



Raman Research Compendium

Research in 2025-26

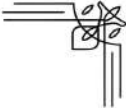
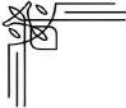


DR. C.V. RAMAN UNIVERSITY

AN ISO 9001:2015 CERTIFIED FOR QMS

A part of **aisect** india Khandwa, Madhya Pradesh

Approved by: MP Govt., AICTE, NCTE, MP PARAMEDICAL COUNCIL, PCI, Recognized by: UGC Member of: AIU



QUALITY POLICY



"Continue to excel in all the performances in academic activities viz teaching, entrepreneurial initiatives, research and innovation, consultancy and continuing education especially cationization and massification, creating new knowledge completely aligning with New Education Policy (NEP 2020) and fulfilling the SGD 4 obligations through processes of self-evaluation and continual improvement".

CVRUK is committed for creating Center for Excellence to build capacities and empower youth augmenting their future career by developing and applying new and applied, appropriate and cutting- edge technologies by augmenting the fundamentals of science. CVRUK become instrumental in learning, develop, and disseminate strategies to deepen and strengthen strategies fulfilling SDG 4 and enabling its students to emulate it for sustainable livelihoods safety net in farm and non-farm sector.

CVRUK created a peaceful, favorable, and amiable learning environment and an admirable infrastructure in the form of hospitable building, well-equipped study centers, lecture theatres, laboratories, live laboratories, dexterities, libraries, e-learning centers, computer center and 24 hours student amenities and campus facilities, field laboratories to plan-execute-modify-replicate model.



Vice-Chancellor's Message

Message from the Vice-Chancellor

It gives me immense pleasure to present the **Research Compendium** of Dr. C. V. Raman University, Khandwa, which reflects our unwavering commitment to the philosophy of “**Research in Use**”.

At CVRUK, research is not merely an academic exercise, it is a powerful instrument for creating practical solutions, empowering communities, and contributing to sustainable national development.

Guided by the vision of the National Education Policy (NEP) 2020, CVRUK fosters a vibrant research ecosystem that encourages innovation, interdisciplinary collaboration, intellectual property creation, entrepreneurship, and societal engagement. Our faculty members, researchers, and students are continuously working towards transforming ideas into impactful outcomes that address real-world challenges.

This compendium showcases the diverse research accomplishments of CVRUK, including external funded projects, patents applied, published and granted, innovations, publications, community-based research, industry collaborations, and technology-driven initiatives. From sustainable agriculture and food processing innovations to renewable energy, tribal development, health, education, and policy research, each contribution reflects our commitment to ensuring that research reaches society and creates measurable impact.

I extend my sincere appreciation to the Research & Innovation Cell, faculty members, scholars, students, and all stakeholders whose dedication has strengthened our culture of excellence. Their relentless pursuit of knowledge and innovation continues to elevate the University's research profile at regional, national, and international levels.

I am confident that this Research Compendium will not only document our achievements but also inspire researchers, academicians, industry partners, and policymakers to collaborate in building a future where research serves humanity through innovation, inclusivity, and sustainable development.

I convey my best wishes to everyone associated with this remarkable endeavor and encourage all researchers to continue transforming knowledge into meaningful impact through “**Research in Use**.”

Dr. Arun R. Joshi
Vice-Chancellor
Dr. C. V. Raman University, Khandwa

Registrar's Message

Message from the Registrar

It is a matter of great pride to present the Research Compendium of Dr. C. V. Raman University, Khandwa, showcasing the University's growing commitment to excellence in research, innovation, and knowledge creation. This publication reflects our collective efforts to build a dynamic academic environment where research is translated into meaningful outcomes for society through our guiding philosophy of “**Research in Use.**”

At Dr. C. V. Raman University, we are committed to providing a robust administrative and academic ecosystem that supports quality research. Through transparent governance, effective policies, modern research infrastructure, ethical practices, and interdisciplinary collaboration, the University strives to create an environment where faculty members, researchers, and students can pursue innovative ideas with confidence and purpose.

The achievements presented in this compendium—including funded research projects, patents, publications, innovations, industry collaborations, community outreach initiatives, and capacity- building programers — demonstrate the University's steady progress towards becoming a center of research excellence. These accomplishments are the result of the dedicated efforts of our faculty, scholars, administrative teams, and valued collaborators.

I sincerely appreciate the contributions of the Research & Innovation Cell and every researcher who has contributed to strengthening the University's research culture. Their commitment to academic integrity, innovation, and societal impact continues to enhance the reputation of our institution.

I hope this Research Compendium will serve as a valuable record of our achievements and inspire greater collaboration, innovation, and excellence in the years ahead. I extend my best wishes to all researchers and reaffirm the University's commitment to fostering research that creates knowledge, addresses societal challenges, and contributes to national development.

Best Wishes,

Ravi Chaturvedi

Registrar

Dr. C. V. Raman University, Khandwa

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1. INTRODUCTION

Research is the cornerstone of academic excellence and societal transformation. At Dr. C.V. Raman University, Khandwa, research is envisioned not merely as the generation of knowledge but as a catalyst for sustainable development, innovation, and community empowerment. Guided by the philosophy of "**Research into Use**," the University has consistently promoted research that transcends conventional academic boundaries and delivers tangible solutions to the challenges faced by society, particularly in rural and tribal regions.

The **Raman Research Compendium (2025–26)** presents an account of the University's research journey over the academic session (2025-26). It documents the collective achievements of faculty members, research scholars, students, and collaborative partners in the areas of funded research projects, scholarly publications, patents, books, conferences, innovation initiatives, capacity-building programmes, and community-based research interventions. More importantly, it reflects the University's commitment to translating scientific knowledge into practical applications that create measurable social, economic, environmental, and technological impact.

The University significantly strengthened its research ecosystem by expanding external funding opportunities, promoting interdisciplinary research, enhancing intellectual property creation, establishing advanced research facilities such as the Statistics Laboratory (Prachiti), GIS Laboratory (Vasudha), Research Incubation Centre, and strengthening research support systems including project facilitation, plagiarism management, and research dissemination. These initiatives have enabled researchers to undertake high-quality, need-based, and outcome-oriented research aligned with national priorities, the Sustainable Development Goals (SDGs), National Education Policy (NEP 2020), and the vision of Viksit Bharat 2047.

The University's research framework integrates participatory approaches such as Participatory Action Research (PAR) and Participatory Technology Development (PTD), encouraging researchers to work closely with farmers, tribal communities, entrepreneurs, industries, and policymakers. Such collaborative engagement ensures that research outcomes are relevant, scalable, and capable of addressing real-world challenges through innovation and evidence-based interventions.

This Compendium is therefore more than a compilation of research outputs; it is a reflection of the University's evolving research culture, institutional commitment, and academic responsibility. It showcases how multidisciplinary collaboration, innovation, ethical research practices, and community engagement together contribute to building a vibrant research ecosystem that nurtures creativity, strengthens knowledge generation, and promotes inclusive development.

As the University continues its journey towards becoming a centre of excellence in research and innovation, this Compendium stands as a testimony to the dedication of its researchers and the institution's unwavering belief that meaningful research should not only advance academic knowledge but also improve lives, empower communities, and contribute to national development. It is our sincere hope that this publication will inspire researchers, students,

policymakers, funding agencies, and academic institutions to collaborate in creating research that is innovative in thought, impactful in practice, and transformative in its outcomes.

1.1 PURPOSE

The purpose of the **CVRUK Research** is to strengthen the culture of research excellence, innovation, and knowledge dissemination by documenting the University's research journey and promoting impactful, ethical, and socially relevant research practices. It aims to encourage faculty members, researchers, and students to engage in multidisciplinary, solution-oriented, and evidence-based research that contributes to scientific advancement and sustainable development.

The CVRUK serves as a platform to inspire research that addresses real-world challenges through innovation, collaboration, and community engagement. It promotes the University's philosophy of "**Research into Use**," ensuring that research outcomes extend beyond academic publications and are translated into technologies, policies, products, entrepreneurial ventures, and community-based interventions.

It also seeks to foster interdisciplinary collaboration, strengthen research capacity, facilitate intellectual property generation, enhance research visibility, and encourage national and international partnerships. By showcasing quality research and institutional best practices, the Compendium supports continuous improvement in research standards and motivates researchers to pursue excellence in funded projects, scholarly publications, innovation, and technology development.

Ultimately, the purpose of this Compendium is to reinforce the University's commitment to creating a dynamic research ecosystem that generates knowledge with purpose, promotes innovation with responsibility, and contributes meaningfully to society, national development, and global academic progress.

1.2 SCOPE

The scope of research at Dr. C.V. Raman University, Khandwa extends beyond conventional academic inquiry to encompass innovation, technology development, entrepreneurship, policy formulation, and sustainable community development. The University promotes multidisciplinary and translational research that addresses regional, national, and global challenges while generating practical solutions for society.

