of an Effectiveness Model for Enhancement of Customer Satisfaction in Diagnostic Labs
22	FMC	Management Studies	Ms. Malabika Purkayastha	Dr. Chandra Sen Mazumdar	Development of model for consumers' resource integration in online grocery with emphasis on the role of generational cohorts
23	FET	Computer Science & Engineering	Ms. Savitha A	Dr. Pushpavathi	Methodologies and Framework for Safety and Reliability of Mission Critical Software for Enhanced Quality Assurance Practices
24	FNS	Chemistry	Ms. Shivanjali Esther Arland	Dr. Jyotsna Kumar	Study of Isolated and Purified Kaempferol from Golden Shower Flowers and Biological Activities of Kaempferol-Ag Nanoparticles Embedded Chitosan Films: A Novel Combinatorial Approach
25	FET	Electrical Engineering	Ms. U Viji	Dr Nagaraj Rao	Fault Diagnosis and Network Reconfiguration in a Ring main Power Distribution Network
26	FNS	Physics	Mr. Jipin P M	Dr Rajukumar Biswas	Exploring transition metal dichalcogenides (TMDs) based Janus monolayers for next-generation nanoelectronics and thermoelectric applications

Sl. No.	Faculty	Department	Student Name	Supervisor	Title of the Thesis
27	FNS	Physics	Ms. Tanu Choudhary	Dr Rajukumar Biswas	Exploring carrier transport properties of bulk phase of transition metal based chalcogenides for transport and thermoelectric applications
28	FPH	Pharmaceutics	Ms. A. Kalyani	Dr. Bharath Srinivas	Development and Pharmacological Evaluation of Transdermal Delivery System Containing Conjugated Bisphosphonates for Targeting Bone Related Diseases
29	FNS	Chemistry	Mrs. Jyothy G Vijayan	Dr Niranjana Prabhu	Synthesis and characterization of cellulose-based hybrid hydrogels for the targeted removal of organic dyes
30	FPH	Pharmacy Practice	Mrs. Soujanya Jagadish Vastrad	Dr. G R Saraswathy	Leveraging multifaceted strategies to unveil crucial therapeutic targets and reconnoitre potential repurposable drugs to confront oral squamous cell carcinoma
31	FNS	Chemistry	Ms. Akshatha Chandrashekar	Dr. T. Niranjana Prabhu	Development of Multifunctional Thermally Conductive Silicone – Carbon Hybrid Nanocomposites
32	FNS	Mathematics and Physical Sciences	Ms. Lakshmi Subramanya	Dr Govind Kadambi	Development of Pattern Recognition Algorithms to Identify the Key Music Phrases in Carnatic Music Related to Ragas, Jatis, Talas and Composers
33	FLAHS	Allied Health Sciences (Public Health)	Ms. Jeevitha Gowda R	Dr. Anish Mehta	Development and Validation of a Cognitive Screening Tool for Early Detection of Dementia in Primary Health Care
34	FNS	Physics	Ms. Sushma Athokpam	Dr. Mallikarjunian	Synthesis and Characteristic Properties of Tellurovanadate based Glass Systems
35	FET	Mechanical and Manufacturing Engineering	Mr. Pritam Bhat	Dr. Mahesh Varpe	Development of a Battery Cooling System for the performance Enhancement of a Li ion Battery Module in Electric Vehicles
36	FPH	Pharmaceutics	Mr. Shreeshaail Tumbagi	Dr. Bharath S	Development of Site-Specific Particulate Delivery of

Sl. No.	Faculty	Department	Student Name	Supervisor	Title of the Thesis
					Docetaxel for Lung Cancer
37	FPH	Pharmacy Practice	Ms. Batoul Barari Tajani	Dr. E Maheswari	Identification of Barriers and Assessment of Deprescribing Practices for Minimization of Drug Related Problems (DRPs) in Patients Admitted to Medical Oncology
38	FLAHS	Allied Health Sciences (Public Health)	Dr Tejaswini B Darukaradhya	Dr. Shalini Nooyi	Design, implementation and evaluation of a social cognitive theory-based behavior change intervention model for non-communicable diseases prevention among adolescents in urban and rural areas of Karnataka: A mixed-method study
39	FPH	Pharmacy Practice	Mr. Ravinandan A P	Dr. E. MAHESWARI	Development and Implementation of Clinical Process Maps to Minimize the Incidence of Prescribing Cascades amongst Elderly Patients
40	FDS	Orthodontics and Dentofacial Orthopaedics	Dr. Khadeer Riyaz	Dr G. S. Prashantha	Development and validation of Novel Intra-Oral Photobiomodulator for Accelerated Orthodontic Tooth Movement
41	FET	Electronics and Communication Engineering	Ms. J. Kiranmayee	Dr. Christy Bobby	Evaluation of Deep Learning Architectures for Classification of Glioma using MRI Data
42	FPH	Pharmacy Practice	Dr Mekkanti Manasa Rekha	Dr. E. Maheswar	Clinical Pharmacist Perspectives on Therapeutic outcomes of Tuberculosis Patients- An Extended Cascade of Care
43	FLAHS	Food Technology	Mrs. Akki Suma	Dr. Rajadurai	Evaluation of plant extracts for storage pest (Callosobruchus chinensis) control: A semiochemical aspect
44	FLAHS	Food Technology	Ms. Chaitradeepa G Mestri	Dr. Hanumantharaju	A study to develop plant based edible paper for food packaging as an alternative to printed paper
45	FLAHS	Biotechnology	Ms. Varshaa O Arer	Dr. Debasish Kar	Decoding Resistance: A computational profiling of β -lactamases in gram negative

