



CSJMU PROJECT COMPENDIUM 2024-2025

OFFICE
PROJECTS AND
EXTERNAL RESOURCE
GENERATION

*Chhatrapati Shahu Ji Maharaj
University
Kalyanpur, Kanpur-208024
UP, India*



**Honorable Chancellor &
Governor
Smt. Anandiben Patel**



**Honorable Vice Chancellor
Prof. Vinay Kumar Pathak**

"Igniting Minds, Fueling Research, Shaping the Future"

Our Source of Inspiration

Our Honorable Chancellor and Governor Smt. Anandiben Patel's boundless love and deep compassion for children and girls reflect the very heart of her leadership. She inspires us all at CSJMU, not just through her words but through her unwavering commitment to uplifting and empowering the future generation.

Her visionary guidance has strengthened our academic and research initiatives, fostering an environment where students and faculty alike strive for excellence and innovation.

We are profoundly grateful to Honorable Chancellor Madam for her constant encouragement and heartfelt support. Her dedication fuels our collective spirit and reminds us every day of the power of kindness, strength, and perseverance in shaping brighter futures.

A Compassionate Embrace: Honoring the Heart of Leadership



Message from the Vice Chancellor



Prof. Vinay Kumar Pathak

Vice Chancellor

Chhatrapati Shahu Ji Maharaj University, Kanpur

It gives me immense pleasure to present this booklet, which provides a comprehensive overview of the research projects undertaken by the faculty and researchers at Chhatrapati Shahu Ji Maharaj University. This compilation highlights faculty profiles, their research expertise, and detailed analyses of projects that have been successfully funded through prestigious schemes such as ANRF, DST, DBT, UP CST, UP COE, and UP R&D. These projects reflect the ingenuity, dedication, and scholarly excellence of our researchers, and demonstrate how academic inquiry can translate into societal benefit. From advancements in health, science, agriculture, and technology to addressing pressing social and environmental challenges, these initiatives showcase the power of research to uplift communities and drive innovation.

CSJMU is committed to nurturing a culture of research and innovation, exemplified by the C.V. Raman Major and Minor Research Grants, which provide our faculty with resources to pursue translational, interdisciplinary, and societal research. Combined with extramural funding, these initiatives empower our researchers to explore new ideas, generate impactful knowledge, and create solutions that enhance both the university's standing and the well-being of society.

I would like to especially appreciate the efforts of the Project Cell, led by Dr. Anuradha Kalani and her team, for their dedicated coordination and successful compilation of project data. I congratulate all the researchers featured in this booklet and hope their work continues to inspire, innovate, and make a meaningful difference, setting a strong foundation for future generations of scholars at CSJMU.

Convocation marks not just a culmination of academic journeys but also a celebration of knowledge creation. The research contributions of our faculty reaffirm CSJMU's vision of becoming a hub of innovation and societal transformation.

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Pro-Vice Chancellor's Message



Prof. Sudhir Kumar Awasthi

*Dean, Faculty of Life Sciences & Pro-Vice Chancellor
Chhatrapati Shahu Ji Maharaj University, Kanpur*

It gives me immense pride to present this compilation of research achievements from Chhatrapati Shahu Ji Maharaj University (CSJMU). This booklet reflects the relentless efforts of our faculty and researchers who have secured prestigious grants and contributed significantly to advancing knowledge across diverse domains.

Research is the cornerstone of academic excellence and societal development. At CSJMU, we are committed to fostering an environment that promotes inquiry, innovation, and collaboration. The projects highlighted here, funded by eminent agencies such as DST, DBT, ANRF, UP CST, and others, demonstrate our dedication to impactful research that addresses critical challenges in science, technology, health, agriculture, and social development.

The accomplishments showcased in this booklet underline the growing research culture at our university. They not only elevate the academic profile of CSJMU but also create solutions with meaningful societal outcomes. We envision strengthening this culture further by encouraging interdisciplinary work and building robust partnerships with national and international research organizations.

On this significant occasion of the convocation, I extend my heartfelt congratulations to all faculty and researchers whose dedication and innovation have enriched the academic and research profile of our university. Your achievements serve as an inspiration for future generations to pursue knowledge and contribute meaningfully to society.

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Dean, Projects and External Resource Generation's Message

Dr. Anuradha Kalani

*Associate Professor and Dean, Projects and External
Resource Generation
Chhatrapati Shahu Ji Maharaj University, Kanpur*

It gives me great pleasure to present this booklet, which provides an overview of the research projects undertaken by our faculty and researchers at CSJMU. Compiling and organizing the data for these projects has been a rewarding experience, and I am proud of the dedication and teamwork that went into making this publication possible.

I would like to applaud our Project Cell team for their tireless efforts, meticulous attention to detail, and commitment in bringing together this comprehensive record of our research activities. It is my hope that this booklet will showcase the innovation, impact, and excellence of CSJMU's research community and inspire continued exploration and collaboration.

I congratulate all the researchers featured in this booklet and hope their work continues to inspire, innovate, and create meaningful societal impact, further strengthening CSJMU's research ecosystem.



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CSJMU

WHERE KNOWLEDGE
MEETS DISCOVERY

Chhatrapati Shahu Ji Maharaj University,
Kanpur



Founded in 1966, Chhatrapati Shahu Ji Maharaj University (CSJMU), Kanpur, stands as one of the largest and most vibrant universities in North India. True to its motto "*Aroh Tamso Jyoti*" – *Rise from Darkness to Light* – the University has consistently advanced the frontiers of education, research, and societal transformation. With over 2,75,000 students enrolled annually across more than 170 affiliated colleges, CSJMU is not only a hub of higher education but also a catalyst for regional and national progress.

CSJMU has earned recognition as a NAAC A++ and UGC Category-I institution, reinforcing its commitment to academic excellence and quality benchmarks at par with global standards. The University envisions nurturing individuals who are not only professionally competent but also socially responsible and globally aware. Its mission is anchored in fostering innovation, inclusivity, and interdisciplinary engagement to address real-world challenges.

While teaching remains a strong pillar, CSJMU has equally established itself as a growing research powerhouse. Faculty members across disciplines have successfully secured over ₹3.5 Crore in competitive research grants from leading agencies such as DST, DBT, ICSSR, CST-UP, and ANRF. Beyond external recognition, the University has launched its flagship C.V. Raman Minor (₹2 lakh) and Major (₹5 lakh) Research Grants to empower faculty with seed funding, igniting innovation from within.

The research culture thrives across domains, from fundamental sciences and biomedical research to social sciences, law, management, and humanities, ensuring that knowledge creation directly impacts society. Cutting-edge faculty and student projects are increasingly multi-institutional, with partnerships forged with IIT-Kanpur, ICMR, industries, and international collaborators. The University also hosts recipients of prestigious fellowships such as DST-Inspire, Ramalingaswami, and Early Career Research Awards, further cementing its stature as a research-driven institution.

CSJMU's vision is clear, to emerge as a globally recognized center for innovation and research while continuing to serve the academic and societal needs of India. Its future roadmap aligns with global higher education goals: scaling interdisciplinary collaborations, strengthening translational research, and contributing to sustainable development. By enabling both faculty and students to lead in discovery and application, CSJMU is steadily crafting a legacy of excellence, empowerment, and impact.