Research activities span a broad spectrum of disciplines, including agricultural sciences, pharmacy, engineering and technology, environmental science, biotechnology, food processing, education, management, social sciences, humanities, Indian Knowledge Systems (IKS), artificial intelligence, geospatial technologies, renewable energy, healthcare, and rural development. Particular emphasis is placed on research that supports tribal empowerment, sustainable agriculture, natural resource management, climate resilience, public health, skill development, and livelihood generation.

The University continuously strengthens its research ecosystem through advanced laboratories, innovation and incubation facilities, intellectual property promotion, industry collaborations, external research funding, interdisciplinary research groups, and international academic partnerships. Faculty members, researchers, and students are encouraged to undertake need-based, outcome-oriented, and ethically responsible research that contributes to scientific advancement as well as societal well-being.

The scope further includes the promotion of research commercialization, startup development, technology transfer, evidence-based policymaking, scientific communication, and capacity building through research methodology programmes, conferences, workshops, and faculty development initiatives. By integrating emerging technologies with local knowledge and community participation, the University seeks to develop innovative, scalable, and sustainable solutions that contribute to national development and global knowledge creation.

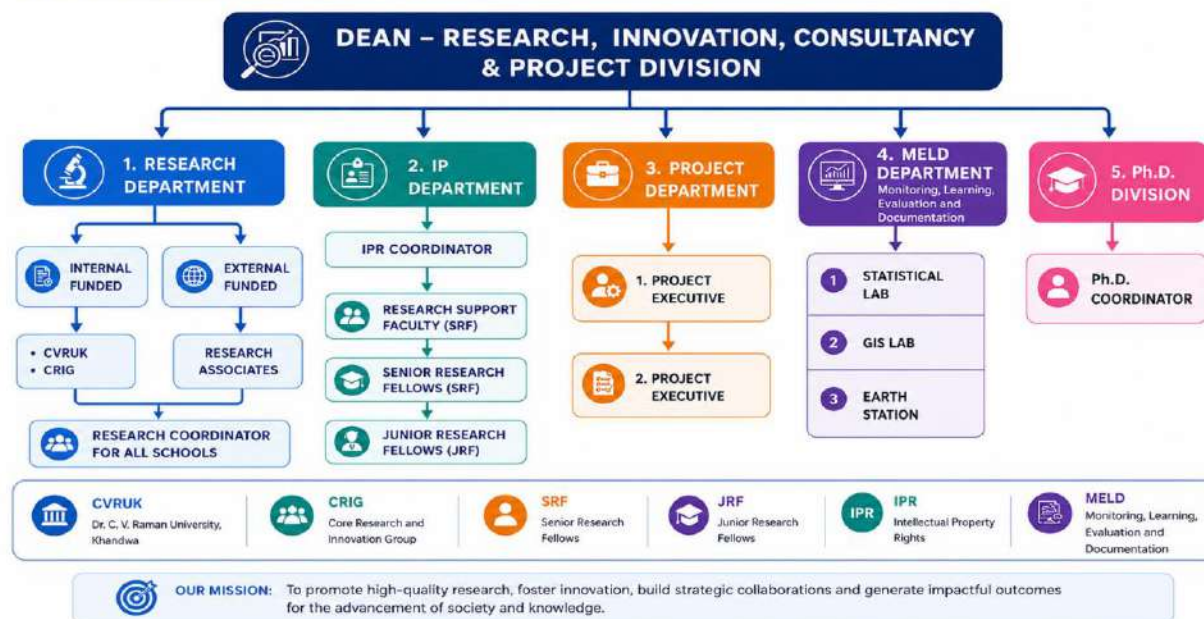
Aligned with the National Education Policy (NEP 2020), Sustainable Development Goals (SDGs), and the vision of Viksit Bharat 2047, the University's research ecosystem is committed to fostering excellence, innovation, inclusivity, and responsible research practices that create lasting academic, economic, environmental, and social impact.

2. RESEARCH & INNOVATION ECOSYSTEM AT CVRUK

A strong research ecosystem is built upon effective institutional support, well-defined policies, ethical research practices, continuous capacity building, and a culture of innovation. Dr. C.V. Raman University, Khandwa has established a comprehensive framework to promote high-quality, multidisciplinary, and socially relevant research by creating dedicated research support mechanisms and academic platforms. Through its Research and Innovation Division, research policies, code of ethics, faculty development initiatives, seminars, workshops, conferences, and innovation programmes such as Innovers, Raman Navonmesh, and the Internal Smart India Hackathon, the University provides an enabling environment that nurtures creativity, strengthens research competencies, encourages collaboration, and transforms innovative ideas into impactful research outcomes. These research promotion facilities collectively contribute to building a vibrant, ethical, and innovation-driven research culture aligned with national priorities and global academic standards.

2.1 COMPOSITION OF THE RESEARCH AND INNOVATION DIVISION

Structure R & D Division



2.2 RESEARCH POLICY

The Research Policy and Guidelines of Dr. C.V. Raman University, Khandwa provide a institutional framework to promote, regulate, and strengthen a vibrant research ecosystem aligned with national priorities and global standards. The policy is designed to foster a culture of innovation, interdisciplinary collaboration, ethical research practices, and evidence-based solutions that contribute to academic excellence, sustainable development, and societal transformation. It applies to all stakeholders engaged in research, including faculty members, research scholars, postgraduate and undergraduate students, project staff, industry collaborators, and partner institutions.

The policy is founded on the principles of research integrity, transparency, inclusiveness, and accountability while supporting the objectives of the National Education Policy (NEP) 2020, National Research Foundation (NRF), Sustainable Development Goals (SDGs), Atmanirbhar Bharat, and the Viksit Bharat 2047 vision. It encourages translational, community-oriented, and outcome-based research that addresses regional, national, and global challenges through scientific inquiry, innovation, entrepreneurship, and participatory approaches.

The university's research governance is coordinated through the Research, Innovation, Development and Dissemination Committee (RIDDC) and the Research & Development (R&D) Division, which oversee research planning, proposal evaluation, funding facilitation, ethical compliance, quality assurance, monitoring, and dissemination of research outcomes. The policy clearly defines the roles and responsibilities of researchers, supervisors, principal investigators,

research coordinators, and institutional committees to ensure responsible conduct of research, efficient utilization of resources, and compliance with regulatory requirements.

The policy incorporates comprehensive guidelines on research ethics, plagiarism prevention, intellectual property rights (IPR), data management, authorship, publication practices, sponsored research, consultancy, project management, bio safety, environmental sustainability, laboratory safety, gender equity, and research involving human and animal subjects. It also establishes mechanisms for grievance redressal, confidentiality, conflict-of-interest management, research misconduct investigation, and responsible use of institutional resources.

To strengthen research capacity, the university promotes faculty development programmes, research fellowships, seed grants, interdisciplinary research clusters, international collaborations, industry partnerships, incubation support, innovation challenges, patents, technology transfer, and startup development. Special emphasis is placed on Participatory Action Research (PAR), Participatory Technology Development (PTD), community-engaged research, and the activities of the Centre for Science and Communication, ensuring that research findings are effectively translated into practical applications and societal benefits.

The policy further provides strategic direction for school-wise research planning, doctoral research management, funded research projects, quality publications, innovation-driven entrepreneurship, and knowledge dissemination through conferences, journals, outreach programmes, and digital platforms. By integrating research, innovation, consultancy, and community engagement, the policy establishes a dynamic ecosystem that nurtures excellence, promotes impactful discoveries, and positions Dr. C.V. Raman University, Khandwa as a leading centre for socially relevant and globally competitive research.

2.3 POLICY FOR CODE OF ETHICS

The Policy for Code of Ethics at Dr. C.V. Raman University, Khandwa is committed to promoting academic integrity, ethical research practices, and professional responsibility across all research and academic activities. Framed in accordance with the UGC (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018, the policy applies to all faculty members, researchers, research scholars, students, and academic staff. It emphasizes originality in research, responsible authorship, respect for intellectual property rights, and zero tolerance toward plagiarism and research misconduct. The university ensures effective implementation through the School Level Academic Integrity Panel (SLAIP) and the University Level Academic Integrity Panel (ULAIP), which oversee the investigation of ethical violations and recommend appropriate actions. By fostering transparency, accountability, and ethical conduct, the policy strengthens the university's research ecosystem and ensures that all scholarly contributions meet the highest standards of academic excellence and integrity.

2.4 FDP / WORKSHOP / SEMINAR / CONFERENCE (RESEARCH PROMOTION FACILITIES)

Faculty Development Programmes (FDPs), Workshops, Seminars, Conferences, Expert Lectures, and Training Programmes are integral components of the research promotion ecosystem at **Dr. C.V. Raman University, Khandwa**. These academic initiatives are regularly organized to strengthen the research capabilities of faculty members, research scholars, and students by providing exposure to emerging research trends, advanced methodologies, innovation practices, interdisciplinary collaboration, and national and international best practices. The programmes facilitate knowledge exchange with eminent academicians, scientists, industry experts, and policymakers, while promoting research ethics, scientific writing, publication quality, intellectual property rights, project development, entrepreneurship, and technology commercialization. Through these capacity-building initiatives, the University continuously nurtures a vibrant research culture aligned with its philosophy of "**Research into Use**," fostering academic excellence, innovation, and societal impact in accordance with **NEP 2020**, the **Sustainable Development Goals (SDGs)**, and the vision of **Viksit Bharat 2047**.

