

Research & Development

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Research & Development Cell (RDC)

About the Research & Development Cell

The Research & Development (R&D) Cell is dedicated to fostering a culture of innovation, scientific inquiry, and interdisciplinary research in the field of pharmaceutical sciences. The cell acts as a bridge between academia and industry, encouraging students, faculty, and researchers to engage in cutting-edge research and contribute to advancements in healthcare and medicine. RDC functions as the central body for planning, promoting, coordinating, and monitoring all research and innovation activities of the institution. It aims to nurture a vibrant research culture that contributes to knowledge creation, innovation, societal development, and the vision of Atma-Nirbhar Bharat (Self-Reliant India).

Vision

To be a centre of excellence in pharmaceutical research and innovation, fostering scientific curiosity, interdisciplinary collaboration, and contributions to healthcare advancements that benefit society.

Mission

The mission of the Research & Development Cell is to create a conducive environment for enhanced research productivity, encourage collaboration with industry, government, academic institutions, and community organizations at national and international levels, and facilitate access to research funding and resources to support impactful and ethical research.

Objectives

The objectives of the Research & Development Policy are to:

- Promote a research-oriented academic environment
- Encourage interdisciplinary and translational research in pharmacy
- Identify thrust areas relevant to healthcare and pharmaceutical innovation
- Facilitate funding from government, industry, and other agencies
- Promote publications in reputed indexed journals
- Encourage patenting, technology transfer, and commercialization
- Ensure ethical and responsible research practices
- Build research capacity among faculty and students

Governance & Committees:

Research Advisory Council (RAC)

The governance of the Research & Development Cell ensures transparency, accountability, functional autonomy, and effective coordination. The RDC operates under the guidance of the **Research Advisory Council (RAC)**, headed by the Head of the Institution. The Director of RDC, a distinguished researcher, leads the planning and implementation of research activities through various committees constituted for specific functions such as research promotion, ethics, finance, intellectual property rights, and monitoring.

The Research Advisory Council (RAC) is the apex body overseeing research governance in the institution. The composition of the RAC is as follows:

Composition of Research Advisory Council (RAC)

Sl. No.	Name	Designation	Role in RAC	Affiliation
1	Dr. JVC.Sharma	Principal	Chairperson	Institution
2	Dr. V.Mohan goud	Associate Professor	Director – RDC	Institution
3	Dr.B.Maheshwari Reddy	Associate Professor	Member	Institution
4	Dr. M.Shyamala	Associate Professor	Member	Institution
5	Dr.Shanti Sagar	Associate Professor	Member	Institution

The RAC provides overall guidance and ensures alignment of research activities with institutional goals and regulatory requirements.

Research & Development Cell (RDC):

The RDC provides a single-window system for research administration within the institution. It facilitates planning, implementation, and monitoring of research activities and formulates institutional rules and policies related to research management, procurement, financial utilization, and dissemination of outcomes. The administrative framework supports seamless coordination among various research-related centers and cells within the institution.

Committees under Research & Development Cell

To ensure smooth functioning and effective monitoring of research activities, the following committees have been constituted under the RDC.

Committee Name	Chairperson	Members	Functions
Research Promotion Committee	Director– RDC	Dr.V.Mohan goud	Promote research, guide proposals
Institutional Ethics Committee	Professor	Dr.B.Maheshwari Reddy	Ensure ethical compliance
IPR & Patent Committee	Professor	Dr.Shanti Sagar	IPR awareness and patent filing
Research Monitoring Committee	Director – RDC	Dr.V.Mohan goud	Review progress
Finance Committee	Principal	Dr.JVC.Sharma	Financial oversight

All committees function under the supervision of the Director, RDC, and report to the Research Advisory Council.

Research Ecosystem and Collaboration (MoU)

The RDC fosters a vibrant research ecosystem by promoting collaboration among faculty, students, research organizations, industries, government agencies, and non-governmental organizations. The institution actively engages in national and international collaborations to encourage interdisciplinary and transdisciplinary research. Resource sharing, joint research initiatives, and academic exchanges are promoted to enhance research quality and societal impact.