Sl. No.	Faculty	Department	Student Name	Supervisor	Title of the Thesis
					organisms and a peptide based approach to strengthen the antibiotic action
46	FMC	Commerce	Ms.Renee Namratha	Dr. Shivakami Rajan	Development of an Effective Diversity Management Model for Enhanced Team Performance in Higher Education Sector
47	FDS	Oral Medicine and Radiology	Dr Lekshmy	Dr. N. Rakesh	EVALUATION OF EFFICACY OF GLABRIDIN IN SUBMUCOUS FIBROSIS
48	FET	Computer Science and Engineering	Mr. Sagar D	Dr. Raja R	An Empirical study on Thermal Distribution and Energy Management strategies for Li-ion battery pack using intelligent algorithms for Electric vehicle application
49	FLAHS	Allied Health Sciences (Public Health)	Dr.Dipika Bumb	Dr. Shalini Nooyi	Designing and testing a leadership curriculum for trainers of public health providers in Meghalaya: A Multimethod Study
50	FMC	Management Studies	Ms. Sushma B.S.	Dr. Chandra Sen Mazumdar	Integrated Model to Ascertain the Impact of Financial Literacy, Entrepreneurial Education and Financial Wellbeing on Entrepreneurial Intent for Gen Z and Millennials

FUELING INNOVATION THROUGH SEED GRANTS

The University actively promotes research through **seed grants**, enabling early-career researchers to generate preliminary data and build a foundation for securing larger extramural grants. These intramural projects not only support faculty but also serve as a platform to engage students in meaningful research.

- **2024-2025:** The momentum continued with **47 projects** sanctioned with grants of **₹69 Lakhs**.

Collectively, RUAS has supported **152 seed projects** till date, reflecting its strong commitment to fostering innovation and interdisciplinary collaboration.

The projects addressed diverse societal and industrial challenges such as:

- Development of **nano-bio polymers** for targeted drug delivery and food packaging.
- **3D printing applications** for novel prototypes and functional models.
- **Nano-additives** for treating contaminated water.
- **Economic and statistical modeling** for healthcare, communicable and non-communicable diseases, and human organ donation.
- Innovations in handloom textiles, aerodynamic turbine modeling, and architectural enhancements for concrete structures.

The seed grants also facilitated procurement of critical research equipment, including a **photocatalytic reactor** and **fused deposition modeling 3D printer**, further strengthening research infrastructure and enabling faculty to build sustainable research groups.

Table 3: Seed Grants (Outcomes)

Out-comes of Seed Grants	
Papers Publications	64
Patents Granted	03
Students Involved	274
External Projects Applied	17
Equipment Procured	19
Total No. of Seed Project Granted till date	152
Total Amount of Seed grants Disbursed (in Lakhs)- 2024-2025	69.75

Table 4: Seed Grants (2024-2025)

SI No.	Name of PI	Faculty	Department	Title of the Project	Amount Sanctioned
1	Dr.Deeya Saha	Faculty of Allied Health Sciences	Food Technology	Taxonomic and metabolic profiling of soil microbiota of different Agro-climatic zones in Karnataka for sustainable management of horticultural diseases	2,00,000
2	Dr Amrita Saxena		Food Technology	Identification of candidate genes having molecular cross talk between drought resistance and blast tolerance in rice through network approach	3,00,000
3	Dr.Shruti mathur		Bio Technology	Development of minimum viable product of a multiutility polymer produced by bacteria grown on agro industrial wastes	2,50,000
4	Dr. Kshreeraja satish	Faculty of Pharmacy		An integrative approach for target discovery and drug repurposing in cervical cancer	2,50,000
5	Dr.Vijaybhanu P			Design, synthesis and in vitro evaluation of novel coumarin based compounds as anti-breast cancer agents	1,50,000
6	Dr.Suma B			Targeting renal cancer : Molecular insights and Nano formulation of Fisten	1,50,000
7	Dr.Gouri Nair			Aptamer mediated Zinc metal organic framework tangled with test drug for HIF1A -positive hepatocellular carcinoma	2,50,000
8	Dr. Afshan Zainab Hasan	Ramaiah Medical College and Advanced Learning Center		Spectral Analysis of Heart Rate Variability in Fibromyalgia and its relation to pain severity	75,000
	Dr. Rakshith Srinivasa				
9	Dr. Hamsa V			Augmented renal clearance in pediatric intensive care unit – A pilot study	2,00,000
10	Dr.Nikitha. R			Adrenomedullin - procalcitonin ratio, as prognostic marker for clinical outcomes among patients with sepsis – A prospective comparative analysis between procalcitonin, CRP, q SOFA score .	1,00,000
11	Dr. Priyanka Sangumath			Impact of histopathological features and HPV association on the outcomes of oral cavity squamous cell carcinoma patients: a single institute prospective study	50,000
12	Dr. Namita Ravi kumar			Multiplex respiratory PCR and serum procalcitonin based diagnostic algorithm to reduce antibiotic usage in critically ill children admitted with pneumonia	1,50,000
13	Dr. Ajoy S.M			Establishing a novel preservation method for Osteochondral Allografts to maximize Chondrocyte viability	75,000