MAJOR FDPS, WORKSHOPS, SEMINARS AND CONFERENCES ORGANIZED DURING 2025–26

S. No	Name of the Activity	Nature of the Activity	In-charge/ Convener	Date
1	खादी और ग्रामोद्योग आयोग द्वारा प्रायोजितदो दिवसीय जन शिक्षण कार्यक्रम कौशल विकास की भारतीय चेतना और गांधीदर्शन'	Seminar	Dr. Seema Sharma Dr. Nushrat Shaikh Arts School	05/08/2025
2	ग्रामोद्योग विकास योजना के अंतर्गत एक दिवसीय जागरूकता शिविर का आयोजन	Workshop	Dr. Seema Sharma Dr. Nushrat Shaikh Arts School	07/08/2025
3	Soil Sense: Machine Certification Program	Certification Program	Dr. Seema Sharma	14/08/2025
4	Excellence in Research-Based Teaching Award	Award ceremony	Dr. Seema Sharma	09/09/2025
5	Smart India Hackathon	Workshop	Er. Nitesh Mishra	20/09/2025
6	Shodh Shikhar Bal Vigyan Parv 2025	Exhibition	Dr. Anupama Gour	17/11/2025
7	Shodh Shikhar Vigyan Parv 2025	International Conference	Dr. Seema Sharma	17/01/2026
8	AI and Food Security: Shaping the Future of Viksit Bharat	National Conference	Dr. Seema Sharma	16/01/2026
9	SPSS Software for Research Data Analysis (Online Training Session)	Training Program	Dr. Seema Sharma	20/02/2026
11	Satu Certification Program	Certification Program	Dr. Seema Sharma	28/02/2026

12	IPR Course IV: Global Techno- Legal Considerations in IPR Scientist Perspectives and Implications.	Conference	Ms. Aayushi Laad	11/03/2026
13	Drafting of Question Papers & Question Bank In alignment with Bloom's Taxonomy	FDP	Dr. Seema Sharma	07/04/2026
14	Expert Talk on Technology Readiness Level (TRL), MRL, IRL, IP Commercialization, Tech Transfer	Conference	Ms. Aayushi Laad	08/04/2026
15	Earth Day-2026 <i>Our Power, Our Planet</i> "One Week Celebration	Awareness Program	Dr. Aanchal	22/04/2026
16	Agri Value Addition Training for SHG Women (Onion, Tomato & Taro Processing)	Training Program	Er. Deepak Kaushal	05/05/2026-09/05/2026
17	Artificial Intelligence, Digital Economy and Sustainable Business: Emerging Trends in Commerce and Management"	International Seminar	Dr. Yogesh Mahajan	19/05/2026
18	Agri Value Addition Training for SHG Women (Onion, Tomato & Taro Processing)	Training Program	Er. Deepak Kaushal	26/05/2026-30/05/2026
19	Hands-on Weather Monitoring Mini-Satellite Workshop	Workshop	Er. Aditya Girothia	01/06/2026
20	IPR Basics for Innovators & Entrepreneurs	Workshop	Ms. Aayushi Laad	02/06/2026

Glimpses of Research Activities 2025–26









2.5 INNOVERS, NAVONMESH & SIH (INTERNAL SMART INDIA HACKATHON & NAVONMESH)

To foster a vibrant culture of innovation, creativity, and problem-solving among students and faculty members, Dr. C.V. Raman University, Khandwa organizes a series of institutional innovation initiatives, including **Raman Navonmesh**, **Raman Innovers**, and the **Internal Smart India Hackathon (SIH)**. These programmes provide an interactive platform for participants to transform innovative ideas into practical solutions for real-world challenges through design thinking, teamwork, and technological innovation. By encouraging interdisciplinary collaboration, prototype development, entrepreneurial thinking, and participation in national innovation missions, these initiatives strengthen the University's innovation ecosystem and prepare students to contribute effectively to research, industry, and nation-building. They also serve as a foundation for identifying promising ideas, nurturing future innovators, and promoting a sustainable culture of research-driven innovation in alignment with the vision of **Atmanirbhar Bharat**, **Startup India**, and **Viksit Bharat 2047**.



3. RESEARCH AREAS AND INSTITUTIONAL RESEARCH OUTCOMES (2025-2026)

3.1 BROAD AREAS OF RESEARCH

The research ecosystem at **Dr. C.V. Raman University, Khandwa** is driven by a multidisciplinary and problem-solving approach that addresses regional needs, national priorities, and global challenges. The University promotes research across diverse disciplines by encouraging innovation, interdisciplinary collaboration, and community-oriented investigations. Guided by the philosophy of **"Research into Use,"** the broad research areas encompass science and technology, agriculture, health sciences, engineering, education, management, social sciences, environmental sustainability, artificial intelligence, food processing, Indian Knowledge Systems (IKS), renewable energy, tribal studies, and entrepreneurship. These focus areas provide a strong foundation for generating quality research, fostering innovation, developing sustainable solutions, and contributing to the socio-economic development of society while aligning with the objectives of NEP 2020, the Sustainable Development Goals (SDGs), and the vision of Viksit Bharat 2047.

3.2 RESEARCH OUTCOMES (2025-2026)

3.2.1 PH.D. AWARDED FACULTY

NUMBER OF PH.D. FACULTY REGISTERED (2025-26)	NUMBER OF FACULTY AWARDED
15	04

NO	NAME OF THE FACULTY	DEPARTMENT	RESEARCH THESIS TITLE	SUPERVISOR / AWARD YEAR
1	Mr. Yogesh Mahajan	Management	Servitude and organizational Effectiveness: Analysis of Relationship with special Reference to Shrimad Bhagvad Gita	Dr. Manish Joshi Aug 2025
2	Ms. Anupama Gour	Physical Science	Synthesis, Characterization and Study of Optical Second Harmonic Generation of Aromatic Polysuphiedes	Dr. Malyraj Das Nov 2025
3	Ms. Bhavna Rajput	Life Science	Ethnobotanical Study of Medicinal Plants used by tribal and Native People of Khandwa District (East Nimar)	Dr. Suchi Modi April 2026
4	Ms. Divya Badole	Commerce	ई-कॉमर्स एवं ई-व्यवसाय की वित्तीय स्थिति एवं संभावनाओं का विश्लेषणात्मक अध्ययन (निमाड क्षेत्र के विशेष संदर्भ में)	Dr. Pawan Kushwaha May 2026
5	Mr. Moh. Sagir	Commerce	कृषि के क्षेत्र में पॉली हाउस फार्मोंज के प्रबंधन का विश्लेषणात्मक अध्ययन	Dr. Dipesh Upadhyay May 2025





3.2.2 RESEARCH PUBLICATIONS

S. No	Department	Name of Author	Title of Research Paper	Name of Journal	ISBN NUMBER	Types of Journals	Volume	Issue	Year of Publication
1	School of Management	Ms. Bharti Choudhary	The Role of Artificial Intelligence in Transforming the Talent Acquisition Process	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS)	ISSN No. 2454-6194	UGC Listed	Volume XI	Issue VI	June 2026
2	R&I Cell, School of Pharmacy & Science	Dr. Seema Sharma, Ms. Megha Soni, Ms. Kritika Gite	Measuring the Impact of Agri-Value Addition Training through a Training Effectiveness Index (TEI): Evidence from Self-Help Group Women in the Nimar Region of Madhya Pradesh	International Journal for Multidisciplinary Research (IJFMR)	E-ISSN: 2582-2160	UGC Listed	Volume 8	Issue 3	Jun. - 2026
3	School of CS&IT	Miss Shruti Sriwas	Designing Explainable and Trustworthy AI Models for Smart Agriculture	International Journal for Multidisciplinary Research (IJFMR)	E-ISSN: 2582-2160	UGC Listed	Volume 8	Issue 3	Jun. - 2026
4	School of Management	Mr. Animesh Upadhyay1, Mr. Chetan Pandya2, Mr. Vardan Gupta3, Dr. Yogesh Mahajan4	AI Awareness in Student Pursuing Higher Studies in Nimar Region of MP	International Journal of Scientific Research in Engineering and Management (IJSREM)	ISSN: 2582-3930	UGC Listed	Volume: 10	Issue: 06	Jun. - 2026
5	School of Arts	Asst. Prof. Jyoti Gour Verma	AI and Journalism Education:	International Journal of Scientific	ISSN: 2582-	UGC Listed	Volume: 10	Issue: 06	Jun. - 2026