Number of Functional MoUs with Institutions, Other Universities, Industries, Corporate Houses Etc for A.Y-2024-25

S. No.	Name of the institution/ industry/ corporate house with whom MoU is signed	Year of signing MoU	List of activities under each MoU
1	Nuvista Pharmaceuticals	2024	Research collaborations
2	Bell Pharmaceuticals	2024	Research collaborations
3	PharmaDeep Pharmaceuticals	2025	Placements , Industrial visits and Internships
4	SRK Laboratories	2024	Placements and training
5	Teks Academy	2024	Research collaborations
6	Solutions 3X	2024	Placements , Industrial visits and Internships
7	Glochem Industries Private Ltd.	2024	Career guidance, internships, webinars, conferences, FDPs
8	Sodium Drugs and Pharmaceutical Pvt. Ltd	2024	Placements , Industrial visits and Internships
9	S.S. Pharma Labs Pvt. Ltd	2024	Placements , Industrial visits and Internships
10	3DFying	2025	Career guidance, internships, webinars, conferences, FDPs
11	Genesis Research Labs	2025	Career guidance, internships, webinars, conferences, FDPs
12	Dattakala Shikshan Santha's Institute of Pharmaceutical Science and Research	2024	Research collaborations

Research Thrust Areas

The institution has identified key research thrust areas based on societal needs, institutional strengths, faculty expertise, and available infrastructure. These thrust areas guide focused research initiatives and enable the development of Centers of Excellence. The RDC encourages the formation of research clusters and consortia to undertake high-impact collaborative research projects.

Identified Research Thrust Areas

The Research & Development Cell at JBRPC is established to foster innovative pharmaceutical research and create a robust platform for drug discovery, formulation development, and

translational research. The cell serves as a bridge between academia, industry, and healthcare sectors, ensuring that research outcomes have meaningful scientific and societal impact.

The R&D Cell emphasizes interdisciplinary research, integrating fields such as pharmaceutical analysis, drug delivery, pharmacology, herbal drug research, and pharmacovigilance. Our aim is to develop novel formulations, screen bioactive compounds, and ensure quality, efficacy, and safety of pharmaceutical products.

1. Drug Delivery Systems

The Drug Delivery Systems thrust area focuses on designing and developing innovative formulations to enhance therapeutic efficacy, patient compliance, and drug safety. Research here integrates nanotechnology, polymers, and controlled release strategies to deliver drugs precisely where they are needed.

Research Focus:

- Development of sustained and controlled release formulations.
- Design of targeted drug delivery systems using nanoparticles, liposomes, and micelles.
- Application of biodegradable polymers and advanced materials for site-specific delivery.
- Translational research for personalized medicine applications.

Facilities & Instruments:

- Formulation and drug delivery laboratories.
- High-resolution particle size analyzers.
- Dissolution and release testing instruments.
- Nanoparticle synthesis and characterization equipment.

Services:

- Design and development of novel drug delivery systems.
- Collaborative research with industry partners.
- Student training in formulation and drug delivery techniques.

Strengths:

- Advanced instrumentation for nanomedicine and controlled release research.
- Experienced faculty mentoring interdisciplinary projects.
- Strong focus on translational and patentable research.

2. Pharmaceutical Analysis

The Pharmaceutical Analysis thrust area ensures quality, safety, and regulatory compliance of pharmaceutical products. Research focuses on analytical method development, validation, and standardization.

Research Focus:

- Development of robust analytical methods using HPLC and UV-Vis spectroscopy.
- Stability and impurity studies of drug substances and formulations.
- Quality assurance and compliance with national and international pharmacopoeial standards.
- Analytical support for formulation development, bioequivalence, and regulatory submissions.

Facilities & Instruments:

- Analytical laboratories with advanced chromatography and spectroscopy instruments.
- Stability chambers and dissolution testing units.
- Spectrophotometers, polarimeters, and pH meters.

Services:

- Analytical testing and validation services for academic, industrial, and research clients.
- Guidance on regulatory compliance and quality control.
- Student training in analytical techniques and method development.

Strengths:

- Sophisticated instrumentation for pharmaceutical analysis.
- Expertise in method development and regulatory standards.
- Focus on reproducible, high-quality, and publishable research.