Year's Highlight: ANRF-PAIR Grant Success

National Recognition: CSJMU Secures Prestigious ANRF-PAIR (Category B) Grant in Collaboration with IIT- Kanpur



This year, Chhatrapati Shahu Ji Maharaj University (CSJMU) proudly secured the prestigious ANRF–PAIR Grant (Category B), a historic first for the University and a transformative step in its research journey. In collaboration with IIT–Kanpur, this recognition positions CSJMU among the select institutions in India driving cutting-edge, interdisciplinary research with real-world impact. *The awarded project focuses on pioneering cancer research through exosome biology and advanced semiconductor-based biosensing technologies. By integrating life sciences with engineering innovations, the initiative aims to develop next-generation diagnostic platforms and innovative therapeutic strategies capable of detecting and monitoring cancer biomarkers with unprecedented precision and sensitivity.*

The project is spearheaded by **Dr. Anuradha Kalani (Project Director, CSJMU)**, and a stellar team of **Principal Investigators: Dr. Rajeev Mishra, Dr. Shilpa D. Kaisha, and Dr. Chandresh Sharma from the School of Life Sciences & Biotechnology (SLSBT), and Dr. Vishal Awasthi and Dr. Ajeet Kumar Srivastava from the University Institute of Engineering and Technology (UIET), CSJMU.** Together, this powerhouse team is ready to shape CSJMU's research trajectory with innovative, solution-oriented science.

A National Milestone

The award stands as testimony to CSJMU's rising national stature in research and innovation, demonstrating the University's ability to forge impactful partnerships, attract competitive funding, and deliver research of societal significance.

Looking Ahead – Category A Aspiration

Building on this success, CSJMU is now ambitiously preparing for the next ANRF–PAIR cycle, setting its sights on Category A recognition. This bold step will elevate CSJMU into the top league of Indian research institutions, amplifying its role in frontline discoveries, global collaborations, and innovations that impact society at large.

An aerial photograph of the CSJMU campus, showing various academic buildings, a central green courtyard, and surrounding greenery. The text 'RESEARCH GRANTS' is overlaid in large, bold, black letters.

RESEARCH GRANTS

CSJMU Researchers Making an Impact
2024-2025 &
2025-2026 (*till Sept. 2025)**

Celebrating the pioneering spirit of CSJMU faculty, this section showcases those who have been awarded research grants in 2024–2025. Their innovative work and dedication to advancing knowledge continue to strengthen the university's reputation as a hub of excellence and discovery.



PROFILE

Dr. Dipesh K Verma is an expert in structural biology and protein biochemistry. He earned his Ph.D. from the Institute of Microbial Technology, Chandigarh and completed a postdoctoral fellowship at Upstate Medical University, New York. He has 14 SCI-indexed publications in reputed journals and has presented his work at international conferences in India and the USA. A reviewer for Bio-protocol, his research interests include drug discovery, drug repurposing, and studying protein localization in photoreceptor cells using advanced microscopy.

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OUR RESEARCH TRAILBLAZERS

DR. DIPESH KUMAR VERMA

ASSISTANT PROFESSOR, SCHOOL OF LIFE
SCIENCES AND BIOTECHNOLOGY



FUNDING AGENCY: ANRF-ECRG

Project Title: *"Understanding Rhodopsin's Critical Role in the Maintenance of Photoreceptor Structure in Retinitis Pigmentosa"*

Short highlight: Dr. Dipesh Verma has been awarded the Prime Minister Early Career Research Grant (ANRF-ECRG) for his study on photoreceptor biology and retinitis pigmentosa. His research will investigate protein distribution and transport in photoreceptor cells using the frog model to uncover mechanisms behind this rare retinal disease. The grant will support high-impact publications, advanced research, and exploration of potential therapies, marking a significant milestone in his contributions to vision science.

COLLABORATIONS

NA

AMOUNT SANCTIONED FOR THE PROJECT

₹ 6,000,000 /-



PROFILE

Dr. Rashmi Dubey earned her Ph.D. in Applied Chemistry from CSJM University, Kanpur, and joined the university as faculty in 2008. She brings over 18 years of teaching experience delivering UG, PG, and M.Phil. coursework. Under her mentorship, 32 M.Phil. students have successfully completed their degrees. Her expertise lies in polymer chemistry and its modification, along with innovative effluent treatment using biomaterials. She is an active academic, regularly attending and participating in seminars and webinars. Dr. Dubey is dedicated to integrating cutting-edge biomaterials into environmental solutions and advancing wastewater treatment methodologies.

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OUR RESEARCH TRAILBLAZERS

DR. RASHMI DUBEY

ASSISTANT PROFESSOR, DEPARTMENT OF
CHEMISTRY



FUNDING AGENCY: CST-UP (2025-2026)

Project Title: *"Synthesis and Application of Graphene based Fenugreek Crosslinked Hydrogels for Advanced Wastewater Treatment."*

Short highlight: Dr. Rashmi Dubey, in her project on "Synthesis and Application of Graphene-Based Fenugreek Crosslinked Hydrogels for Advanced Wastewater Treatment," aims to develop eco-friendly hydrogels that combine graphene and natural polymers. These innovative materials will enhance pollutant adsorption and stability, providing a sustainable alternative to conventional treatment methods. The study leverages nanotechnology and biopolymers to deliver advanced solutions for water purification.

COLLABORATIONS

Dr. Praveen Bhai Patel
Co-PI
Associate Professor
Chemical Engineering
University Institute of Engineering and Technology

AMOUNT SANCTIONED FOR THE PROJECT

₹ 16,86,000 /-



PROFILE

Dr. Madhulika Singh is an accomplished botanist and plant biotechnologist whose academic journey began in Varanasi (BHU), advancing through Ph.D. and postdoctoral work, and now contributing significantly as a faculty member at CSJMU. Her focus on plant tissue culture, stress tolerance, and metabolite production, coupled with recognized research excellence and professional affiliations, marks her as a leading figure in her field.

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OUR RESEARCH TRAILBLAZERS

DR. MADHULIKA SINGH

ASSISTANT PROFESSOR, SCHOOL OF LIFE
SCIENCES AND BIOTECHNOLOGY



FUNDING AGENCY: CST-UP (2025-2026)

Project Title: "Production of Bioactive Chemical Compounds through Callus Culture of a Medicinal Herb : *Ocimum basilicum citriodorum*."

Short highlight: Dr. Madhulika Singh, in her project on "Production of Bioactive Chemical Compounds through Callus Culture of a Medicinal Herb: *Ocimum basilicum citriodorum*," will explore the potential of callus culture for sustainable synthesis of medicinally important metabolites, aiming to enhance pharmaceutical applications and reduce dependence on whole-plant extraction.

COLLABORATIONS

Dr. Praveen Bhai Patel
Co-PI
Associate Professor
Chemical Engineering
University Institute of Engineering and Technology

AMOUNT SANCTIONED FOR THE PROJECT

₹ 16,86,000 /-



PROFILE

Dr. Rajeev Mishra earned his Ph.D. from CSIR-CDRI, Lucknow, and CSJM University, Kanpur, focusing on improving therapeutic efficacy of natural and existing drugs in cancer models. He pursued postdoctoral research at Nihon University, Japan, and Cedars Sinai Medical Center, USA, studying novel molecules targeting MMP-9 and MYC and the tumor microenvironment. In 2018, he joined Manipal University Jaipur as an Assistant Professor, establishing the Cancer Research Laboratory. With 15 years of post-Ph.D. research experience, he has published in high-impact journals, holds two international patents, and works on Cancer Biology, Molecular Biology, and Biotechnology, while mentoring future researchers.