SI No.	Name of PI	Faculty	Department	Title of the Project	Amount Sanctioned
14	Dr Sharanya Sabrish	Faculty of Dental Sciences	Orthodontics & Dentofacial Orthopedics	Comparative evaluation of the effectiveness of two fluoride varnishes in the prevention of white spot lesion during fixed orthodontic treatment- an In vivo study	1,00,000
15	Dr .Hajira Khatoon*		Department of Oral & Maxillofacial Pathology and Oral Microbiology	Transcriptomic Profiling of Verrucous Carcinoma and Its Transformation into Oral Squamous Cell Carcinoma: A Comparative RNA Sequencing Study	1,50,000
16	Dr.Nithin Shetty		Conservative dentistry and Endodontics	Development and characterization of a novel bioactive resin composite with glass fibre reinforcement	1,00,000
17	Dr.Sejal kumarpal Munoyath		oral and Maxillofacial surgery	Use of buccal fat derived stem cells cultured or repair of cyst defects	1,00,000
18	Dr. Prasanna*		Prosthodontics and Crown and bridge	Development of a novel fluoro-silicate glass coating for dental ceramic restorations	1,00,000
19	Dr Serene Joy*		Pedodontics and preventative Dentistry	Development of hybrid ECM-based hydrogel from Perinatal Bio-waste for in-vitro Assessment of Odontogenic Potential	1,50,000
20	Dr.Rhea S Mathew*		Conservative dentistry and Endodontics	Design and Evaluation of an Endomotor with Integrated Irrigant Delivery System for Enhanced Root Canal Treatment	2,00,000
21	Dr Prem Kumar R*		Pediatric and preventive dentistry	Development of a Zwitterion and Casein Phosphopeptide-Amorphous Calcium Phosphate loaded Oral Dispersible Nanoemulsive adhesive for Caries Prevention - An In-vitro Study	1,50,000
22	Dr Gayathri V S*		Pediatric and preventive dentistry	Decoding the Oral-Gut Microbiome Axis in Autism Spectrum Disorder: A Shotgun Metagenomic Approach	2,50,000

SI No.	Name of PI	Faculty	Department	Title of the Project	Amount Sanctioned
23	Dr. Elizabeth Abbu Varghese		Peadiatric and preventive dentistry	Design and Fabrication of a Biocompatible 3D Interceptive Appliance using Machine Learning Model for Space Management in Mixed Dentition Period	3,00,000
24	Dr Akshatha raj		Peridontology	An invitro Assesment of Biological impact of Arginine rich platet rich fibrin on Gingival fibroblasts -A novel approach to Periodontal healing	1,50,000
25	Dr.Adarsh Krishnamurthy	Faculty of Engineering and Technology	Aerospace and automative Eng	Experimnetal validation of swarm intelligence Algorithims on multi UAV platforms	1,50,000
26	Dr.Nageswara Guptha		Computer science and eng	Question paper generation and Disturbution system using GenAI	1,00,000
27	Dr.Rajashekara reddy		Aerospace and automative Eng	Development of a cost effective test rig of thrust , torque, vibration and noise analysis of UAV propellers	1,25,000
28	Dr.Sachin.S		Electrical engennerring	Design and development of Wind powered single phase grid tied two level inverter with FPGA based PWM controller	2,00,000
29	Dr. R. Suresh and Dr. Sachit TS		Mechanical enginerring and Robotics and Automation	Development of Humanoid robot for Patient	1,50,000
				Companionship and Mental Health Support	
30	Dr. Narasimman	Faculty of Natural Sciences	Chemistry	Developmment of Nickel boride /borate based electro catalysts for water splitting application	3,00,000
31	Dr. Mamata Singh			Nano-Engineered Carbon-Metal Composites for EnhancedSelective Sensing and Detoxification of Pesticides	1,00,000
32	Dr.Maya Pai M			Desiogn and synthesis of Fused hetrocyclic molecules for efficient organic solar cells	1,00,000
33	Dr. Vimal Raj L	Faculty of Management and Commerce	Management Studies	Risk Perception and Decision-Making Factors among Derivatives (F&O) Investors: An Empirical Investigation	50,000
34	Dr. Gururaj Phatak			Exploring the Factors Influencing Consumers' Purchase Decisions Toward Organic Agricultural Products	1,00,000
				Exploring Work Aspects of Inter-State Long Haul Truck Drivers in South India: Working Hours, Earnings and Safety	
35	Dr.Suhadeep Mukerjee				

SI No.	Name of PI	Faculty	Department	Title of the Project	Amount Sanctioned	
36	Dr.Bhanu Pratap			Exploring the impact of complexity in managing end of life lithium battery on Raw material recovery	2,50,000	
37	Dr.Somya Agrawal			Data driven strategic capital budgeting decision Support portal	75,000	
38	Dr.Ayush Singh			Analyzing the wastes factors and redesigning the SCN model for cost optimization of dairy-products SC: Empowering Indian Dairy- MSME	1,50,000	
39	Dr Akil kunar Singh	School of Social Sciences	Deaprtment of Public policy	Designing a comphrehensive indian ECCE training framework for Aganwadi workers	1,50,000	
40	Dr.Teejala Siva bhaskar		Department of Sociology	Understanding the student migration from North east to Bengaluru from an aspirations capability frame work	2,50,000	
41	Dr Ajit kumar Babu		Department of Economics	Alinging education with work : Astudy of skill mismatch in india	2,50,000	
42	Dr Anantha Ramu .M.R		Department of Economics	Public finances of Diffrently abled children in Karnataka Framework of Divang budget	75,000	
43	Dr. Rema .V		Data science and Analytics	AI intervention in crafting innovations in Learning Designs	75,000	
44	Dr Sakshi Shukla and Dr.Isha Jha		Sociology	Wellnes as a service Exploring platform mediated self care practices among professional women in Bengaluru	75,000	
45	Dr.Anitha DS		Department of Psychology	A digital gamified intervention foraddressing Depression , anxiety , and suicidal ideation in adolescents	75,000	
46	Ms Surabhi Mathur		School of Law	Menstrual Equity at workplace , period leave policy and Law of India	75,000	
47	Dr Sonali Gupta	CFE	Centre for Entrepreneurship	Only time will tell: A bibliometric review and analysis of longitudinal studies in entrepreneurship	75,000	
			09 Faculty	47 Projects	69,75,000 (in INR)	