3. Herbal Drug Research

Herbal Drug Research focuses on exploring plant-derived compounds for therapeutic potential and formulation development. This area integrates traditional knowledge with modern scientific methods.

Research Focus:

- Standardization and quality assessment of herbal extracts.
- Phytochemical screening and pharmacological evaluation of bioactive compounds.
- Development of herbal formulations such as tablets, capsules, and nutraceuticals.
- Investigating synergistic effects of herbal compounds with modern drugs.

Facilities & Instruments:

- Phytochemistry laboratories.
- Extraction, isolation, and chromatographic analysis instruments.
- Bioassay setups for herbal screening.

Services:

- Screening and development of herbal products.
- Student-led research projects and internships.
- Collaborative research with herbal product industries.

Strengths:

- Strong integration of traditional knowledge and modern techniques.
- Advanced phytochemical and pharmacological evaluation capabilities.
- Focus on evidence-based herbal drug development.

These thrust areas guide focused research initiatives and interdisciplinary collaborations.

Faculty Research Profile

The research strength of the institution is built upon the expertise, experience, and scholarly contributions of its faculty members. The institution encourages faculty to actively engage in research, innovation, consultancy, and interdisciplinary collaboration in the field of pharmaceutical sciences. Faculty members contribute to knowledge creation through funded projects, publications, patents, and mentorship of student research. Their research profiles are aligned with the institutional research thrust areas and are periodically reviewed by the Research & Development Cell to ensure continuous improvement and relevance. The institution is supported by qualified faculty members actively engaged in research.

Faculty Research Expertise:

Faculty Name	Department	Area of Expertise
Dr. G.Lakshmi Devi	Pharmaceutics	NDDS
Dr. B.Maheshwari Reddy	Pharmacology	Toxicology
Dr. V.Mohan Goud	Analysis	Analytical Methods
Dr.JVC.Sharma	Pharmacognosy	Herbal Drugs

Research Promotion and Guidance

The institution shall encourage faculty and students to undertake research through:

- Research methodology and skill development programs by conducting workshops and Training programme
- Guidance for proposal preparation and submission
- Support for interdisciplinary and collaborative research
- Seed funding for early-stage research
- Access to laboratories, instrumentation, and digital resources

Research Information Management System (RIMS)

The institution maintains a Research Information Management System to document and manage information related to research projects, publications, patents, collaborations, fellowships, and innovations. The RDC ensures the maintenance of an institutional repository.

Research Publication

Faculty and students regularly publish research findings in reputed journals

PUBLICATIONS 2024-25:

S. No	Name of the Faculty/Student	Title of the Paper	Journal Name & Indexing	Volume , page numbers & Year of Publication
1	Dr. B. Maheshwari Reddy, Soha Fatima, Aqsa Fatima, K. Asma, Dr. Ch. B. Praveena Devi	Knowledge, Attitude and Practice on Over the counter drugs and cosmeceutical usage among pharmacy students: A facility-based cross-sectional study	International Journal of Biology, Pharmacy and Allied Sciences (IJPBAS) (UGC Approved, Web of Science Indexed)	Vol 13, Issue 10, 2024
2.	Dr. B. Maheshwari Reddy, P. Sai Divya, K. Shravani, SK Sushmataj, Dr. Ch. B. Praveena Devi	Educational Status and Knowledge level of pre and post menopausal women about osteoporosis and risk factors: A questionnaire based survey	International Journal of Zoological Investigations (IJZI) (UGC Approved, Web of Science Indexed)	Vol 10, Issue 2 2024
3.	Dr. B. Maheshwari Reddy, Dr. Ch. B. Praveena Devi, SK Sushmataj, G. Pavan Raj	Evaluation of anti-depressant activity of <i>Nerium Indicum</i> in Chronic unpredictable stress induced depression	International Journal of Zoological Investigations (IJZI) (UGC Approved, Web of Science Indexed)	Vol 10, Issue 1 2024
4.	K. Aarthi, Dr. Ch. B. Praveena Devi M. Anjali, P. Saisharanya, V. Akhila, Dr. B. Maheshwari Reddy	Viral Conjunctivitis and its ocular complications	International Journal of Zoological Investigations (IJZI) (UGC Approved, Web of Science Indexed)	Vol 10, Issue 2 2024
5.	Dr. B. Maheshwari Reddy, G. Pavan Raj, M. Harshdeep, Dr. Ch. B. Praveena Devi	Knowledge, awareness on the use of antibiotics and probiotics in adults: A cross-sectional study	International Journal of Biology, Pharmacy and Allied Sciences (IJPBAS)	Vol 13, Issue 12 2024