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OUR RESEARCH TRAILBLAZERS

DR. RAJEEV MISHRA

ASSOCIATE PROFESSOR, SCHOOL OF
LIFE SCIENCES AND BIOTECHNOLOGY



FUNDING AGENCY: CST-UP

Project Title: "The Role of Telomere in Regulating Stem Cell Phenotype in Triple Negative Breast Cancer"

Short highlight: Dr. Rajeev Mishra, in his CST UP R&D project on "The Role of Telomere in Regulating Stem Cell Phenotype in Triple Negative Breast Cancer", is investigating how telomere dynamics influence stem cell characteristics and tumor progression in aggressive breast cancer. The study aims to uncover mechanistic insights that could inform novel therapeutic strategies for this challenging cancer subtype.

COLLABORATIONS

Dr. Anuradha Kalani
Co-PI
Associate Professor
Disease Biology Lab
School of Life Sciences and Biotechnology

AMOUNT SANCTIONED FOR THE PROJECT

₹ 18,36,000 /-



PROFILE

Dr. Anuradha Kalani earned her Ph.D. from CSIR-CDRI, Lucknow in 2011 and has extensive research experience in neuroscience, brain science, and vascular biology. She conducted postdoctoral research at the University of Louisville, USA, contributing to NIH-funded projects and participating in a federal Superfund program. Dr. Kalani has received multiple awards, including the Award of Excellence in Neuroscience, Young Investigator Award, and Mead Johnson Research Award, and has been featured by the American Physiological Society. Her expertise spans molecular biology, microscopy, cell culture, mouse models, and exosome-based drug delivery, with numerous oral presentations and publications in the field.

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OUR RESEARCH TRAILBLAZERS

DR. ANURADHA KALANI

ASSOCIATE PROFESSOR, SCHOOL OF
LIFE SCIENCES AND BIOTECHNOLOGY



FUNDING AGENCY: CST-UP

Project Title: "Management of Diabetic Kidney Disease through Carnosine Synthase and miR-3473b"

Short highlight: Dr. Anuradha Kalani, in her UP R&D project on "Management of Diabetic Kidney Disease through Carnosine Synthase and miR-3473b", will investigate the therapeutic potential of modulating carnosine synthase and miR-3473b to mitigate kidney damage in diabetes, aiming to uncover novel molecular mechanisms and treatment strategies.

COLLABORATIONS

Dr. Rajeev Mishra
Co-PI
Associate Professor
Molecular Oncology Lab
School of Life Sciences and Biotechnology

AMOUNT SANCTIONED FOR THE PROJECT

₹ 15,36,000 /-



PROFILE

Dr. Shashi Kiran Misra is Director and Associate Professor at the School of Pharmaceutical Sciences, Chhatrapati Shahu Ji Maharaj University, Kanpur. She holds an M.Pharm in Pharmaceutics and a Ph.D. in Pharmaceutical Sciences, specializing in innovative drug delivery systems. Her research focuses on nano-drug delivery, gastroretentive systems, and topical antifungal formulations. Dr. Misra has authored over 56 publications, 4 books, and 16 book chapters, and has served as editor and co-editor of one book each. Her academic contributions have earned her recognition and awards, including the Best Research Paper award. She is also an active member of professional bodies like APTI and IPGA and serves as an editor for reputed journals.

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OUR RESEARCH TRAILBLAZERS

DR. SHASHI KIRAN MISRA

ASSOCIATE PROFESSOR, SCHOOL OF
PHARMACEUTICAL SCIENCES



FUNDING AGENCY: CST-UP (2025-2026)

Project Title: *"Fabrication and Characterization of pH sensitive Graphene-Growth Factor Composite Embedded Scaffold for the Impressive Regimen of Wound."*

Short highlight: In this project, Dr. Shashi Kiran will focus on developing and characterizing a pH-sensitive graphene-growth factor composite scaffold for advanced wound healing. This innovative biomaterial aims to provide controlled drug release, enhanced tissue regeneration, and accelerated wound repair. The approach combines nanotechnology and tissue engineering for an effective wound management solution.

COLLABORATIONS

Dr. Ajay Kumar
Co-PI
Associate Professor
School of Pharmaceutical Sciences

AMOUNT SANCTIONED FOR THE PROJECT

₹ 13,86,000 /-



PROFILE

Dr. Shashwat Katiyar is an Assistant Professor in the Department of Biochemistry (School of Life Sciences and Biotechnology) at Chhatrapati Shahu Ji Maharaj University, Kanpur. He holds advanced expertise in occupational exposure and human health, cellular and molecular immunology, and environmental toxicology. His research portfolio includes studies on arsenic exposure, industrial effluent toxicity, and immunotoxic effects of heavy metals. Dr. Katiyar has authored at least nine scholarly publications, which have garnered substantial academic attention and citations. Additionally, he contributed to university governance as departmental head and a Scientist Member of the Institutional Animal Ethics Committee.

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OUR RESEARCH TRAILBLAZERS

DR. SHASHWAT KATIYAR

ASSISTANT PROFESSOR, SCHOOL OF LIFE
SCIENCES AND BIOTECHNOLOGY



FUNDING AGENCY: CST-UP (2025-2026)

Project Title: *“Assessment of Oxidative and Metabolic Enzymes in Fish of River Hindon at Saharanpur District (Upstream) and Gautam Budha Nagar (Downstream) as Signaling of Water Quality.”*

Short highlight: In this project, Dr. Shashwat Katiyar will assess oxidative and metabolic enzyme responses in fish from the River Hindon at upstream (Saharanpur) and downstream (Gautam Budha Nagar) sites. These biomarkers will serve as indicators of water quality, linking aquatic health with environmental pollution and ecosystem sustainability.

COLLABORATIONS

Dr. Ajay Kumar Gupta
Co-PI
Associate Professor
School of Pharmaceutical Sciences

AMOUNT SANCTIONED FOR THE PROJECT

₹ 13,86,000 /-



PROFILE

Dr. Namita Tiwari earned her Ph.D. from MNNIT Allahabad after completing her postgraduation at IIT Kanpur. She began her career as an Assistant Professor in the Department of Computer Applications at UIET, Kanpur in 2017 and later joined the Department of Mathematics, School of Basic Sciences, in 2021. She has published around 23 research papers in peer-reviewed international journals and presented at numerous national and international conferences. Her research focuses on Digital Signatures in Cryptography.

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OUR RESEARCH TRAILBLAZERS

DR. NAMITA TIWARI

ASSOCIATE PROFESSOR, DEPARTMENT
OF MATHEMATICS AND COMPUTER
APPLICATION



FUNDING AGENCY: C3I HUB IIT KANPUR

Project Title: "Design and Analysis of Multivariate Digital Signature as Post Quantum candidate in NIST."

Short highlight: Dr. Namita Tiwari, in C3i HUB project, focuses on designing and analyzing multivariate digital signature schemes as post-quantum candidates, aiming to develop quantum-safe cryptographic solutions aligned with NIST standards for future-proof security.

COLLABORATIONS

NA

AMOUNT SANCTIONED FOR THE PROJECT

₹10,00,000/-



PROFILE

Dr. Ankit Trivedi earned his Ph.D. from Gurukul Kangri University, Haridwar and began his teaching career at G.B. Pant University, Pantnagar. He is currently Assistant Professor in the Department of English and Modern European & Foreign Languages, CSJM University, Kanpur. His research focuses on Indian and Western Poetics, with interests in Linguistics and the Indian Knowledge System. He has delivered invited lectures, served as a resource person at SCERT, New Delhi, and is passionate about innovative English language teaching.