HIGH-IMPACT PUBLICATIONS

Research funding at RUAS continues to translate into high-impact outcomes in publications, patents, and advanced research infrastructure. In **2025**, RUAS recorded **788 publications** (406 Scopus-indexed), with citations rising to **41,246** and the **h-index improving to 69**, reflecting stronger research influence.

Table 5: Publications

Publications	2023	2024	2025
Scopus indexed publication	540	484	406
Web of Science publication	368	143	166
Total (Scopus+WoS)	908	627	572
Other Indexed Journals (Google Scholar)	968	789	601
Citation (Scopus)	21567	28478	41246
h-index	57	58	69

CITATIONS OF SCOPUS-INDEXED PUBLICATIONS AT RUAS

1. A.p J, Shankar A, J.r AN. Synergising 6G technologies, artificial intelligence, and green innovations: A path towards sustainable and intelligent connectivity. Vol. 139, *Advances in Computers*. 2025. p. 381–432.
2. Aarthi S, Ravikumar RN, Balakrishnan R, Pavithra KP, Jumanioyozov F, Manoj Praveen V. Blockchain for seamless and transparent smart hospitality operations. 2025. p. 187–217.
3. Abhilasha A, Kumar KV, Prasad KDV, Ranganath K, Reddy R. Efficacy of Topical Insulin Gel Dressing Versus Collagen Dressing in Treating Facial Soft Tissue Abrasions: A Split Face Clinical Study. Vol. 24, *Journal of Maxillofacial and Oral Surgery*. 2025. p. 1297–302.
4. Abidi S, Kumar A, Dwivedi S, Sharma VK, Talegaonkar S, John D. Cost-effectiveness of clopidogrel in patients with acute coronary syndrome undergoing percutaneous coronary intervention: a systematic review protocol. Vol. 23, *JB I Evidence Synthesis*. 2025. p. 1824–31.
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PATENTS SHAPING THE FUTURE

At RUAS, we believe that universities are not just centers of learning but also incubators of creative thought and problem solving. Our faculty and students have consistently demonstrated this spirit by addressing real-world challenges through novel solutions—ranging from healthcare technologies to sustainable engineering practices. Each patent listed herein stands as a testimony to their ingenuity, perseverance, and desire to make a meaningful difference. These patents encompass novel research in fields of Healthcare and engineering enabling an innovative eco system at the university.

Table 6: Patents (2023-2025)

Patents	2023	2024	2025
Filed Patents	26	35	24
Published Disclosures	24	26	26
Granted Patents	33	54	14

Table 7: List of Patents (2025)

Granted Patents – Jan 2025 to Dec 2025

Sl. No.	Name of the inventors	Faculty	Title	Granted date	Patent number
1	1. V.S Yerragudi 2. Pallavi R Kumar	FET	Method and System for Dynamic Password Generation	1/20/2025	558234
2	1. Magesh .V 2. Sandhya.Anilkumar	FHMCT	Intelligent Dustbin	1/23/2025	558550
3	Mr. Mrityunjay Pandey, Lead Application Developer, AT&T,Dr Rinki Sharma	FET	System with Dynamic Resource Allocation for SD-WAN	2/26/2025	561273
4	1) Kavimalar.R 2) Dinesh K 3) Shruthi Nagaraja 4)Bharath Srinivasan	FPH	Phosphate Buffer decalcifying agent for dissolution of pulp stones	3/25/2025	563586
5	Ranganath .K	FDS	Retractor Providing Enhanced Protection to the Soft Tissue for Oral Surgery	4/2/2025	564807
6	Vinay Bharadwaj Tatipamula, Dr. Sheetal Kaushik, Dr Kotturty Venu Achari, Dr. Mohamed Shabi Mohamed Abdul kader, Vikas Kumar Bhagat, Mr. Vijaykumar Tanajirao Pawar, Dr. Ishan Sharma, Jagruthi Mahesh, Keerthi Nanjegowda, Shaikh Gulam Rasool	FPH	AI based Rotarod laboratory apparatus for monitoring neurodegenerative activity in mice International Design Classification: Version: 15-2025 Class: 24 medical and laboratory equipment subclass: 01 apparatus and equipment for doctors, hospitals and laboratories	5/13/2025	6441486
7	N. D. Gangadhar, V.S Yerragudi , Sindhura KH	FET	Method, System and Apparatus for Indoor Navigation	6/13/2025	567445
8	1) Dhruv Jyoti Mukherjee 2) Gouri Nair 3) Anusha Saraswathi D S	FPH	Nanomaterial Containing Ginsenoside Rg1 for Management of Autism	6/13/2025	567426
9	Nagarajan.S, sanket Deasi Mritunjay pandey, priyanka amminabhavi , Anusha, padma	FET	IoT Based Walking Stick For Elderly and Vision Impaired, Physically Disabled	7/7/2025	568473
10	1) S. Bharath 2) M.S. Kabita Kumari 3) J Anbu	FPH	In-situ Gel Forming Rectal Spray for Treatment of Hemorrhoids	7/9/2025	568530