			(UGC Approved, Web of Science Indexed)	
6.	Dr. B. Maheshwari Reddy, AP Chary, G. Praveen Kumar, Dr. Ch. B. Praveena Devi	Anti-mitotic and Anti-proliferative activity of leaves of <i>Caesalpinia Pulcherrima</i>	International Journal of Biology, Pharmacy and Allied Sciences (IJPBAS) ISSN: 2277-4998 (UGC Approved, Web of Science Indexed)	Vol 13, Issue 12, 2024
7.	B N Lakshmi Devi,	Design, Synthesis, Biological and Docking Studies of Novel 6 fluorobenzothiazole Substituted Anti-inflammatory Agent 1, 2, 4-Triazole Analogues as Prospective.	Egyptian Journal of Chemistry (UGC Approved, Scopus, Web of Science Indexed)	Vol 67, Issue 12, 2024,
8.	Dharmendra Bhati, Padmini Shukla, Prabodh Shukla, B N Lakshmi Devi	Fused and Substituted Pyrimidine Derivatives as Potent Anti-Cancer Agents	Biochemical Cell Archives, (UGC Approved, Scopus, Web of Science Indexed)	Vol 24, Issue 1,2024
9	B N Lakshmi Devi	Semisynthetic Derivatization of Chloramphenicol And In Vitro Study Of Its Broad Spectrum Antimicrobial ActivitY	African journal of Biological sciences (UGC Approved, Scopus)	Vol.6, Issue-14, 2024.

PUBLICATIONS 2025-26

S. No	Name of the student/Faculty	Title of the Paper	Journal Name & Indexing	Volume, page numbers & Year of Publication
1	Fathima F, Afreen A, Dr.CH. B. Praveena Devi and Dr. Maheshwari B	Uterine fibroids: pathogenesis, epidemiology and its clinical manifestations on human endometrium functioning	International Journal of Biology, Pharmacy and Allied Sciences (IJPBAS) (UGC Approved, Web of Science Indexed)	Vol 14, Issue 1, 2025,
2	T. Srividya, B. Himavarshini, Ch. B. Praveena Devi* B. Maheshwari	Measuring the prevalence and impact of menstrual Health: a quantitative clinical survey	International Journal of Biology, Pharmacy and Allied Sciences (IJPBAS) UGC Care-Group II and WOS Indexed	Vol 14, Issue 3, 2025,