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OUR RESEARCH TRAILBLAZERS

DR. ANKIT TRIVEDI

ASSISTANT PROFESSOR, SCHOOL OF
LANGUAGES



FUNDING AGENCY: ICSSR-MINOR GRANT

Project Title: *"Indian (Sanskrit) Poetics: Developing Application Models"*

Short highlight: Dr. Ankit Trivedi, in his project titled *"Indian (Sanskrit) Poetics: Developing Application Models,"* will explore the application of classical Sanskrit poetics to contemporary contexts, aiming to create innovative frameworks that bridge traditional literary theory with modern interpretative models

COLLABORATIONS

Dr Sarvesh Mani Tripathi, School of Languages, Dr Vikas Kumar Yadav, School of Languages, and Dr Prashant, Department of Lifelong Learning

AMOUNT SANCTIONED FOR THE PROJECT

₹ 5,80,000 /-



OUR RESEARCH TRAILBLAZERS

DR. SONI GUPTA

ASSISTANT PROFESSOR, SCHOOL OF LIFE
SCIENCES AND BIOTECHNOLOGY

PROFILE

Dr. Soni Gupta joined CSJMU, Kanpur as Assistant Professor in the Department of Life Sciences in January 2022. She has previously served as DST Women Scientist (WOS-A) at CSIR-CIMAP, Lucknow, and has led projects as CSIR-Senior Research Associate and DST Young Scientist. Her research career includes roles as Research Associate at Hyderabad Central University and the Indian Institute of Advanced Research, Gandhinagar. She earned her Ph.D. from CSIR-CIMAP, Lucknow in 2008, with expertise in plant breeding, genetic resource conservation, and molecular biology.

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उच्च शिक्षा विभाग
उत्तर प्रदेश सरकार

FUNDING AGENCY: UP R&D

Project Title: *"Extraction and Characterization of Cellulose Nano Crystals (CNCs) from horticulture/garden waste"*

Short highlight: Dr. Soni Gupta will extract cellulose nanocrystals (CNCs) from horticultural waste using green processing methods and carry out their advanced structural and functional characterization. The research will explore CNC applications in biodegradable packaging, composites, and sustainable materials, converting waste into valuable nanoproducts.

COLLABORATIONS

Dr. Anuradha Kalani
Co-PI
Associate Professor
Disease Biology Lab
School of Life Sciences and Biotechnology

AMOUNT SANCTIONED FOR THE PROJECT

₹4,67,500/-



PROFILE

Dr. Gaurav Kumar completed his Ph.D. in 2016 at DIPAS-DRDO on hypobaric hypoxia-induced neurophysiological perturbations. He is a recipient of the DST-SERB National Postdoctoral Fellowship (JNU) and an ICMR Research Associateship (DIPAS-DRDO). His international training includes fellowships from the International Society of Cerebral Blood Flow and Metabolism (France), Allen Brain Institute (Japan), and the Wellcome Trust (UK), reflecting his strong expertise in neurovascular biology and systems neuroscience.

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OUR RESEARCH TRAILBLAZERS

DR. GAURAV KUMAR

ASSISTANT PROFESSOR, SCHOOL OF LIFE
SCIENCES AND BIOTECHNOLOGY



उच्च शिक्षा विभाग
उत्तर प्रदेश सरकार

FUNDING AGENCY: UP R&D

Project Title: "Investigating the Efficacy of H₂S conjugate drug ATB-346 in modulating neurovascular function in Vascular Dementia"

Short highlight: Dr. Gaurav Kumar will investigate the H₂S-conjugate drug ATB-346 for its potential to modulate neurovascular function in vascular dementia. The project aims to uncover therapeutic mechanisms that may offer novel strategies for dementia management.

COLLABORATIONS

Dr. Ajay Kumar Pandey
Co-PI
Assistant Professor
School of Life Sciences and Biotechnology

AMOUNT SANCTIONED FOR THE PROJECT

₹4,45,500/-



PROFILE

Dr. Sreeharsha earned his Ph.D. in Plant Sciences from the University of Hyderabad in 2018, focusing on physiological and molecular responses of legumes to elevated CO₂. He served as a DST-INSPIRE Faculty at CSIR-IICT, Hyderabad until 2022 before joining CSJM University, Kanpur as Assistant Professor. He has 20 research papers, one authored book, an h-index of 14, and an average impact factor of 6.5. An Associate Fellow of the Telangana Academy of Sciences and Life Member of BRSI, he has received several honors, including the Best Ph.D. Thesis Award, DST International Travel Grant, and Scientist of the Year (2022). Currently, he leads a UP-HEC-funded project on photosystem responses of microalgae under stress.

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OUR RESEARCH TRAILBLAZERS

DR. V. SREEHARSHA RACHAPUDI

ASSISTANT PROFESSOR, SCHOOL OF LIFE
SCIENCES AND BIOTECHNOLOGY



उच्च शिक्षा विभाग
उत्तर प्रदेश सरकार

FUNDING AGENCY: UP R&D

Project Title: *"Deciphering the Role of CP43 Intrinsic Protein in regulating growth and photosynthesis in microalgae under elevated CO₂ and light"*

Short highlight: Dr. Sreeharsha will investigate the role of CP43 intrinsic protein in microalgae to understand its regulatory function in growth and photosynthesis under elevated CO₂ and high light conditions. This work aims to unravel molecular strategies for enhancing microalgal productivity and bioenergy potential in changing climate scenarios.

COLLABORATIONS

Dr. Ajay Kumar Pandey
Co-PI
Assistant Professor
School of Life Sciences and Biotechnology

AMOUNT SANCTIONED FOR THE PROJECT

₹4,34,500/-



PROFILE

Dr. Pramod K. Yadav, Associate Professor and Ramalingaswami Fellow, earned his Ph.D. in Biotechnology from DDU Gorakhpur University and trained extensively at the University of Michigan, mastering enzymology, structural biology, and cryo-EM. He has received fellowships including the AHA Postdoctoral Fellowship and DBT-Ramalingaswami Fellowship, and published in leading journals such as *Cell*, *PNAS*, and *JACS*. His research focuses on structural enzymology of H₂S metabolism and signaling enzymes, along with microbial enzymes of therapeutic and industrial relevance. As a Ramalingaswami Fellow, he has brought > ₹80 lakh funding to the CSJM University to support his research goals.

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OUR RESEARCH TRAILBLAZERS

DR. PRAMOD KUMAR YADAV

ASSOCIATE PROFESSOR, SCHOOL OF
LIFE SCIENCES AND BIOTECHNOLOGY



उच्च शिक्षा विभाग
उत्तर प्रदेश सरकार

FUNDING AGENCY: UP R&D

Project Title: "Identification of fungi producing L-Asparagines: A pharmaceutically important enzyme."

Short highlight: Dr. Pramod K. Yadav is working on identifying fungi capable of producing L-Asparaginase, a pharmaceutically important enzyme widely used in leukemia treatment. The study aims to explore novel fungal sources to develop cost-effective and efficient enzyme production strategies for therapeutic applications.