Sl. No.	Name of the inventors	Faculty	Title	Granted date	Patent number
11	1. Mohammad Azamthulla 2. Sandhya K.V 3. Thanuja N K	FPH	A Method of Preparation of a Nanoparticulate Loaded Pavala Parpam Formulations as a Transdermal Patch	8/25/2025	570006
12	Sindhu Abraham Chaitra Shree T J Kesha Maheshbhai Desai	FPH	Nano Calcium Incorporated Piscean Collagen Scaffolds as a Dressing Material for Burn Wounds	9/1/2025	570307
13	Nageshwar Guptha, Hema MS, Mary, prema Aroka	FET	Autonomous crop irrigation robot	2/26/2025	449832-001
14	Nageshwar Guptha Dr. C. Solaimuthu . . Hema Srividhya G 5.. Prema Arokia Mary G 6.. Bama S 7 S. Sri Lavanya Priya 8.Madhumathy P.	FET	AI Enabled Device for Detection of Neurological Disorders	7/30/2025	454549-001

Published Patents - Jan 2025 to Dec 2025

SI No	Docket No	INVENTOR(S) Name	Application Number	Title	Filing Date	Publication Date
1	OMS.0004.001003	1. Ugra Mohan Roy 2. Vaishnavi Pataki	202441036276	Optical Micro Ring Resonator Based Decoder And D-Flip-Flop	5/7/2024	11/14/2025
2	OMS.0004.001002	1. Greeshma C 2. Karishma Jagadeesh	202441040506	Novel Ultrafine Dispersible Mineral Trioxide Aggregate	5/24/2024	11/28/2025
3	OMS.0004.001001	1. Lalitha S Jairam 2. Dakshath P Jembige 3. Dhanya Shri M 4. Yshanna De Souza 5. Arya M	202441043274	A Novel Quantified Toothpaste Dispenser	6/4/2024	12/5/2025
4	OMS.0004.001000	1. Sivaranjani Gali 2. T. Niranjana Prabhu	202441041570	A Method and Apparatus of Tinting Dental Zirconia	5/29/2024	12/5/2025
5	OMS.0004.000999	1. Soumya 2. Jyothikrishna B 3. Bhavya K 4. Hanumantharaju K N 5. Lokesh A C	202441043271	Nano-Encapsulation of Anthocyanin from Rice Bran as Natural Colorant	6/4/2024	12/5/2025
6	OMS.0004.000998	1. Aishwarya V Patil 2. R Vinoshini 3. Afeefa Samreen 4. Modupalli Sai Manasa	202441043272	Method of Preparation of Pure Oats Biscuits	6/4/2024	12/5/2025
7	OMS.0004.000997	1. G.P. Darshan 2. Akshay Arjun 3. H B Premakumar	202441028436	A Broadband Emitting Inorganic Nanophosphor for Full-Spectrum Phosphor Converted White Light-Emitting Diodes Application	4/6/2024	10/10/2025
8	OMS.0004.000996	1. K. T. Prajwal 2. K. Manickavasagam 3. Naveen Kumar	202441041569	Fuzzy Based Intelligent Controller for Voltage Enhancement from Energy Harvester	5/29/2024	12/5/2025

SI No	Docket No	INVENTOR(S) Name	Application Number	Title	Filing Date	Publication Date
		Thotakanama 4. Malathi Sathish				
9	OMS.0004.000995	1. Ugra Mohan Roy 2. Sujithkumar Reddy Bommareddy	202441036274	Single Wire Duplex Communication System	5/7/2024	11/14/2025
10	OMS.0004.000994	1. Thirtha Kumar K N 2. Gurukiran S 3. Vivek Jadhav 4. Kalyan M 5. Jayahar Sivasubramanian 6. B K Swathi Prasad	202441041572	Docking and Battery Swapping System for Unmanned Aerial Vehicles	5/29/2024	12/5/2025
11	OMS.0004.000993	1. Jyotsna Kumar 2. Geeta Krishnamurthy 3. Lairikyengbam Deepti Roy	202441043270	Acetamide Derivative as Antioxidant and Antimicrobial Agent	6/4/2024	12/5/2025
12	OMS.0004.000992	1. Srinivasa 2. B S Dayananda 3. Lokesh A C	202441036275	System for Automation of Groundnut Crop Production	5/7/2024	11/14/2025
13	OMS.0004.000991	1. Ugra Mohan Roy 2. Divya Kiran	202441032532	Method and System of Back to Back Optical Inverter Using Micro Ring Resonator	4/24/2024	10/31/2025
14	OMS.0004.000990	1. Ugra Mohan Roy 2. Malathi Sathish 3. Dhruv Sachin Kamath 4. Rik Bhattacharjee	202441032529	Method and System for an Optical 2:1 and 4:1 MUX using Micro Ring Resonator	4/24/2024	10/31/2025
15	OMS.0004.000989	1. Govind R Kadambi 2. Harshini K 3. Varun D	202441032527	Waveguide Slot Coupled Pyramidal Horn Array	4/24/2024	10/31/2025
16	OMS.0004.000988	1. Chandana M 2. Dileep K	202441041568	Novel Dual-Band Reconfigurable Conformal Planar Filter	5/29/2024	12/5/2025