			Opportunities and Challenges	Research in Engineering and Management (IJSREM)	3930				
6	School of Commerce	Dr. Varun Mahajan, Arpita Rajput, Dr. Divya Badole, Sharjil Sheikh	ई-कॉमर्स के दौर में उपभोक्ता के व्यवहार को समझने में आर्टिफिशियल इंटेलिजेंस की भूमिका: डिजिटल मार्केटिंग के नए आयाम	International Journal of Creative Research Thoughts (IJCRT)	ISSN: 2320-2882	UGC Listed	Volume 14	Issue 6	Jun. - 2026
7	School of Commerce	Arpita Rajput1*, Ummehani Shaikh2	AI-Driven Fintech Solutions for Risk Assessment and Credit Scoring: Enhancing Efficiency in the MSME Sector	INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH AND TECHNOLOGY	ISSN: 2394-7063	UGC Listed	Volume 6	Issue 6	Jun. - 2026
8	School of Commerce	Dr. Divya Badole	ई-कॉमर्स के युग में उपभोक्ता आचरण पर कृत्रिम बुद्धिमत्ता का प्रभाव: त्रिजिह्वीय नवोन्नत के नवीन दृष्टिकोण	International Journal of Creative Research Thoughts (IJCRT)	ISSN: 2320-2882	UGC Listed	Volume 14	Issue 6	Jun. - 2026
9	School of Arts	Ms. Rama Sawle, Ms. Neha Bajpai, Mr. Hamja Malik	पुस्तकालयों में कृत्रिम बुद्धिमत्ता और डिजिटल पोर्टलों का बढ़ता उपयोग: अवसर और चुनौतियाँ — एक सामान्य अध्ययन	International Journal of Creative Research Thoughts (IJCRT)	ISSN: 2320-2882	UGC Listed	Volume 14	Issue 6	Jun. - 2026
10	School of Science	Ms. Saniya Shaikh, Dr. Golden Gokhale	AI-Powered Cosmetic Biotechnology: Emerging Innovations, Sustainable Business Strategies, and Digital Commerce Transformation	International Journal of Research and Scientific Innovation (IJRSI)	ISSN NO. 2321-2705	UGC Listed	Volume XIII	Issue V	Jun. - 2026
11	School of Commerce	Miss. Sejal Jhamwani	“Changing Consumer Paradigms in the Digital Economy: An Analytical Study of Traditional Grocery Stores and Organized Retail Chains in Tier-3 Cities”	TIJER – INTERNATIONAL RESEARCH JOURNAL	ISSN 2349-9249	UGC Listed	Volume 13	Issue 6	Jun. - 2026
12	School of Management	Isha katiyare	“AI-Based Decision Making for Managing Students’ Side Hustles, Academic Performance,	TIJER – INTERNATIONAL RESEARCH JOURNAL	ISSN 2349-9249	UGC Listed	Volume 13	Issue 6	Jun. - 2026

			and Career Readiness”						
13	School of Management and R&I Division	Dr. Seema Sharma ¹ , Mr. Suyash Soni ² , Mr. Aashish Rajput ³	Comparative Analysis of AI Usage among Faculty Members Based on Age and Teaching Experience	INTERNATIONAL JOURNAL OF RESEARCH AND SCIENTIFIC INNOVATION (IJRSI)	ISSN NO. 2321-2705	UGC Listed	Volume XIII	ISSUE V	Jun. - 2026
14	School of Science and R&I Division	Dr. Seema Sharma ¹ , Mr. Sandesh Daftari ² , Mr. Shivam Engla	Impact of AI Dependency on Faculty Research Creativity and Critical Thinking in Higher Education Institutions	INTERNATIONAL JOURNAL OF LATEST TECHNOLOGY IN ENGINEERING, MANAGEMENT & APPLIED SCIENCE (IJLTEMAS)	ISSN 2278-2540	UGC Listed	Volume XV,	Issue V	Jun. - 2026
15	School of Science and R&I Division	Ms. Pooja Bhalerao, Ms. Sameeksha Patidar, Dr. Seema Sharma	“Skill Bridge: Bridging the AI Skill Gap in Rural MSMEs: Evaluating the Effectiveness of Government-Led Digital Literacy and Training Programs”	INTERNATIONAL JOURNAL OF LATEST TECHNOLOGY IN ENGINEERING, MANAGEMENT & APPLIED SCIENCE (IJLTEMAS)	ISSN 2278-2540	UGC Listed	Volume XV,	Issue V	Jun. - 2026
16	School of Arts	Jyoti Gour Verma	Importance Of AI In Organizational Communication and Public Relations	INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH AND TECHNOLOGY	ISSN: 2394-7063	UGC Listed	Volume 3	Issue V	Jun. - 2026
17	Rural Technology	Aditya Girothia*, Praduman Rao Kadam, Brajesh Mandrai	Artificial Intelligence in Sustainable Water Resource Governance: A Review of AI-Driven Decision Support Systems for Commercial Water Management	INTERNATIONAL JOURNAL OF SCIENTIFIC RESEARCH AND TECHNOLOGY	ISSN: 2394-7063	UGC Listed	Volume 3	Issue V	Jun. - 2026
18	School of Commerce	Mr. Narendra Neelkanth	भारत की डिजिटल अर्थव्यवस्था और वित्तीय समावेशन पर यूनिफाइड पेमेंट्स इंटरफेस (UPI) का प्रभाव: 2016 से 2024 तक डेटा-	International Journal of Creative Research Thoughts (IJCRT)	ISSN: 2320-2882	UGC Listed	Volume 14	Issue 6	Jun. - 2026

			आधारित विश्लेषण						
19	R&I Division	Dr. Seema Sharma ¹ , Ms. Megha Soni ² , Ms. Kritika Gite ³	Human Intelligence and Artificial Intelligence in Academic Research: Creating a Balanced Framework for Higher Education	International Journal for Multidisciplinary Research (IJFMR)	E-ISSN: 2582-2160	UGC Listed	Volume 8	Issue 3	Jun. - 2026
20	School of CS&IT	Mrs. Vaidehi Soni	Deep Learning-Based Digital Marketing Decision Support Model	International Journal for Multidisciplinary Research (IJFMR)	E-ISSN: 2582-2160	UGC Listed	Volume 8	Issue 3	Jun. - 2026
21	School of Pharmacy	Ekta Verma ¹ , Gaurav bawniya ² Vinay Mahajan	Development and Evaluation of a Sustainable Nano-Herbal Spray from Turmeric and Ginger Peel Waste	Journal of Emerging Trends and Novel Research	ISSN: 2984-9276	Peer-Reviewed	Volume 4	Issue 6	Jun. - 2026
22	School of Arts	Dr. Nusrat Ara Sheikh	ग्रामीण विकास एवं MSME के क्षेत्र में, कृत्रिम बुद्धिमत्ता की भूमिका का राजनीतिक विश्लेषण (सरकारी योजनाओं, नीति क्रियान्वयन और स्थानीय प्रशासन के संदर्भ में)	International Journal of Creative Research Thoughts (IJCRT)	ISSN: 2320-2882	Peer-Reviewed	Volume 14	Issue 6	Jun. - 2026
23	School of Arts	Dr. Surbhi Dindore	हिंदी रचनात्मक लेखन पर कृत्रिम बुद्धिमत्ता का प्रभाव: एक आलोचनात्मक अध्ययन	International Journal of Creative Research Thoughts (IJCRT)	ISSN: 2320-2882	Peer-Reviewed	Volume 14,	Issue 6	Jun. - 2026
24	School of Pharmacy	Syed Wasim, Vinay Mahajan	FORMULATION STUDIES ON ANTI-HEAD LICE NANOEMULSION OF ANNONA SQUAMOSA SEED OIL	International Research Journal of Modernization in Engineering Technology and Science	e-ISSN: 2582-5208	Peer-Reviewed	Volume: 08	Issue: 05	Jun. - 2026
25	School of Vocational Education	¹ Deepak Kaushal	Reimagining Skill Development in Indian Higher Education: A NEP 2020–Aligned Integrated Skill Framework	International Journal of Novel Trends and Innovation	ISSN: 2984-908X	peer-reviewed	Volume 4,	Issue 4	April. - 2026
26	R&I Division	Dr. Nikita Nagori ¹ , Dr. Seema Sharma ² , Mr. Shivam	Clean Energy Transition and Rural Health: Assessing the Impact of Solar	INTERNATIONAL JOURNAL OF LATEST TECHNOLOG	ISSN 2278-2540	UGC Listed	Volume XV,	Issue IV,	April. - 2026