COLLABORATIONS

Dr. Sudhir Kumar Awasthi
Co-PI
Professor
School of Life Sciences and Biotechnology

AMOUNT SANCTIONED FOR THE PROJECT

₹3,63,000/-



PROFILE

Dr. Akhilendra Pratap Bharati

completed his Botany (Hons.) from Banaras Hindu University and M.Tech. in Biotechnology from IIT Roorkee, where he worked on chitosan nanoparticles. He earned his Ph.D. from CSIR-CDRI, Lucknow, identifying and characterizing RNA polymerase II CTD-associated proteins using proteomics and nanoLC/MS, with the novel discovery of dual specificity in *S. cerevisiae* mRNA capping enzyme. As a SERB-DST NPDF at IIT Bombay, he studied proteins involved in chromosomal and plasmid segregation. He has also contributed to the ICAR-NBAIM MGRR project, building microbial genetic resources for agriculture.

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OUR RESEARCH TRAILBLAZERS

DR. AKHILENDRA PRATAP BHARATI

ASSISTANT PROFESSOR, SCHOOL OF LIFE
SCIENCES AND BIOTECHNOLOGY



उच्च शिक्षा विभाग
उत्तर प्रदेश सरकार

FUNDING AGENCY: UP R&D

Project Title: "Repurposing FDA-Approved Drugs to discover new CDRI Efflux pump inhibitors in *Candida albicans* a leading cause of candidacies"

Short highlight: Dr. Akhilendra Pratap Bharati will investigate the repurposing of FDA-approved drugs to identify novel efflux pump inhibitors in *Candida albicans*, a major cause of candidiasis. The project aims to overcome antifungal resistance and advance therapeutic strategies against this opportunistic pathogen.

COLLABORATIONS

Dr. Dipesh Kumar Verma
Co-PI
Assistant Professor
School of Life Sciences and Biotechnology

AMOUNT SANCTIONED FOR THE PROJECT

₹2,97,000/-



PROFILE

Prof. Sudhanshu Pandya brings over 26 years of professional, academic, and research experience in the fields of Investment Management, Financial Services, International Finance, and Strategic Management. With a distinguished career spanning academia and industry, he has consistently contributed to shaping financial strategies, fostering research excellence, and mentoring future leaders in finance and management. His expertise bridges theoretical knowledge with practical insights, making him a thought leader in both national and international financial and strategic management landscapes.

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OUR RESEARCH TRAILBLAZERS

PROF. SUDHANSHU PANDIYA

PROFESSOR, SCHOOL OF BUSINESS
MANAGEMENT



उच्च शिक्षा विभाग
उत्तर प्रदेश सरकार

FUNDING AGENCY: UP R&D

Project Title: *"Leveraging Behavioral Insights to Enhance Financial Literacy and Investment Habits in Uttar Pradesh, India."*

Short highlight: Prof. Sudhanshu Pandya, in his UP R&D project, leverages behavioral insights to enhance financial literacy and investment habits in Uttar Pradesh, India, aiming to translate financial knowledge into effective and sustainable investment decisions.

COLLABORATIONS

Dr. Mohit Kumar
Co-PI
Assistant Professor
School of Business and Management

AMOUNT SANCTIONED FOR THE PROJECT

₹2,09,000/-



PROFILE

Dr. Anshu Singh has completed her PhD from Department of Sociology, Delhi School of Economics, in the area of Higher Education, and Minority Spaces. She has closely worked in the area of gender, urban histories, disability, and education in her tenure in Centre for Women's Development Studies, Delhi. She has been awarded Post-Graduate Fellowship, Delhi University; Visiting Fellowship to University of Ioannina, Greece; and Wenner-Gren Fellowship, Australia Anthropological Association. She has been the representative of Delhi University to Indo-French Collaborative Team. She has been trained in the field of Data Analytics at IIMA where her specialization was Natural Language Processing and Business Analytics.

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OUR RESEARCH TRAILBLAZERS

DR. ANSHU SINGH

ASSISTANT PROFESSOR, SCHOOL OF
ARTS, HUMANITIES, AND SOCIAL
SCIENCES



**FUNDING AGENCY: ASSOCIATION OF INDIAN
UNIVERSITIES, GOVERNMENT OF INDIA.**

Project Title: "Implementation Strategy for Use of AI in Various
Disciplinary Domain."

Short highlight: Dr. Anshu Singh, through her AIU-funded project, aims to explore the multidisciplinary implications of Artificial Intelligence (AI) in higher education. The study will analyze AI's predictive potential and inherent limitations across diverse academic disciplines, considering variations in subject nature and epistemological foundations. This work seeks to enhance understanding of AI's impact beyond technical domains, fostering a comprehensive perspective that bridges disciplinary boundaries.

COLLABORATIONS

NA

AMOUNT SANCTIONED FOR THE PROJECT

₹2,00,000/-



PROFILE

Dr. Shashi Kant Tripathi earned his Ph.D. and LL.M. from the Faculty of Law, Banaras Hindu University, Uttar Pradesh. Before joining the Atal Bihari Vajpayee School of Legal Studies, CSJMU, Kanpur in 2022, he served as an Assistant Professor at Govt. D.K.P.G. College, Baloda Bazaar, Chhattisgarh. He has 14 publications, including two books, and has actively participated in national and international conferences, seminars, and webinars. An annual member of the Indian Society of International Law and a lifetime member of the South Asian Society of Criminology and Victimology and Indian Society of Victimology, his research and teaching focus on Criminal Law, Human Rights, and Constitutional Law.

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OUR RESEARCH TRAILBLAZERS

DR. SHASHI KANT TRIPATHI
ASSOCIATE PROFESSOR, DEPARTMENT
OF LAW



उच्च शिक्षा विभाग
उत्तर प्रदेश सरकार

FUNDING AGENCY: UP R&D

Project Title: "Police Torture: Violation of Human Rights in Uttar Pradesh."

Short highlight: Dr. Shashi Kant Tripathi, in his UP R&D project on "Police Torture: Violation of Human Rights in Uttar Pradesh", will investigate custodial abuse and excessive use of force by law enforcement. The study will focus on legal frameworks, systemic challenges, and socio-political factors, aiming to promote accountability, reforms, and protection of citizens' fundamental rights

COLLABORATIONS

Dr. Rahul Tiwari
Co-PI
Assistant Professor
School of Life Sciences and Biotechnology

AMOUNT SANCTIONED FOR THE PROJECT

₹1,27,000/-



PROFILE

Dr. Rajeev Mishra earned his Ph.D. from CSIR-CDRI, Lucknow, and CSJM University, Kanpur, focusing on improving therapeutic efficacy of natural and existing drugs in cancer models. He pursued postdoctoral research at Nihon University, Japan, and Cedars Sinai Medical Center, USA, studying novel molecules targeting MMP-9 and MYC and the tumor microenvironment. In 2018, he joined Manipal University Jaipur as an Assistant Professor, establishing the Cancer Research Laboratory. With 15 years of post-Ph.D. research experience, he has published in high-impact journals, holds two international patents, and works on Cancer Biology, Molecular Biology, and Biotechnology, while mentoring future researchers.

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OUR RESEARCH TRAILBLAZERS

DR. RAJEEV MISHRA

ASSOCIATE PROFESSOR, SCHOOL OF
LIFE SCIENCES AND BIOTECHNOLOGY



FUNDING AGENCY: DBT PROGRAMME FOR SOCIETAL DEVELOPMENT

Project Title: *"Determining the Personal Silica Dust Exposure Levels in Different Rural Occupational Settings and its Correlation with CC-16 and Neopterin Biolevels."*

Short highlight: Dr. Rajeev Mishra (Co-PI) will investigate personal silica dust exposure levels across various rural occupational settings and examine their correlation with CC-16 and Neopterin biomarkers, aiming to understand the health impacts of occupational dust and identify early indicators of respiratory stress.