SI No	Docket No	INVENTOR(S) Name	Application Number	Title	Filing Date	Publication Date
		3. Harshini K 4. Varun D				
17	OMS.0004.000987	1. Shahaziya Faruk 2. Bhavya B 3. Kranti. K 4. Dakshath P Jembige 5. Parikshith Narayana Mallya 6. Ruthvik K.S	202441043275	An Oral Soft Tissue Marking Instrument - Muco Marker	6/4/2024	12/5/2025
18	OMS.0004.000986	1. Gayathridevi S K 2. Ravishankar K 3. Nidhi P B 4. Nanditha B K Shetty 5. Jiya Thankachan 6. Raafiya Jameel	202441032530	Coir Fibers Reinforced with Polymethyl Metha Acrylate	4/24/2024	10/31/2025
19	OMS.0004.000985	1. K. Shwetha 2. B V Basavaraj 3. J Anbu	202441041571	In-situ Superporous Hydrogels and Swellable Vaginal Tablet as Cervix Plugs for an Amplified Contraception Potential	5/29/2024	12/5/2025
20	OMS.0004.000984	1. Govardhan K R 2. Damodar Nayak A 3. Parasuraman P	202441043273	Drug Entangled Multi-Walled Carbon Nanotubes Against Breast Cancer	6/4/2024	12/5/2025
21	OMS.0004.000983	1. HR Sameera 2. J Anbu 3. Damodar Nayak A 4. Parasuraman P 5. Shannon D Almeida	202441032531	Novel Dunaliella Salina Formulation Against Cardiovascular Complications	4/24/2024	10/31/2025
22	OMS.0004.000982	1. Rithani Nallamuthu 2. Raima Choudary 3. Vidya M	202441032528	Edible Red Pigment or Food Colorant from Peanut Butter Fruit	4/24/2024	10/31/2025

SI No	Docket No	INVENTOR(S) Name	Application Number	Title	Filing Date	Publication Date
		4. Lokesh A C 5. Lokesh Ravi 6. Suresh G J				
23	OMS.0004.000981	1. Shreya Kajagar 2. Madhushree 3. Sharanya Das 4. Pranav Gowda N 5. Mahesh V M 6. Pranav M 7. Ravi Shankar S 8. Lokesh Ravi	202441032094	Ice Cream Dessert to Combat Bacterial Infections and Boost Immune System	4/23/2024	10/24/2025
24	OMS.0004.000980	1. Nayana N Patil 2. Nishanth L	202441032095	Bacteria In-corporated High Strength Sustainable Self-healing Self-consolidating Geopolymer Concrete	4/23/2024	10/24/2025
25	OMS.0004.000979	1. Pranupa S 2. Sachin S 3. Nagarathna A.S 4. Pavan Kumar H 5. Namratha D 6. Sahana S Vandal	202441032096	Automated IoT-Based Pet Feeding Machine	4/23/2024	10/24/2025
26	OMS.0004.000905	1. Divya B S 2. Roopa S Rao 3. Lichingngamba Tensubam 4. Tushar Patil	202341059719	System and Method for Diagnosis and Risk Stratification of Odontogenic Keratocysts from Histopathological Images of Incisional Biopsies	9/5/2023	3/7/2025

SUMMARY ON EXTRAMURAL GRANTS

The period from 2023 to 2026 marked a sustained expansion of extramural research funding across four major verticals of the University—**Ramaiah University of Applied Sciences (RUAS), Ramaiah Medical College(RMC), Clinical Research Projects (CRP), and Consultancy Projects in Engineering Via the Techno Center Engineering (TCE)**. The cumulative outcomes reflect a robust growth trajectory, greater national recognition, and strengthening of multidisciplinary research capacity across faculties.

This section presents a consolidated analysis of the amounts received and sanctioned over the four-year period, highlighting year-wise progress and total achievements.

1. RUAS Extramural Grants (2023–2026)

RUAS demonstrated strong and consistent performance, attracting a total of Year-wise Performance

Year Wise	Amount received INR in Lakhs
2023-24	83.4
2024-25	239.1
2025-26	156.7
TOTAL	479.2

The year 2024–25 recorded significantly high receipts, while 2025–26 showed the highest sanctioned amount, reflecting growth in large-scale, long-term funded projects.

RUAS projects span health sciences, engineering, basic sciences, dental sciences, and social sciences—demonstrating its wide-ranging national research footprint.

2. RMC Extramural Grants (2023–2026)

Ramaiah Medical College continues to be a major contributor to research at RUAS, receiving:

Year Wise	Amount received INR in Lakhs
2023-24	214.6
2024-25	234.8
2025-26	132.5
TOTAL	582.0

RMC recorded continuous growth between 2022–25, with a peak of ₹23.48cr in 2024–25. The funding sources include major national agencies such as DBT, DST, ICMR, and several State Government-supported initiatives. These grants support specialized healthcare research including neurosurgery, endocrinology, public health system strengthening, biomedical innovation, and clinical trials.