		Engla3	Energy on Indoor Air Pollution and Well-Being in Khandwa District, M.P.	Y IN ENGINEERING, MANAGEMENT & APPLIED SCIENCE (IJLTEMAS)					
27	School of Education	Ms. Vedvati pal	निमाड के पुराने आभूषणों का ऐतिहासिक और वैज्ञानिक अध्ययन	SHODH SAMALOCCHAN	ISSN 2348-5639	Peer Reviewed	Volume 3	Issue 2	April. - 2026
28	School of Education	Dr. Pooja Sharma	Breaking the Sound Barrier: An In-Depth Study of the Challenges Faced in Teaching English Pronunciation to Non-Native Speakers	ELT Voices	ISSN 2230-9136	Peer Reviewed	Volume 16	Issue 1	April. - 2026
29	School of Arts	Dr. Surbhi Dindore	महिला सशक्तिकरण और राष्ट्र निर्माण: चुनौतियाँ और संभावनाएँ	IJSSMS	ISSN: 24544655	Peer Reviewed	Volume 11		March. - 2026
30	School of CS&IT	Ms. Shruti Shriwas and Mr. Gourav Soni	"Reviving India's Herbal Heritage with AI and Cloud Computing" A Roadmap for Conservation, Cultivation, and Commercialization of Regional Medicinal Plants	International Journal of Computer Techniques–IJCT	ISSN 2394-2231	Scopus	Volume 13	Issue 1	March. - 2026
31	School of Pharmacy	Ms. Aayushi Laad	Polyherbs Ethnopharmacological And Phytochemical Studies and Formulation of Herbal Gel by Using Tridax Procumbens, G. Pentaphylla and M. Indica, Curcumin Longa for Synergistic Effect for Rheumatoid Arthritis Treatment	INTERNATIONAL JOURNAL OF INNOVATIVE RESEARCH IN TECHNOLOGY	ISSN: 2349-6002	UGC Listed	Volume 12	Issue 9	Feb. - 2026
32	School of Management	Mr. Aashish Rajput	"Consumer Behavior in the Digital Age: Theoretical Foundations, Influencing Factors, and Managerial Applications"	International Research Journal of Education and Technology	ISSN: 2581-7795	Peer Reviewed	Volume 08	Issue 07	Feb. - 2026

33	School of Agriculture	Dr. Shashikant Sharma	CRISPR/Cas9-Mediated Editing in FAD2 Gene to Enhance Oil Quality in Soybean [Glycine max (L.) Merrill]	PLOS One	E-ISSN: 1932-6203	Peer Reviewed	Volume 2	Issue -02	Feb. - 2026
34	School of Science	Dr. Anupma Gour	Theoretical Exploration of Electronic Polarizability and Optical Response in Aromatic Polysulfides	Interdisciplinary Multilingual Refereed Journal	ISSN: 2319 9318	Peer Reviewed	Volume -57	Issue -08	Feb. - 2026
35	School of Vocational Education	Mr. Deepak Kaushal	Durability Enhancement and Life-Cycle Sustainability Assessment of Self-Healing Concrete For Long Life Infrastructure	International Journal of Engineering Development and Research	ISSN: 2321-9939	UGC Listed	Volume 14	Issue 01	Feb. - 2026
36	School of Science	Dr. Anupma Gour	First-Principles Study of Second Harmonic Generation in Organic Nonlinear Optical Systems	Interdisciplinary Multilingual Refereed Journal	ISSN: 2394 5303	Peer Reviewed	Vol - 134	Issue -02	Feb. - 2026
37	School of Science	Dr. Anupma Gour	Theoretical Insights into Polysulfide Stability and Redox Behavior in Li-S Systems	Goyal Journal	ISSN: 0017-2715	Scopus	Vol -19	Issue -01	Jan. - 2026
38	School of Science	Dr. Anupma Gour	Influence of 2-Mercaptopyridine on the Structural and Functional Behavior of Polyphenylene Sulfide	IJERTV	ISSN: 22780181	Scopus	Vol -15	Issue -01	Jan. - 2026
39	School of Science	Dr. Anupma Gour	Quantum Chemical Investigation of Optical and Nonlinear Optical Properties of Functional Polymers	International Journal of Scientific Development and Research (IJS DR)	ISSN: 2455-2631	Web of Science	Volume 11	Issue 1	Jan. - 2026
40	School of Arts	Dr. Surbhi Dindore	मोहन राकेश के नाटक आधे अधूरे में स्त्री अस्मिता और लैंगिक संघर्ष का	Vidyawarta International Multilingual Research Journal	ISSN: 23199318	UGC Listed	Volume 5	Issue -57	Jan. - 2026
41	School of Arts	Dr. Surbhi Dindore	गुमशुदा चाबियों की तलाश में समकालीन जीवन बोध का विश्लेषण	Interdisciplinary Multilingual Refereed	ISSN: 23945303	Peer Reviewed	Volume 5	Issue -133	Jan. - 2026

				Journal					
42	Library	Hamja Malik	पुस्तकालयों में बदलता स्वरूप और ई-संसाधनों का उपयोग	International Journal for Multidisciplinary Research (IJFMR)	E-ISSN 2582-2160	UGC Listed	Volume 7	Issue -6	Nov. - 2025
43	R&I Division	Dr. Seema Sharma1*, Dr. Nikita Nagori2, Mr. Shivam Engla3	Evaluating The Influence of Solar Energy Access on Household Income and Employment Opportunities in Rural Khandwa	International Journal of Environmental Sciences	ISSN: 2229-7359	Scopus	Volume. 11	Issue 23	Nov. - 2025
44	School of Arts	Dr. Nusrat Ara Sheikh	भारतीय समाज में किन्नरों की दशा दिशा एक अध्ययन	शोध विमर्श	ISSN 2231-0479	Peer Reviewed	Volume	Issue	Oct. - 2025
45	School of Commerce	Ms. Arpita Rajput	देयरी उद्योगिता विकास के लिए सरकारी वित्तीय योजना का प्रभाव मूल्यांकन (मध्य प्रदेश के विशेष संदर्भ में)	International Journal of Social Science & Management Studies (I.J.S.S.M.S.)	ISSN: 2454 - 4655	Peer Reviewed	Vol. - 11,	Issue	Oct. - 2025
46	School of Commerce	Dr. Sagir and Mr. Narendra Neelkanth	प्राचीन भारतीय ज्ञान परंपरा में कृषि प्रबंधन: तकनीक, परंपरा और समकालीन प्रासंगिकता	International Journal for Multidisciplinary Research (IJFMR)	E-ISSN: 2582-2160	UGC Listed	Volume 7	Issue 5	Oct. - 2025
47	School of Agriculture	Sharda Dubey, Shubham Birla, Vishal Mandale, Shreya Malviya, Lovekesh Sawle, Deeksha Pawar, Govind Kumar, Aayushi Chaturvedi, Lakhan Ravyya	Algae-Agro Culture: Integrating Algae-Based Organic Farming for Sustainable Agriculture in the East Nimar Region of Khandwa, Madhya Pradesh	International Journal of Research in Agronomy	E-ISSN: 2618-0618 P-ISSN: 2618-060X	Scopus	Volume 8	Issue 9	Oct. - 2025
48	School of Agriculture	Sharda Dubey, Vishal Mandale, Shreya Malviya, Shubham Birla, Lovekesh Sawle, Deeksha Pawar, Govind Kumar, Aayushi	Wheat flour versus barley flour: A comprehensive review of nutritional, functional, and culinary implications of substitution in food recipes with perspectives on promoting barley cultivation	International Journal of Agriculture and Food Science 2025	ISSN Print: 2664-844X ISSN Online: 2664-8458	Scopus			Oct. - 2025

		Chaturvedi and Rahul Sharde							
49	R&I Cell	Dr. Nikita Nagori*1, Dr. Seema Sharma	1090 Harnessing Solar Energy for Rural Transformation: Insights from the Nimar Region, Madhya Pradesh, India.	Journal of Applied Bioanalysis	(ISSN 2405-710X)	Scopus	Volume 11	Issue 8	Sep. - 2026
50	School of Agriculture	Dr. Sharda Dubey	Wheat flour versus barley flour: A comprehensive review of nutritional, functional, and culinary implications of substitution in food recipes with perspectives on promoting barley cultivation	"International Journal of Agriculture and Food Science"	2664-844X	NAAS Rating	Volume 7	Issue 9	Sep-25
51	School of Management	Ms. Isha Katiyare	A Study on Recruitment and Selection Process of ICICI Prudential Life Insurance Pvt. Ltd.	An International Peer Reviewed, Refereed Multidisciplinary & Multiple Languages Quarterly Research Journal	2348-5639	Peer Reviewed	Volume 3	Issue 3	Sep-25
52	School of Education	Dr. Pooja Sharma	Beyond IQ: Examining the Role of Emotional Intelligence in Enhancing Leadership Effectiveness and Organizational Climate	Goya Journal	ISSN NO: 0017 - 2715	UGC Listed	Volume 18	Issue 09	Sep-25
53	School of CS&IT	Vaidehi Bakshi	A Data-Driven Automated Handover Mechanism for IoT Networks	International Journal of Environmental Sciences	ISSN: 2229-7359	Scopus	Volume 11	Issue 22	Sep-25
54	R&I Division	Dr. Nikita Nagori*1 Dr. Seema Sharma2	Solar Energy Adoption and Rural Livelihood Transformation: Evidence from Khandwa District, Madhya Pradesh, India	JOURNAL OF APPLIED BIOANALYSIS,	(ISSN 2405-710X)	Scopus	Volume 11	Issue 8	Aug. - 2026
55	School of Arts	Dr. Surbhi Dindore	विष्णु खरें की कविता में समकालीन यथार्थ और प्रतिरोध की निर्भीक चेतना	International Journal of Social Science & Management	ISSN: 2454-4655	UGC Listed	Volume 11	Issue 7	Aug-25