COLLABORATIONS

Dr. Gyanendra Singh
PI
Scientist-D
ICMR-NIOH
Ahmedabad, Gujarat
India

AMOUNT SANCTIONED FOR THE PROJECT

₹ Yet to be disclosed.



ONGOING PROJECTS

CSJMU Researchers Making an Impact

This section highlights the active research projects at CSJMU, reflecting the faculty's continued pursuit of knowledge, innovation, and societal impact. These ongoing grants demonstrate the university's commitment to cutting-edge research and its role in fostering a vibrant academic and scientific environment.



Ongoing Research Grants

CSJMU is actively engaged in high-impact research projects funded by prestigious national and state-level agencies. These grants strengthen research infrastructure, foster innovation, and promote collaborative research in key areas of science and technology.

DST-FIST

Funding Agency: Department of Science & Technology, Government of India

Project Scope: Strengthening research facilities with advanced scientific instrumentation for crop improvement, biomass valorization, and renewable energy research.

Sanctioned Amount: ₹1.75 crore for equipment and ₹20 lakh for maintenance & collaborations.

Facility: Har Gobind Khurana Centre for Life Science Research.

State University Research Excellence (SURE) Scheme – DST-SERB Project

Funding Agency: Department of Science & Technology – Science and Engineering Research Board (DST-SERB), Government of India

Project Title: Generating antibody-based novel therapeutic modalities against resistant *Salmonella typhi*

Principal Investigator: Dr. Chandresh Sharma, Assistant Professor, Department of Life Sciences & Biotechnology, CSJMU, Kanpur

Project Scope: Development of innovative antibody-based therapeutic strategies targeting resistant strains of *Salmonella typhi*, with translational potential for combating typhoid.

Sanctioned Amount: ₹28,92,560

Duration: 2024–2027 (ongoing)

Impact: Strengthens translational research on antimicrobial resistance and provides advanced training opportunities in immunology and therapeutic development at CSJMU.

DBT – Ramalingaswami Re-entry Fellowship

Funding Agency: Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India

Project Title: *Crosstalk of human hydrogen sulfide producing enzymes and copper relevant in pathophysiology.*

Project Scope: Research on structural and biochemical mechanisms of hydrogen sulfide producing enzymes, using advanced structural biology tools (including cryo-EM) to understand pathways relevant to human health and disease.

Sanctioned Amount: ₹1,13,60,000

Duration: 2020–2025 (ongoing)

Principal Investigator: Dr. Pramod K Yadav, Department of Life Sciences & Biotechnology, CSJMU

Impact: Strengthening research infrastructure in enzymology and structural biology, enhancing capacity for high-end molecular research, and contributing to publications and innovation at CSJMU.

DST-SERB

Funding Agency: Science and Engineering Research Board (SERB), Department of Science & Technology, Government of India.

Project Title: *Elucidating the mechanism of motor clustering and de-clustering in *Saccharomyces cerevisiae*.*

Principal Investigator: Dr. Akhilendra Pratap Bharti, Department of Biotechnology, CSJMU, Kanpur.

Project Scope: The project aims to investigate the molecular mechanisms governing the clustering and de-clustering of motor proteins in the yeast *S. cerevisiae*, by acquiring specialized equipment for in-depth experimental analysis.

Total Funding: ₹49,17,070.

Duration: 2023–2026 (ongoing).

Research Impact: Enhances understanding of motor protein dynamics while strengthening high-end experimental research and methodological capabilities in the biotechnology department.



Ongoing Research Grants

DST-INSPIRE Faculty Fellowship grant

Funding Agency: Department of Science & Technology (DST), Ministry of Science & Technology, Government of India — INSPIRE Division

Project Title: INSPIRE Faculty Fellowship

Principal Investigator: Mr. Rachapudi Venkata Sreeharsha, Assistant Professor, CSJMU, Kanpur

Sanctioned Amount: ₹ 37,74,755

Duration: 2022–2027 (ongoing)

Impact: Facilitates continuation of high-level research under the INSPIRE Faculty Fellowship at CSJMU, ensuring seamless access to funds and resources for advancing scientific work.

ICSSR Project

Funding Agency: Indian Council for Social Science Research (ICSSR), Government of India

Project Title: A Machine Learning Project on the Tribals of India

Principal Investigator: Dr. Anshu Singh, Assistant Professor

Sanctioned Amount: ₹7,50,000

Duration: 2023–2025

Impact: Develops a web-based machine learning pipeline to document and disseminate cultural and traditional aspects of India's tribal communities.

AIU Project

Funding Agency: Association of Indian Universities

Project Title: AIU-CSJMU Academic and Administrative Development Centre

Principal Investigator: Dr. Anshu Singh, Assistant Professor

Sanctioned Amount: ₹2,00,000

Duration: 2023–2025

Impact: Established a centre to train students, faculty, and administrators in advanced technologies, including AI, and develop self-sustaining resources.

DBT – Ramalingaswami Re-entry Fellowship

Funding Agency: Department of Biotechnology (DBT), Ministry of Science & Technology, Government of India

Project Title: Crosstalk of human hydrogen sulfide producing enzymes and copper relevant in pathophysiology.

Project Scope: Research on structural and biochemical mechanisms of hydrogen sulfide producing enzymes, using advanced structural biology tools (including cryo-EM) to understand pathways relevant to human health and disease.

Sanctioned Amount: ₹1,13,60,000

Duration: 2020–2025 (ongoing)

Principal Investigator: Dr. Pramod K Yadav, Department of Life Sciences & Biotechnology, CSJMU

Impact: Strengthening research infrastructure in enzymology and structural biology, enhancing capacity for high-end molecular research, and contributing to publications and innovation at CSJMU.

External Resource Generated

Dr. Rajeev Mishra Secures International Consultancy Assignment

Dr. Rajeev Mishra, faculty member at Chhatrapati Shahu Ji Maharaj University (CSJMU), has received a consultancy fee of ₹90,000 from Wave Pharma Limited, a UK-based pharmaceutical company. This collaboration reflects Dr. Mishra's expertise and highlights CSJMU's growing engagement with global industry partners.

Prof. Varsha Gupta Secures Research Consultancy Assignment

Prof. Varsha Gupta, faculty member at Chhatrapati Shahu Ji Maharaj University (CSJMU), has received a consultancy fee of ₹1,50,000 from Sutra Management Consultancies (LLC), Dubai, for the project titled "Enabling AI for a Ministry in the United Arab Emirates." This achievement underscores her expertise in Artificial Intelligence and reflects CSJMU's growing collaboration with international organizations. The funds were utilized for the procurement of a laptop to enhance research capabilities.

An aerial photograph of the CSJMU campus, showing several large, modern academic buildings with light-colored facades and red accents. The buildings are arranged around a central green area with a curved walkway. The surrounding landscape is a mix of greenery and some dry, brownish patches. The text "EXECUTED PROJECTS" is overlaid in large, bold, black capital letters.

EXECUTED PROJECTS

CSJMU Researchers Making an Impact

This section showcases the research projects successfully completed by CSJMU faculty in 2024-2025, highlighting their dedication, innovative contributions, and tangible outcomes. These accomplished projects reflect the university's commitment to advancing knowledge, fostering impactful research, and strengthening its position as a center of academic and scientific excellence.