Table 9: RMC Sponsored Research Projects from 2025-2026

S.N o.	Financial Year	Name of Faculty (Principal Investigator)	Department	Name of the Funding agency	Title of the Project	Amount Received (Rupees)
1	2025-26	Dr. Shabari Girishan	Neurosurgery	DST	Automated time frequency analysis - Based seizure localization using intracranial EEG	118,027.0
2	2025-26	Dr. Chitra	Endocrinology	ICMR-St. Johns Medical College	EVANESCENT - DPN -RCT	1,333,332.0
3	2025-26	Dr. Shalini C Nooyi / Dr Nanda Kumar B S	RICPHI	Meghalaya Government	Meghalaya Health System Strengthening Project	11,800,000.0
TOTAL						13,251,359.0

3. CRP Extramural Grants (2023–2026)

The Centre for Research Promotion (CRP) secured:

Year Wise	Amount received INR in Lakhs
2023-24	78.70
2024-25	87.22
2025-26	67.08
TOTAL	233.01

Table 10: CRP Sponsored research projects from April 2025 to August 2025

Sl. No.	PI Name	Department of PI	Name of funding agency	Sanctioned Amount
1	Dr Pramila Kalra	Endocrinology	Novonordisk india pvt ltd	753675
2	Dr Chitra Selvan	Endocrinology	Eli lilly Company (I) pvt ltd	704218
3	Dr Chitra Selvan	Endocrinology	Novonordisk India pvt ltd	744377
4	Dr Santosh kumar Devadas	oncology	Glaxosmithkline Pharmaceuticals pvt ltd	80000
5	Dr Pramila kalra	Endocrinology	Novonordisk india pvt ltd	467750
6	Dr Santosh kumar Devadas	oncology	Amgen technology pvt ltd	30000
7	Dr Sumathy TK	Dermatology	Syneos Health UK Limited	401913.7
8	Dr Chitra Selvan	Endocrinology	Eli lilly Company (I) pvt ltd	1371705
9	Dr Santosh kumar Devadas	oncology	Bristol Myers Squibb india pvt ltd	429697
10	Dr Pramila Kalra	Endocrinology	Allucent (India) Pvt LTd	163725
11	Dr Ashwin Kulkarni	Medicine	PSI CRO Pharma India pvt ltd	75000
12	Dr Chitra selvan	Endocrinology	Novonordisk india pvt ltd	317050
13	Dr V S Prakash	cardiology	Novonordisk india pvt ltd	100000
14	Dr Avinash Balekuduru	Gastroentrology	World wide Clinical Trials	146387
15	Dr Avinash Balekuduru	Gastroentrology	Eli lilly Company (I) pvt ltd	197276
16	Dr Chitra Selvan	Dr Chitra Selvan	Novonordisk india pvt ltd	100000
17	Dr V S Prakash	cardiology	Novonordisk india pvt ltd	100000
18	Dr Santhosh Kumar Devadas	oncology	Johnson & Johnson pvt ltd	100000
19	Dr Ajoy SM	orthoepedics	Amgen Technology Pvt Ltd	50000
20	Dr Avinash Balekuduru	Gastroentrology	IQVIA RDS (India) private Limited	275322
21	Dr Gireesh M S	Nephrology	Novonordisk india pvt ltd	100000
Total				6,708,096.0

4. TCE Extramural Grants (2023–2026)

The Faculty of Engineering & Technology (TCE) achieved:

Year Wise	Amount received INR in Lakhs
2023-24	87.03
2024-25	75.32
2025-26	46.68
TOTAL	209.05

The highest funding was secured in 2023–24, followed by consistent performance in the subsequent years. TCE grants support engineering design, advanced manufacturing, smart systems, materials science, and automation research.

Table 11: TCE Sponsored research projects 2025 -2026

Sl.No	Financial Year	Name of the Funding agency	Title of the Project	Amount Received (INR Lakhs)
1	2025-26	BEL	Finite Element Analysis of Transducer Mounting Structure	188,445
2	2025-26	KELTRON	Thermal Analysis and Structural Analysis of Electronic Cabinets (4 Nos)-Active Power Supply, Active Transmitter, Active Relay Cabinet, UCS transmitter Cabinet	1,336,256
3	2025-26	DMSRDE	Process Parameter Optimization for Development of Hybrid composites	1,651,050
4	2025-26	BEL	Thermal & FEM Analysis of Control, VFD & Power Supply Cabinets	720,000
5	2025-26	BEL	Thermal & FEM Analysis of Control, VFD & Power Supply Cabinets	144,000
6	2025-26	Entec Advanced Technologies Limited	Liquid Chiller Unit Ns Assembly 20 KW	115,600
7	2025-26	Paras Defence and Space Technologies Ltd	Finite Element Analysis of 100 Bar Pressure Vessel	41,300
8	2025-26	Entec Advanced Technologies Limited	75 KW Liquid Chiller Unit(Lcu) Assembly	206,500
9	2025-26	Entec Advanced Technologies Limited	ESR0302005 / Sloshing Analysis of 30KW LCU Coolant Reservoir Unit & FE Analysis of Mechanical Frame	265,500
Total				4,668,651.0

5. Combined Extramural Grants from Four Verticals (2023–2026)

Across RUAS, RMC, CRP, and TCE, the University secured:

Year Wise	Amount received INR in Lakhs
2023-24	463.7
2024-25	636.4
2025-26	403.0
TOTAL	1,503.1

2024–25 was the strongest year with ₹63.64 crores received, marking the highest inflow of extramural funding within the four-year period. The consistent flow of large grants indicates the University's expanding research credibility and strong engagement with national funding bodies. The increase in sanctioned amounts reflects growing trust placed in RUAS researchers to lead strategic and high-value projects.

The period 2023–2026 has been one of remarkable growth in extramural research funding at RUAS. With large volume of sanctioned projects, the University has strengthened its position as a leading research-driven institution in India.

These achievements highlight:

- Expanding multidisciplinary collaborations
- Enhanced faculty research capacity
- Growing national recognition
- Increased involvement in large-scale, high-impact projects
- Strong contributions from health sciences, engineering, and fundamental research units

The upward trend in research funding underscores RUAS's commitment to fostering innovation, societal impact, and academic excellence.