				Studies					
56	School of Pharmacy	Sandesh Kumar Daftari* and Komal Padme	Short Review Paper on Drug Lag and Rare Disease Treatments in India: An Urgent Call for Actions	Research Journal of Pharmaceutical Sciences	ISSN 2319 – 555X	Scopus	Vol. 14(1)		Aug-25
57	School of Science	Anupama Gour	Comparative Optical Analysis of Polyphenylene Sulfide and 2 Mercaptopyridine Derivatives: A Raman and UV–VIS Spectroscopic Approach Towards Nonlinear Optical Applications	POWER SYSTEM TECHNOLOGY (Elsevier journal)	ISSN: 1000-3673	Scopus	Volume 49	Issue 3	Jul-25
58	R&I Division	Dr. Ganesh Malgaya1*, Dr. Seema Sharma2, Ms. Sameeksha Patidar3, Mr. Satish Patel4, Ms. Aayushi Lad5, Mr. Mohit Tomar6, Mr. Avtar Singh Tanwar7, Ms. Jayshri Jalsingod8, Mr. Dipanshu Patel9	Novel Approach to Decrease Calcium Oxalate in Taro (Colocasia Esculenta.) Flour Processing as Intermediary Product	International Journal of Environmental Sciences	ISSN: 2229-7359	Scopus	Vol. 11	Issue 8	July - 2025

3.2.3 AWARDS & RECOGNITIONS

The academic session **2025–2026** has been marked by remarkable achievements in research and innovation by the faculty members and students of **Dr. C. V. Raman University, Khandwa**. Through their dedication to quality research, scientific excellence, and innovative contributions, they have earned prestigious awards and recognitions at national and international platforms.

This section highlights the distinguished accomplishments of our researchers, showcasing their award-winning research works, the titles of their research, the positions or categories in which they were recognized, and photographs capturing these memorable achievements. These recognitions reflect the University's commitment to fostering a vibrant research culture,

promoting academic excellence, and encouraging innovation that contributes to society and sustainable development.

Each award stands as a testament to the hard work, creativity, and scholarly excellence of our faculty and students, inspiring the university community to pursue impactful research and uphold the highest standards of academic achievement.

BEST RESEARCH UNIVERSITY – AGU ASPIRE AWARD

The Research and Innovation Team of **Dr. C. V. Raman University, Khandwa (CVRUK)** proudly received the **Best Research University Award** at the prestigious **AGU Aspire Awards**, securing this distinction among all six universities of the AGU family. This remarkable achievement reflects the University's unwavering commitment to excellence in research, innovation, and academic development. It stands as a testament to the visionary leadership of the University and the collective dedication, hard work, and collaborative spirit of the Research and Innovation Team. This recognition further motivates the University to strengthen its research ecosystem and continue contributing impactful research for society and nation-building.



IIC BEST POSTER AWARD – IIC REGIONAL MEET 2025, INDORE

Dr. C. V. Raman University, Khandwa was honored with the **IIC Best Poster Award** at the **IIC Regional Meet 2025, Indore**, in recognition of its outstanding poster showcasing the University's research-focused initiatives, achievements, and innovation ecosystem. The award acknowledged the poster's exceptional creativity, clarity of presentation, and effective communication of the University's research vision and accomplishments. This prestigious recognition reflects CVRUK's commitment to fostering a vibrant culture of research, innovation, entrepreneurship, and impactful academic excellence.



OUTSTANDING PERFORMANCE AT INDIASKILLS REGIONAL COMPETITION (WESTERN REGION) 2026

Dr. C. V. Raman University, Khandwa (CVRUK), under the AISECT Group of Universities, proudly participated in the **India Skills Regional Competition (Western Region) 2026**, held from **15–18 February 2026** at **Gandhinagar, Gujarat**. The prestigious event brought together **330 participants** competing across **63 skill categories** from **five states and one Union Territory**, providing a national platform to showcase technical excellence and vocational skills.

The University achieved remarkable success in the **Landscape Gardening** skill category, where **Mr. Goldi Mali** and **Mr. Shubham Masani**, students of **B.Sc. Agriculture**, under the guidance of **Mr. Deepak Koushal** received the **Gold Medal**, earning a cash prize of **₹75,000**. Their outstanding performance significantly contributed to **Madhya Pradesh's medal tally** and reflected the University's commitment to developing industry-relevant skills and excellence in vocational education.



DR. SEEMA SHARMA – SILVER AWARD (SECOND POSITION) – BEST RESEARCH POSTER PRESENTATION

Dr. Seema Sharma, Director, Research & Innovation Cell, **Dr. C. V. Raman University, Khandwa**, was honored with the **Silver Award (Second Position)** for **Best Research Poster Presentation** at the **National Science Teachers' Conference & EWIOS**. The award recognized the quality, originality, and scientific significance of her research presentation. This prestigious achievement reflects her commitment to advancing research excellence and promoting innovation through impactful scientific contributions. The recognition serves as an inspiration for researchers and students to pursue high-quality research with dedication and academic integrity.



MS. KOMAL PADME – BRONZE AWARD (THIRD POSITION) – BEST RESEARCH EXHIBITION PRESENTATION

Ms. Komal Padme of **Dr. C. V. Raman University, Khandwa**, received the **Bronze Award (Third Position)** for **Best Research Exhibition Presentation** at the **National Science Teachers' Conference & EWIOS**. The award acknowledged her innovative research presentation, effective communication, and scientific approach. This accomplishment highlights the University's commitment to nurturing young researchers and encouraging excellence in research, innovation, and scientific outreach.



MS. SWATI ATRE – JYESHTHA ACHARYA AWARD – BHARAT EDUCATION EXCELLENCE AWARDS 2025

Ms. Swati Atre of Dr. C. V. Raman University, Khandwa (M.P.), was honored with the prestigious Jyeshtha Acharya Award at the Bharat Education Excellence Awards 2025 in recognition of her exemplary contribution to the fields of **Research and Education**. This distinguished honor acknowledges her dedication to academic excellence, innovative research, and her significant role in promoting quality higher education. The award reflects her unwavering commitment to nurturing a research-oriented academic environment and inspiring students and scholars through excellence in teaching, research, and mentorship.



MS. VAIDEHI SONI, MR. GOURAV SONI & MS. SHRUTI SRIWAS – GOLD PRIZE (SECOND POSITION), RNTU SHODH SHIKHAR 2026

Ms. Vaidehi Soni, Mr. Gourav Soni, and Ms. Shruti Sriwas were awarded the **Gold Prize (Second Position)** at RNTU Shodh Shikhar 2026 for their innovative research project titled **"AI-Enabled System for Accurate Tomato Ripeness Detection in Precision Agriculture."** The project was presented under the theme **"Sustainable Agriculture, Food Security, and Rural Development"** and demonstrated the application of Artificial Intelligence to enhance precision farming through accurate tomato ripeness detection. This achievement recognizes the team's innovative approach toward promoting sustainable agricultural practices, improving crop quality, and contributing to food security through technology-driven research.



MR. ANOSH RAOJI – MEDALLION FOR EXCELLENCE (INDIASKILLS REGIONAL COMPETITION 2026)

Mr. Anosh Raoji of Dr. C. V. Raman University, Khandwa, was honored with the prestigious Medallion for Excellence at the IndiaSkills Regional Competition (Western Region) 2026. The award recognizes participants who demonstrate exceptional technical competence, professional skills, and outstanding performance at the national level. His achievement further strengthened the University's remarkable performance at the competition and reflected the high standards of skill development and vocational excellence nurtured at CVRUK.



MR. NEERAJ – GOLD PRIZE (SECOND POSITION), RNTU SHODH SHIKHAR 2026

Mr. Neeraj, under the guidance of Ms. Megha Soni, received the Gold Prize (Second Position) at RNTU Shodh Shikhar 2026 for the research project titled "Eco-Friendly Pencil Manufacturing from Banana Stem Waste: A Low-Cost & Sustainable Innovation." The project showcased an innovative and sustainable solution for converting agricultural waste into

eco-friendly pencils, promoting environmental conservation and resource utilization. This achievement reflects the University's commitment to fostering research excellence, innovation, and sustainable development.