3	Mrs. G. Lakshmi Devi Raghuveer Pathuri,	Development and Optimization of a Self-Nanoemulsifying Drug Delivery System (SNEDDS) for Enhanced Oral Delivery of Dolutegravir	Journal of Pharmaceutical Innovation UGC Care-Group II SCOPUS Indexed	Vol 20, Issue 2, 2025
4	Shyamala , Gunjan Limani, Janvi Chauhan2, M Chavan,	Development and Validation of analytical method for Anticancer drug Cyclophosphoamide by UPLC	Journal of Neonatal Surgery SCOPUS Indexed	Vol 14, Issue 12, 2025
5	Pragathi Reddy Gunnam , Vinyas Mayasa , Lokesh kuma	Characterization of Alcohol Use Disorder using Alcohol Use Disorder Identification Test (AUDIT) - A Prospective, Observational Study	Texila International Journal of Public Health SCOPUS Indexed	Vol 13 Issue 1, 2025
6	Mohan Goud Vanga, Sarad Pawar Naik Bukke, Praveen Kumar Kusuma, Bayapa Reddy Narapureddy	Integrating green analytical chemistry and analytical quality by design: an innovative approach for RP-UPLC method development of ensifentrine in bulk and inhalation formulations	BMC Chemistry SCOPUS Indexed	Vol 19 Issue 70, 2025
7	Singireddy Anand Reddy Pola, Dr. Kranthi Kumar and Pulla Udaya Chandrika	An Overview on Tyrosine Kinase Inhibitor Gefitinib drug delivery systems for enhanced treatment of cancer	Biosciences Biotechnology Research Asia UGC Care-Group II and WOS Indexed	Vol 22, Issue 1, 2025
8	Shanti sagar , Nerella Mounika , Ramgopal appani, Rajeshwar Vodeti	Bio Analytical Method for Quantitative Estimation, Pharmacokinetic and Bioequivalence Study of Nizatidine Novel Raft Gastro Retentive Formulation Using Reversed-Phase High-Performance Liquid Chromatography	Asian Journal of Pharmaceutical and Clinical Research SCOPUS Indexed	Vol 18, Issue 6, 2025
9	B. Maheswari Reddy , AVSSS Gupta, Nikitha C, Supriya E, B. Saloni Reddy and Shahid SM	Pityriasis Versicolor: A Few New Aspects on Etiology, Pathogenesis, And Treatment	International Journal of Biology, Pharmacy and Allied Sciences UGC Care-Group II and WOS Indexed	Vol 14, Issue 3, 2025
10	Akash Koley, Dr. Pallavi Tiwari, V S S S Gupta	The Potential Therapeutic Role of EGCG	Journal of Neonatal Surgery SCOPUS Indexed	Vol. 14, Issue 23s (2025)

	Atyam , Devender Sharma, Ayan Mukherjee , Dr. Neeli Rose	(Epigallocatechin-3-Gallate) in Diabetes Progression		
11	Lakshmi Devi Gottemukkula, Raghuveer Pathuri, Sunitha Sampathi	Dolutegravir Solid Dispersions as Oro-Dispersible Tablets: To Ameliorate the Integrase Inhibition Effect	Indian Journal of Pharmaceutical Education and Research SCOPUS Indexed	Vol,59(3s):s863-s873, 2025
12	Dr. Kranthi Kumar	Analytical quality by design Based Robust RP-HPLC Method For Estimation of Setracanozole in Bulk and Tablet Formulation- Method Development and Validation	Research Journal of Pharmaceutical Technology (RJPT) SCOPUS Indexed	Vol 18(9),2025
13	Dr.B.Maheswari, Rajeshwar Vodeti	Comprehensive Computational Neuropharmacological Insight into Rynochotechum Ellipticum: Molecular Docking, Molecular Dynamics, and Pre-ADMET Analysis	Advanced Journal of Chemistry, Section A SCOPUS Indexed (Q2 Journal)	Vol 8 (12), 2025
14	Naeem Shalan, Jorepalli Sumalatha , Shyamala Mudavath	Comprehensive Computational Screening of 2-(2-(5-phenyl-1Htetrazol-1-yl)ethyl)-1,2-thiazetidine 1,1-dioxide Derivatives as Potential Agents for Next-Generation Antibiotic Combating Drug-Resistant Community-Acquired Bacterial Pneumonia (CABP)	Advanced Journal of Chemistry, Section A SCOPUS Indexed (Q2 Journal)	Vol 8 (11),2025
15	Abida Khan , Ashwin Kumar, A , V S S S Gupta Atyam	Clinical Efficacy of Cannabinoids in PTSD Management: A Systematic Review Overcoming Limitations of Prior Evidence	Biomedical Sciences and Clinical Medicine SCOPUS Indexed	Vol 64(4), 2025
16	Munesh Mani, Preeti Shrivastava, Koppula Maheshwari,	Physiological and behavioural response of guinea pig (<i>Cavia porcellus</i>) to gastric floating <i>Penicillium griseofulvum</i> : An in vivo study	Journal of experimental zoology India SCOPUS Indexed	Vol 28 (2), 2025