EXTERNAL COLLABORATIONS AND MOUS

RUAS actively engages with **national and international partners** to strengthen research, student exchange, and industry-academia linkages. In **2024–2025**, the University has a total of **164 active MOUs**, including **43 international** and **121 national** agreements.

Ongoing MoUs

- **University of Derby, UK** – Research collaborations
- **Ghent University, Belgium** – Student and faculty exchange, joint research
- **Karnataka State Cricket Association (KSCA)** – Assessment and therapy programs

Upcoming MoUs

- **Association of People with Disability (APD)** – Community health projects
- **CMC Vellore, Department of Bio Engineering** – Collaborative research
- **MGM University, Mumbai** – Projects on biomechanics, gait lab, and kinesiology

These collaborations have facilitated **joint research proposals** for national and international funding agencies, **student internships**, and **faculty consultancy**, further enhancing RUAS' engagement with the global research and innovation ecosystem.



CONSULTANCY AT RUAS

RUAS fosters a vibrant consultancy ecosystem, where faculty leverage their specialized knowledge to provide solutions for government bodies and industry partners. These initiatives reinforce industry-academia partnerships, amplifying the practical impact of research and innovation. Key consultancy areas include **Operations and Management**, **Engineering and Technical Services**, and **Medical Research**.



ENHANCING RESEARCH EFFICIENCY AND SUPPORT

The Research Department at RUAS has implemented several initiatives to streamline research operations and boost overall productivity. All research and innovation policies have been consolidated into a shared repository, ensuring transparency and easy access. Dedicated office hours address common queries and provide systematic guidance, while administrative processes have been simplified—for example, the Office of Research and Innovation (ORI) now maintains an Inward and Outward Register, achieving a swift two-hour turnaround for approvals.

A structured weekly schedule ensures smooth document transfer between the Peenya and GG campuses. The PhD program has been optimized through targeted efficiency measures. Faculty and researchers are kept informed of funding and research developments through newsletters such as **ORCHID** (fellowships and grants) and the newly launched **Research Insights** (ongoing research highlights).

Additionally, **research compendiums**—covering thrust areas, seed grants, extramural grants, researchers, and characterization facilities—are prepared and shared with all faculty, offering a consolidated view of research expertise, resources, and opportunities across RUAS. A detailed inventory of equipment and facilities, along with usage and contact information, ensures optimal resource utilization. A summary of these initiatives is provided in **Annexure 1**.





RESEARCH INFRASTRUCTURE

RESOURCE COMPENDIUM

July 2024

Office of Research & Innovation

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Research Insights @ RUAS

Office of Research and Innovation

November 2025
Issue 7

PATENTS		PUBLICATIONS	
JAN-NOV		JAN-NOV	
Filed	20	Scopus	406
Published	3	Total	765
Granted	12	Google Scholar	601
*Courtesy: OMS patents database		Citations	41246
		h-index	69
		* Researgence 2.0 reports	

EXTRA-MURAL GRANTS APPLIED				
Faculty	Jan-Oct	In Lakhs	Nov	In Lakhs
RINER	2	50.0	1	22.5
FDS	10	750.24	2	126.3
FLAHS	14	670.34	5	286.7
FNS	5	514.41	4	233.54
RCPT	3	212.61	-	-
ORI	7	601.64	-	-
RMC	10	251.84	-	-
ALC	1	10.00	-	-
FPH	2	69.09	-	-
FHMCT	2	28.97	-	-
SSS	6	543.37	2	148.4
FET	11	819.12	-	-
FMC	5	153.34	-	-



RESEARCH PUBLICATIONS

RESOURCE COMPENDIUM

2025

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ORCHID

GRANTS & FELLOWSHIPS NEWSLETTER

Issue 13
July 2025

OFFICE OF RESEARCH & INNOVATION

NEWS from ORI Desk

Dear RUAS Researchers,

The Anusandhan National Research fund (ANRF) call for proposals under the Advanced Research Grant (ARG) has a deadline of 7th July 2025. This aims to support high impact research in Fundamental Research (TRL 1-3) as well as Applied Research (TRL 1-6), in state of the art, engineering and medical sciences.

Earlier this month, two Centers of Excellence were officially launched at RUAS, bringing together an inter-disciplinary group of faculty members with subject expertise in Artificial Intelligence and Quantum computing (AI_QC) and in Bio-Medical Research (Central Bio-Medical Research group-CBMRI). Teams from both CoEs will be meeting periodically to foster active collaborations, student interactions, and enhancing the research ecosystem along these topics from RUAS.

Office of Research organized a session on, *Successful steps to commercialize inventions*, by OMS patents, on the 24th of June 2025, to enable inventors with solutions and connections to realise some of their inventions into products.

Faculty and research scholars witnessed indigenous Additive Manufacturing at AMACE Solutions Pvt. Ltd. and Advanced Machine Systems at ACE Micromatics Group, during an Industrial visit n the 28th of June 2025. Medical implants, Space and Aero engine parts, Ballistic missile and other Defence systems, were shown with advanced topology optimized designs in various metals.

- There will be an industrial visit planned every month, in order to foster industry academia collaborations. Do watch out for posts and feel free to join by writing to the Office of Research and Innovations.
- The second annual symposium of Research Scholars, "SHODH", will be held in August 2025. Do mark your calendars for the same.

Please use the GRANTS workflow for all submissions, for efficient and enhanced submissions from RUAS.

Please feel free to share grants and fellowship related information to the Office of Research at research@msruas.ac.in