ANOSH RAOJI & MAHAK SONI – SCIENCE PROJECT AWARD, 29TH YUVA UTSAV

Mr. Anosh Raoji and Ms. Mahak Soni, students of **B.Sc. (PCM), Semester III**, received recognition for their innovative science project "**Raman Vending Machine**" at the **29th Yuva Utsav**, organized by the **Department of Sports and Youth Welfare**. Their project secured the **First Prize at the District Level** and subsequently won the **Third Prize at the Divisional Level**, demonstrating its scientific relevance, innovation, and practical application. This remarkable achievement reflects the students' research aptitude and creativity while showcasing **Dr. C. V. Raman University, Khandwa's** commitment to promoting innovation, research-based learning, and scientific excellence among young researchers.



MR. MANISH PATEL – THIRD PRIZE, DISTRICT LEVEL, 29TH YUVA UTSAV

Mr. Manish Patel, a student of B. Pharmacy (3rd Year, Semester VI) at Dr. C. V. Raman University, Khandwa, under the guidance of Ms. Devyani Kanungo, received the Third Prize at the District Level for his innovative research project titled "Towards Sustainable Agro-Pharmaceuticals: Comparative Potential of Gajarghaas (*Parthenium hysterophorus*), Neem (*Azadirachta indica*), and Tulsi (*Ocimum sanctum*) as Eco-Friendly Herbal Insecticides and Their Residual Toxicity on Consumable Crops" at the 29th Yuva Utsav, organized by the Department of Sports and Youth Welfare. The project was carried out under the mentorship of Ms. Devyani Kanungo and highlighted the potential of eco-friendly herbal insecticides as sustainable alternatives for agricultural applications. This achievement reflects the University's commitment to promoting innovative, environmentally sustainable, and research-driven solutions to real-world challenges.



3.2.4 PATENT

S. N O.	TITLE OF THE PATENT PUBLISHED/AWARDED	NAME OF PI/CO-PI AFFILIATED TO UNIVERSITY	PATENT NUMBER	UNIVERSITY	YEAR OF PUBLICATION	YEAR OF GRANTED/AWARD
1	Method For Producing Calcium Oxalate Reduced Taro Flour Using Optimized Soaking and Drying Techniques	1.Dr. C.V. Raman University, Khandwa 2.Dr. Ganesh Malgaya 3.Dr. Seema Sharma 4.Ms. Samiksha Patidar	577923	Dr. C.V. Raman University Khandwa	Dec- 25	Granted 12/1/2026
2	PORTABLE ANAEROBIC AND METHANIZATION	1)Dr. C. V. Raman University,	20252106700 3.00	Dr. C.V. Raman University Khandwa	26-Jan	Published

	DIGESTION SYSTEM WITH REAL- TIME MONITORING FOR BIOGAS GENRATION USING IPOMOEA CARNEA, PARTHENIUM HYSTEROPHORS AND COW DUNG	Khandwa 2)Dr. Arun R. Joshi 3)Dr. Seema Sharma 4)Mr. Sandesh Daftari 5)Mr. Shivam Engla 6)Ms. Pooja Bhalerao				
3	AI BASED DEVICE FOR PRECISION MEDICINE & TREATMENT	Ms. Devyani Kanungo	466832-001	Dr. C.V. Raman University Khandwa	Oct-25	Granted Oct-25
4	Drawbacks Of Practicing Intensive Agriculture	Mansha Makhija Dr. Shashikant Sharma	LD-20250164960	Dr. C.V. Raman University Khandwa	Sep-25	Granted Sep-25
5	Symptoms, Disease Cycle, and Control Measures of Clubroot Disease in Cauliflower	APARNNA RANI SWAIN DR. VISHAL TRIPATHI DR. DEVEN VERMA DR. SHASHIKANT SHARMA	LD-20250171848	Dr. C.V. Raman University Khandwa	Sep-25	Granted Sep-25
6	AI Based Device For In vivo Experimental Studies	Dr. S. Farook Dr. Gagan Chawla Mr. Amo; There Ms. Aaysuhi Laad, Mr. Vinay Mahajan, Mr. Syed Wasim	504117-001	Dr. C.V. Raman University Khandwa	Jun 2026	Filed

3.2.5 BOOK CHAPTERS

S. NO	BOOK CHAPTER	TITLE OF THE BOOK/CHAPTERS PUBLISHED	NAME OF UNIVERSITY	DEPARTMENT	AUTHORS	ISBN NO	PUBLISHER	PAGE NO.	YEAR OF PUBLICATION
1	SHODH SHIKHAR -2026 Business, Management and Green Economy	HR Analytics for Sustainable Workforce Management: A Lifecycle Approach to employee Retention in IT Companies	Dr. C.V Raman University Khandwa	School of Management	Deepak Sharma1, Dr. Jiny Jacob2	ISBN: 978-93-7912-062-5	Rabindranath Tagore University	292-299	Jun-26
2	SHODH SHIKHAR -2026 Modern Science for Societal Impact	A Novel 2-Mercaptopyridine Coating for Polymer Substrates: Antimicrobial Efficacy and Application Potential	Dr. C.V Raman University Khandwa	School of Science	Dr. Anupama Gour, Sameeksha Patidar	ISBN: 978-93-7912-736-5	Rabindranath Tagore University	19-26	Jun-26

S. N O	BOOK CHAPTER	TITLE OF THE BOOK/CHAPTERS PUBLISHED	NAME OF UNIVERSITY	DEPARTMENT	AUTHORS	ISBN NO	PUBLISHER	PAGE NO.	YEAR OF PUBLICATION
3	SHODH SHIKHAR -2026 Modern Science for Societal Impact	Angiospermic Plants of C.V. Raman University Campus, Chhaigaon maakhan Khandwa (M.P.)	Dr. C.V Raman University Khandwa	School of Science	Bhavna Rajput, Shivam Engla	ISBN: 978-93-7912-736-5	Rabindranath Tagore University	27-34	Jun-26
4	SHODH SHIKHAR -2026 Modern Science for Societal Impact	Sustainable Nano-Herbal SprayDeveloped from Turmeric and Ginger Peel Waste	Dr. C.V Raman University Khandwa	School of Pharmacy	Megha Soni, Ekta Verma, Gaurav Bawniya	ISBN: 978-93-7912-736-5	Rabindranath Tagore University	40-46	Jun-26
5	SHODH SHIKHAR -2026 Modern Science for Societal Impact	Fractal Art Space: Exploring Patterns, Science & Innovation	Dr. C.V Raman University Khandwa	School of Pharmacy	Mahak Soni, Anosh Raoji, Savita Thakur, Kritika Gite	ISBN: 978-93-7912-736-5	Rabindranath Tagore University	54-57	Jun-26
6	SHODH SHIKHAR -2026 Modern Science for Societal Impact	Treatment of Different Water Samples with the Oil of Moringa Oleifera for Purification Process	Dr. C.V Raman University Khandwa	School of Science	Dr. Aancha, Dr. Seema Sharma, Megha Soni, Pooja Bhalerao, Sukhdev Kumrawat, Ayushi Laad	ISBN: 978-93-7912-736-5	Rabindranath Tagore University	156-161	Jun-26
7	SHODH SHIKHAR -2026 Modern Science for Societal Impact	Social Determinants of Mental Health	Dr. C.V Raman University Khandwa	Student	Bhumika Yadav	ISBN: 978-93-7912-736-5	Rabindranath Tagore University	162-166	Jun-26
8	SHODH SHIKHAR -2026 Modern Science for Societal Impact	Mathematical Modeling of Barriers Affecting Women's Participation and Advancement in STEM	Dr. C.V Raman University Khandwa	School of Pharmacy	Megha Soni	ISBN: 978-93-7912-736-5	Rabindranath Tagore University	167-171	Jun-26
9	SHODH SHIKHAR -2026 Modern Science for Societal Impact	महिला सोशल मीडिया उपयोगकर्ताओं में साइबर बुलिंग और मानसिक स्वास्थ्य: (कोविड-19 के बाद का सामाजिक अध्ययन)	Dr. C.V Raman University Khandwa	School of Vocational Education	Vivek Maheshwary	ISBN: 978-93-7912-736-5	Rabindranath Tagore University	176-186	Jun-26

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10	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	Community Health and Traditional Food Literacy Among Tribes of the Nimar Region (Nimar) in Madhya Pradesh	Dr. C.V Raman University Khandwa	School of Paramedical	Rohan Singh Kushwah.PT	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	1--5	Jun-26
11	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	The Impact of Sleep Quality on Cognitive Behavior: A Systematic Review	Dr. C.V Raman University Khandwa	School of Education	Sufiya Anjum, Dr. Swati Pathak	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	6--8	Jun-26
12	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	Nurturing fertility through yoga: A Natural Approach to Support Conventional Treatment	Dr. C.V Raman University Khandwa	Student	Adeeba Khan	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	9--11	Jun-26
13	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	Managing Mental Health during Menopause: A Comprehensive Guide for Enhancing Women's Quality of Life	Dr. C.V Raman University Khandwa	School of Paramedical	Dr. Fiona Edwards (PT)	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	12--17	Jun-26