17	Dr. CH. B. Praveena Devi, P. Sai Sharanya, M. Anjali, V. Akhila, K. Aarthi.	Poly Cystic Ovarian Disorder- Etiology, Current Management, and Future Therapeutics.	International Journal of Zoological Investigations, UGC-CARE and Web of Science-Emerging Sources Citation Indexed Journal.	Vol. 11, No. 2,2025
18	Dr. CH. B. Praveena Devi, B. Maheshwari, Rabia Erum, Veena. G.	Revolutionizing Healthcare: Exploring the Latest Breakthroughs in Immunotherapy Advancements.	International Journal of Zoological Investigations, UGC-CARE and Web of Science.	Vol. 11, No. 2,2025
19	Pragathi Reddy Gunnam, Pavan Raj Goud Guggilla, Sai Sharanya Mandala, Dr. Shailesh Mohan Badole	A Prospective Study on The Risk Factors, Toast Classification and Management of Acute Ischemic Stroke In A Tertiary Care Centre	Asian Journal of Pharmaceutical and clinical research SCOPUS Indexed	Vol 18, Issue 11,2025
20	Lakshmi Devi Gottemukkula, Raghuvir Pathuri	Soluplus® based Amorphous Solid Dispersions: An Experimental Approach to Ameliorate the Solubility and Anti-Retroviral Integrase Activity of Dolutegravir in Rabbits	International Journal of Pharmaceutical Sciences and Nanotechnology, Scopus Indexed	Vol. 18 No. 6, 2025
21	Dr.B.Maheswari, Rajyalakshmi devi	Investigating the role of probiotics and short-Chain fatty acids (Scfas) Inmodulating leptin for improved anti-Diabetic effects in streptozotocin- Nicotinamide induced type 1 diabetes in rats	International Journal of Applied Pharmaceutics SCOPUS Indexed	Vol 17, Issue 6, 2025,

Patents Filed / Granted

The institution encourages protection of intellectual property generated through research.

Patent Publications.

S. No	Name of the Faculty	Title of the Patent Publication	Application Number	Date
1	BN Lakshmi Devi	Single Column-Dry Column Vacuum Chromatography Apparatus	410791-001	18-03-2024
2	Gera. Jemimah	Detection of Heart Failure By Using Advanced Machine Learning And Artificial Intelligence Techniques	202421021126 A	19/04/2024
3	Saba Shafeen	Analysis and Uses of Dxa Bone Density Scans In The Diagnosis And Treatment Of Osteoporosis	202411047880 A	05/07/2024
4	Mrs. Gottemukkula Lakshmi Devi	Drug Dissolution Testing Apparatus for Pharmaceutical Industry	6357928	16-04-2024
5	Dr. V. Mohan Goud	RP-UPLC method for estimation of bexagliflozin in pharmaceutical dosage form and stability thereof	202421031199 A	17-05-2024
6	Ms K Maheswari	Formulation And In Vitro Evaluation of Viloxazine Capsules For The Treatment of Hyperactivity Disorder	202421031199 A	17-05-2024
7	Dr. V. Mohan Goud	RP-UPLC method for estimation of bexagliflozin in pharmaceutical dosage form and stability thereof.	202441058239 A	09-08-2024
8	Mrs. P. Sirisha	Stability Indicating RP-UPLC Method for Estimating Iptacopan In Pharmaceutical Dosage Form and Uses Thereof	202441085726 A	15/11/2024
9	Dr. Shanti Sagar	Green synthesis, characterization and evaluation of potential antidiabetic activity of Cassia Auriculata. L extract mediated nanoparticles	202441099152 A	20-12-2024
10	Dr. Shanti Sagar	A Pharmaceutical Composition of Melaphalan Niosomal Suspension For The Cancer Treatment.	202441103005 A	03/01/2025