Prof. Sudhanshu Pandiya

Professor

School of Business Management

Successfully completed his research project under **UP CoE** titled: **“Optimizing Financial Growth: Navigating the Landscape of Direct Tax Laws for Individuals.”**

Project Grant: ₹4,20,000



Dr. Tanuja Bhatt

Assistant Professor

School of Teacher Education

Successfully completed her research project under **UP CoE** titled: **“Exploring the Influence of Online Teaching Applications /Portals Statement of Expenditure for Centre of Excellence on the Academic Development of students.”**





Dr. Prasant Trivedi
Assistant Professor

School of Business Management

Successfully completed his research project under UP CoE titled: **“Access to Finance MSME in UP”**

Project Grant: ₹4,80,000



Dr. Gopal Singh
Assistant Professor

School of Teacher Education

Successfully completed his research project under **UP CoE** titled: **“An access to education by children of migrant worker.”**

Project Grant: ₹4,40,000



Dr. Manas Upadhyay
Assistant Professor

Department of Lifelong Learning
and Extension

Successfully completed his
research project under **UP CoE**
titled: **“Impact of Rigveda on
Preserving the Environment:
Unleashing the Role of Indian
Traditional Culture in Achieving
SDGs.”**

Project Grant: ₹5,10,000



Dr. Pankaj Dwivedi
Associate Professor
Department of Law

Successfully completed his
research project under **UP CoE**
titled: **“Right to Education with
Special Reference to Children
in Kanpur Nagar District.”**

Project Grant: ₹3,75,000



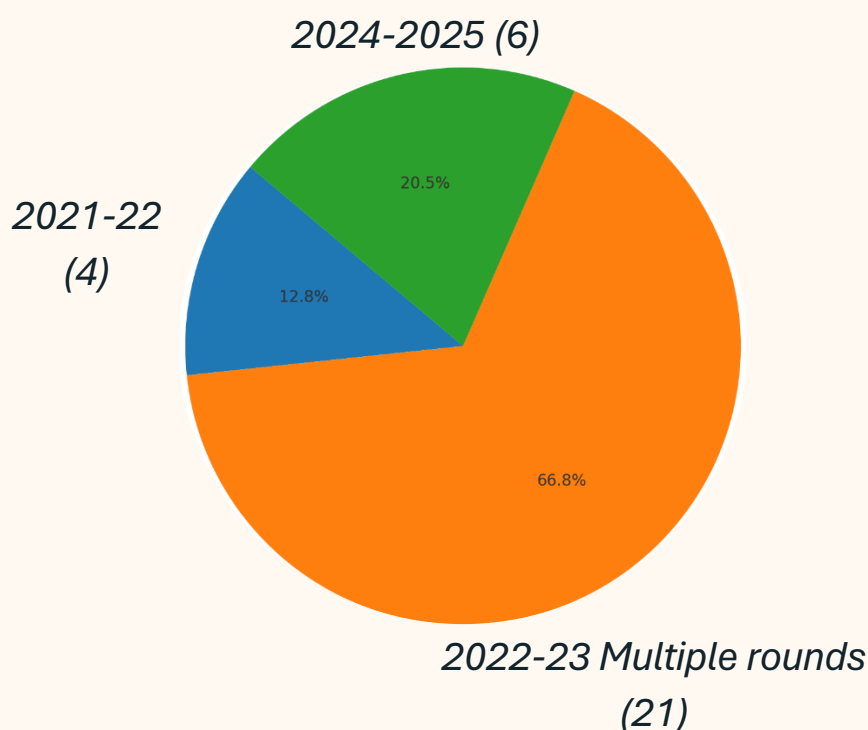


Overview of Past Research Funding

This section highlights the research grants that CSJMU faculty have successfully carried out, reflecting their ingenuity, perseverance, and measurable impact. These completed projects underscore the university's role in driving knowledge, fostering innovation, and building a legacy of excellence in research and scholarship.



U.P. CENTER OF EXCELLENCE GRANTS



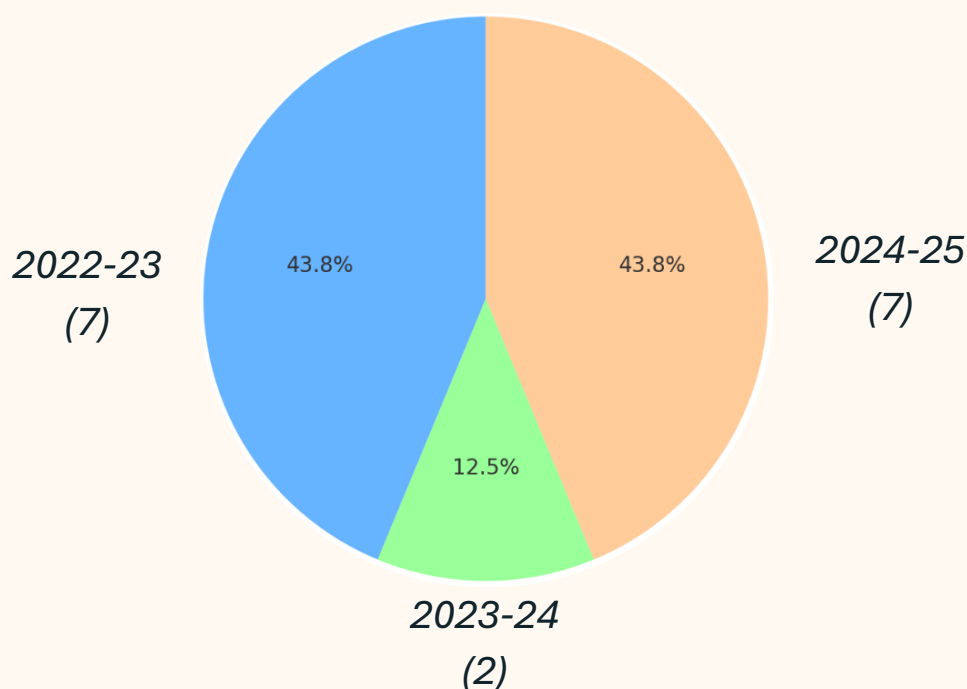
Distribution of UP CoE Budget Allocation Across Different Rounds and Years.

The pie chart illustrates the proportion of the total budget allocated under the UP Centre of Excellence (CoE) scheme. The allocations are distributed as follows:

- CoE Scheme (15 March 2022): ₹17,15,000 (4 schemes, 11.5%)
- CoE 2022-23 (Rounds on 20 April, 7 July, and 24 August 2022): ₹89,55,000 (21 schemes, 60.0%)
- 2024-25: ₹27,45,000 (6 schemes, 28.5%)