11	Dr. V. Mohan Goud	A robust and sensitive HPLC method for analysis of Ketorolac and Phenylephrine: Development, Validation, and Regulatory Compliance, India.	202541003572 A	24-01-2025
12	BN Lakshmi Devi	Device for Nanoparticle based drug delivery in treatment of breast cancer	446535-001	03-02-2025
13	Dr. P. Kranthi Kumar	Development and in vitro evaluation of diacerein loaded transfersomal gel for topical application in osteoarthritis treatment	202541015141 A	07/03/2025
14	Mrs. P.Moulika	Cytotoxic Activity of Sesbania grandiflora Seed Extract and Ziziphus mauritiana Leaf Extract Against Human Pancreatic Cancer and Acute Leukemia Cell Lines	202441101770 A	03/01/2025
15	Mrs. I. Mamatha	Floating Pulsatile Drug Delivery System for Methylphenidate HCl with Optimized Lag Time and Controlled Release: Formulation and In Vitro Evaluation	202541005387 A	31/01/2025
16	Dr. V. Mohan Goud	RP-HPLC Method for simultaneous estimation of Aspirin and Ethoheptazine citrate in bulk and tablet dosage form and their uses thereof.	202541009023 A	14/02/2025
17	Dr. Shyamala	Patent on Automated Isothermal titration calorimeter	446429-001	21/02/2025
18	I.Mamatha	Floating Pulsatile Drug Delivery System for Methylphenidate HCl with Optimized Lag Time and Controlled Release: Formulation and In Vitro Evaluation	202541005387 A	31/01/2025
19	Bindusha Reddy	AI Based Device For Detection of Cardiac Biomarkers	447816-001	12/02/2025
20	Dr. Pragathi Reddy	Medical device for measurement of nano formulation in treatment of cancer (Design Patent)	6416042	11/3/2025
21	Dr. Ashraf Khan	Development And In Vitro Evaluation Of Diacerein Loaded Transfersomal Gel For Topical Application In Osteoarthritis Treatment	202541015141 A	07/03/2025

Finance and Resource Mobilization

The Research & Development Cell facilitates the mobilization of research funding from government agencies, industries, corporate social responsibility (CSR) initiatives, and other funding bodies. The institution makes provisions for research funding in its annual budget and encourages seed funding to support early-stage research and innovation activities.

Integrity and Ethics in Research

The RDC is committed to upholding the highest standards of research integrity and ethics. It ensures compliance with ethical guidelines, plagiarism prevention, and responsible research conduct. The institution mandates plagiarism checks for all research work and sensitizes researchers about ethical publishing practices and avoidance of predatory journals.

Research Monitoring and Quality Assurance

The Research & Development Cell continuously monitors research progress to ensure timely completion and adherence to quality benchmarks. It conducts internal reviews and quality assessments to promote publication in reputed journals indexed in **Scopus, Web of Science, and UGC-CARE**. The RDC also ensures compliance with Good Laboratory Practices and safety standards.

Research Incentives and Awards

The institution recognizes that incentives and recognition play a vital role in motivating faculty members and students to engage in high-quality research. The Research & Development Cell encourages excellence in research by acknowledging significant scholarly contributions such as quality publications, funded research projects, patents, innovations, and research-based teaching practices. Incentives and awards are instituted to promote a strong research culture and to encourage sustained academic and scientific excellence in pharmaceutical research.

Integrity and Ethics in Research

The institution is committed to upholding the highest standards of integrity, transparency, and ethical conduct in all research activities. Researchers are expected to follow ethical principles and responsible research practices at institutional, national, and international levels. The Research & Development Cell sensitizes faculty and students about ethical research conduct, responsible authorship, and avoidance of unethical and predatory publishing practices.

Plagiarism Policy

The institution strictly adheres to the plagiarism prevention guidelines issued by the University Grants Commission. All research work including dissertations, theses, project reports, and manuscripts is subjected to plagiarism checking using approved plagiarism detection software. Faculty members and students are regularly made aware of plagiarism norms, acceptable similarity limits, and proper citation practices to ensure originality and academic honesty.

Institutional Ethics Committee

The Institutional Ethics Committee functions to ensure that all research involving human participants, animals, biological materials, or sensitive data is conducted in accordance with ethical and regulatory standards. The committee reviews research proposals, provides ethical clearance wherever required, and monitors compliance throughout the research process. The committee operates independently and ensures protection of participant rights, safety, and confidentiality in pharmaceutical and healthcare research.

Capacity Building

The RDC actively contributes to capacity building by organizing refresher courses, training programs, internships, workshops, seminars, and conferences. These initiatives aim to enhance research skills, promote innovation, and improve the institution's research output, accreditation performance, and global visibility.