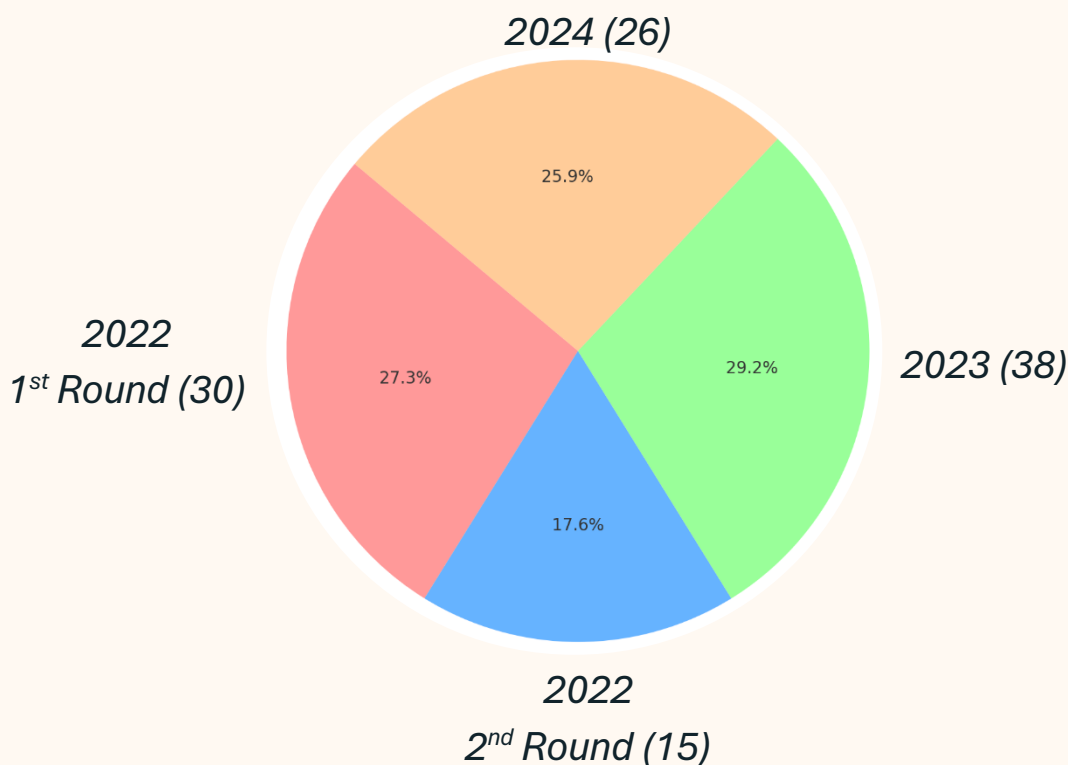
UP R&D GRANTS



Distribution of UP R&D Schemes Across Financial Years. The pie chart shows the proportion of schemes in each year: 2022-23 (7 schemes, 43.8%), 2023-24 (2 schemes, 12.5%), and 2024-25 (7 schemes, 43.8%). The corresponding total grant allocations (in INR) were ₹1,569,100 for 2022-23, ₹195,000 for 2023-24, and ₹2,343,500 for 2024-25.



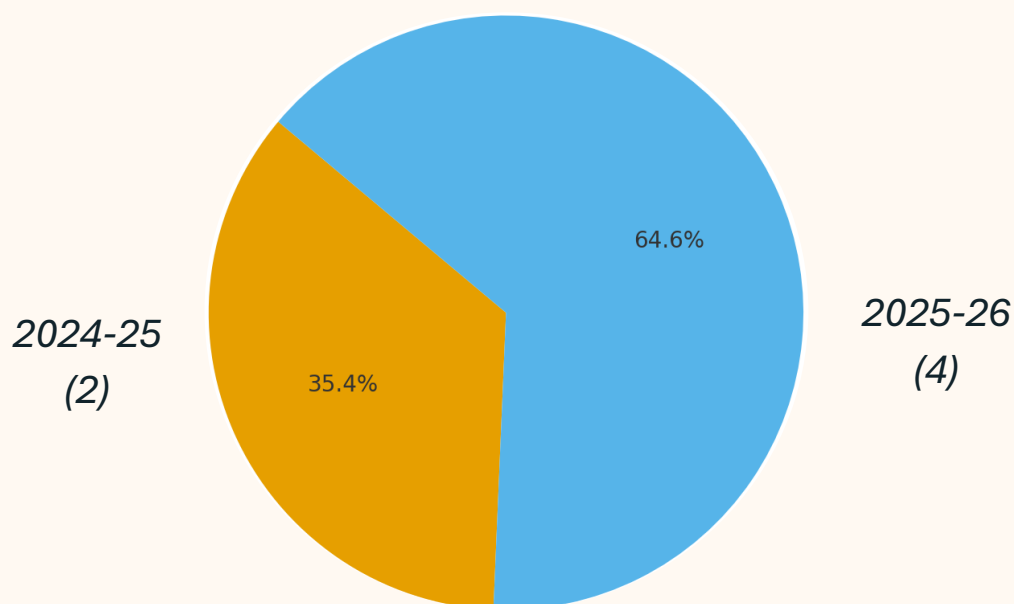
CSJMU'S C. V. RAMAN GRANTS



Distribution of CV Raman Research Grant allocations across different rounds and years. The pie chart shows the proportion of total budget allocated to each round: 2022 1st Round (30 grants, 27.3%), 2022 2nd Round (15 grants, 17.6%), 2023 (38 grants, 29.2%), and 2024 (26 grants, 25.9%). The corresponding total budget allocations (in INR) were ₹2,165,000 for 2022 Round 1, ₹1,400,000 for 2022 Round 2, ₹2,315,000 for 2023, and ₹2,055,000 for 2024.



CST-UP GRANTS



Distribution of CST UP Budget Allocation Across Different Years

The pie chart illustrates the proportion of the total budget allocated under CST UP projects. The allocations are distributed as follows:

- **2024–2025:** ₹33,72,000 (2 projects, 35.4%)
- **2025–2026:** ₹61,44,000 (4 projects, 64.6%)

Total: ₹95,16,000 (6 projects)



CSJMU Research

AT A GLANCE

Quick Facts about CSJMU

- Established:** 1966
- Location:** Kanpur, Uttar Pradesh
- Students Served Annually:** 2,75,000+ across 170+ affiliated colleges
- Accreditations:** NAAC A++ | UGC Category-I | National & International Recognitions

Research Ecosystem

- 2 Central Instrumentation Facilities** – Advanced molecular, imaging, and analytical tools
- CPCSEA-approved Animal House** – Biomedical research support
- Agriculture & Agri-Tech Hubs** – Crop improvement & sustainable farming
- Bar-coded Herbarium & Medicinal Garden** – Preserving biodiversity & ethnopharmacology
- Centres of Excellence** – Rehabilitation Sciences, Assistive Technology, Inclusive Healthcare

Achievements (Last 1 Year)

- ₹3.5 Crore Competitive Funding** attracted from DST, DBT, ICSSR, CST-UP, ANRF, etc.
- Secured prestigious ANRF-PAIR (Category B) Grant** in collaboration with IIT-Kanpur
- Faculty Recognition/Fellowships:** DST-Inspire, Ramalingaswami, Early Career Research Grants
- Faculty recipients of ICSSR projects, ANRF-PAIR (Category B) awards, Ramalingaswami Fellowship, CST-UP funding, UP R&D and UP Center of Excellence,** and other prestigious Projects and Fellowships
- Launch of C.V. Raman Research Grants, August 14th, 2025:** supporting Minor (up to ₹2 lakh) and Major (up to ₹5 lakh) projects, fostering innovation and promoting research among faculty.

CSJMU is where ideas become innovation, and innovation becomes impact. A true Hub of Ideas, Home of Innovation.

THE TEAM

Projects and External Resource Generation Cell

Chhatrapati Shahu Ji Maharaj University, Kanpur

DR. ANURADHA KALANI

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DR. SONI GUPTA

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Chhatrapati Shahu Ji Maharaj University

40th Convocation