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14	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	Assessment of Antioxidant Potential and Antimicrobial Susceptibility of Terminalia Bellirica Against Pathogen (Terminalia Chebula)	Dr. C.V Raman University Khandwa	School of Paramedical	Sukhdev Kumrawat	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	18-27	Jun-26
15	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	The Impact of Academic Pressure on Mental health of Students	Dr. C.V Raman University Khandwa	School of Education	Saniya Sheikh, Dr Swati Pathak	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	203-206	Jun-26
16	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	Social Determinants of Mental Health among College Students in Madhya Pradesh: A Review with Policy Perspective	Dr. C.V Raman University Khandwa	Student	Bhumika Yadav	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	227-229	Jun-26
17	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	Innovative Formulation and Development of a Nutrient-Dense Rice Flour Papad Fortified with Beetroot Leaf Powder	Dr. C.V Raman University Khandwa	School of Pharmacy	Devyani Kanungo	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	279-285	Jun-26

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19	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	Sustainable Water Purification Using Herbal Plants: Eco-Friendly Approaches for Safe Drinking Water	Dr. C.V Raman University Khandwa	School of Pharmacy	Kesar Namdev, Shikha, Megha Soni	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	295-300	Jun-26
20	SHODH SHIKHAR -2026 Holistic Health, Wellness, and Environmental Well-being	युवाओं में मानसिक स्वास्थ्य सम्बन्धी समस्याएं – कारण और प्रभाव	Dr. C.V Raman University Khandwa	School of Education	Gunjan Johari, Dr. Swati Pathak	ISBN: 978-93-7912-370-1	Rabindranath Tagore University	346-352	Jun-26
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22	SHODH SHIKHAR -2026 Engineering, Technology, and Green Innovation	Design and Development of Mini HPTLC Chamber Integrated with UV Cabinet	Dr. C.V Raman University Khandwa	School of Pharmacy	Krishna Verma, Shaad Shaikh, Megha Soni	ISBN: 978-81-999502-3-8	Rabindranath Tagore University	94-97	Jun-26

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24	SHODH SHIKHAR -2026 Engineering, Technology, and Green Innovation	Machine Learning, Artificial Intelligence, and the Future of Modern Construction	Dr. C.V Raman University Khandwa	Student	Sharansh Jha	ISBN: 978-81-999502-3-8	Rabindranath Tagore University	224-226	Jun-26
25	SHODH SHIKHAR -2026 Engineering, Technology, and Green Innovation	The Future of Programming in The Age of Artificial General Intelligence (AGI)	Dr. C.V Raman University Khandwa	School of CS&IT	Shruti Sriwas	ISBN: 978-81-999502-3-8	Rabindranath Tagore University	248-250	Jun-26
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27	SHODH SHIKHAR -2026 Engineering, Technology, and Green Innovation	Evaluating the Role of Animal-Based Transportation in Preserving Non-Renewable Resources and Reducing Environmental Footprints	Dr. C.V Raman University Khandwa	School of Vocational Education	Deepak Kaushal	ISBN: 978-81-999502-3-8	Rabindranath Tagore University	385-391	Jun-26

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28	SHODH SHIKHAR -2026 Engineering, Technology, and Green Innovation	Seasonal Dynamics of Water Pollution and Enhanced Purification Efficiency Using Emulsified Moringa Oil: A Comparative Study of Rainy and Winter Seasons	Dr. C.V Raman University Khandwa	School of Science and R&I Cell	Pooja Bhalerao, Dr. Seema Sharma, Sukhdev Kumrawat, Dr. Aanchal, Ayushi Laad, Megha Soni	ISBN: 978-81-999502-3-8	Rabindranath Tagore University	540-547	Jun-26
29	SHODH SHIKHAR -2026 Engineering, Technology, and Green Innovation	An Empirical Review of Blockchain Technology and Its Future Potential	Dr. C.V Raman University Khandwa	Student	Saloni Patel, Prachi Soni	ISBN: 978-81-999502-3-8	Rabindranath Tagore University	548-553	Jun-26
30	SHODH SHIKHAR -2026 Engineering, Technology, and Green Innovation	भारत में हरित प्रौद्योगिकियों के लिए कराधान नीतियां एवं प्रोत्साहन	Dr. C.V Raman University Khandwa	Student	Swati Yadav	ISBN: 978-81-999502-3-8	Rabindranath Tagore University	554-558	Jun-26
31	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Experimental Analysis of V.C.R.S. with and without Pulse Width Modulation Technique to Reduce Power Consumption and to Improve C.O.P for Supermarket Refrigeration System	Dr. C.V Raman University Khandwa	School of Rural Technology	Nitesh Kumar Mishra	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	31-43	Jun-26
32	SHODH SHIKHAR -2026 Sustainable Agriculture, Food	Innovative AI Solutions for Food Security, Accelerating Agricultural Growth and Sustainability an	Dr. C.V Raman University Khandwa	School of Agriculture	Lovekesh Sawle, Sharda Dubey	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	44-48	Jun-26

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34	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Effectiveness of a Natural Aloe Vera–Hibiscus Formulation for Leucorrhea: Insights from a Rural Health Survey and Data Analysis	Dr. C.V Raman University Khandwa	School of Science	Pooja Bhalerao, Ravina Rawat, Sumit Patidar	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	57-64	Jun-26
35	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Integrated Sustainable Smart Agriculture Model (ISSAM)	Dr. C.V Raman University Khandwa	Harda	Swati Guru, Umesh Sharma, Pritam Devda	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	65-67	Jun-26
36	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Decoding Auxin–Cytokinin Cross-talk to Enhance Agrobacterium-Mediated Transformation in Groundnut (Arachis hypogaea L.)	Dr. C.V Raman University Khandwa	School of Agriculture	Aayushi Chaturvedi, Shubham Birla, Sharda Dubey	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	68-76	Jun-26
37	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security,	Sustainable Agriculture and Crop Production: An Analysis with Special Reference to Vision of Viksit Bharat	Dr. C.V Raman University Khandwa	School of Management	Dr. Yogesh Mahajan	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	77-78	Jun-26

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38	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Assessment of Calcium–Silicate Hybrid Fertilizer Derived from Eggshell Waste and Sugarcane Bagasse Ash: A Waste-to-Wealth Approach for Sustainable Agriculture in the Nimar Region	Dr. C.V Raman University Khandwa	R&I Cell	Dr. Seema Sharma, Dr. Aanchal, Sandesh Kumar Daftari	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	136-140	Jun-26
39	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Decentralized Production of Microbial Inoculants: A Scalable Model for Enhancing Smallholder Agricultural Sustainability	Dr. C.V Raman University Khandwa	Harda	Umesh Sharma, Dilip Jamre, Satyam Yogi, Manish Yadav	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	196-197	Jun-26
40	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Revitalizing Degraded Soil Ecosystems: The S2K2 Regenerative Model for Scalable Chemical-Free Food Production	Dr. C.V Raman University Khandwa	Harda	Umesh Sharma, Satyam Yogi, Dilip Jamre, Manish Yadav	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	198-199	Jun-26
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42	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security,	Sustainable Bio nanocomposite Films with Enhanced Antimicrobial and Barrier Properties using Biosynthesized	Dr. C.V Raman University Khandwa	School of Pharmacy	Aayushi Laad	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	225-231	Jun-26

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43	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Effect of organic manures on crop growth and productivity of Soybean	Dr. C.V Raman University Khandwa	School of Agriculture	Deeksha Pawar, Vishal Mandle, Sharda Dubey	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	232-238	Jun-26
44	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Integrating AI with Agri-Tech Startups to Build a Resilient Food System for Viksit Bharat	Dr. C.V Raman University Khandwa	School of CS&IT	Ganesh Nimje	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	239-246	Jun-26
45	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	AI- and IoT-Guided Transition to Low-Chemical and Organic Farming: Ensuring No Yield Loss and Gradual Productivity Gains	Dr. C.V Raman University Khandwa	School of CS&IT	Gaurav Soni	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	247-255	Jun-26
46	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Increasing Farmers Income through Sustainable Traditional Agriculture Practices in India	Dr. C.V Raman University Khandwa	School of Agriculture	Sharda Dubey	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	256-263	Jun-26
47	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security,	Smart Agriculture and AI-Driven Food Systems for a Viksit Bharat	Dr. C.V Raman University Khandwa	School of CS&IT	Vaidehi Soni	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	264-270	Jun-26

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49	SHODH SHIKHAR -2026 Sustainable Agriculture, Food Security, and Rural Innovation	Sustainable Agricultural Outcomes Through Organic Farming Practices an overview	Dr. C.V Raman University Khandwa	School of Agriculture	Yashavi Singh Parihar, Sharda Dubey, Prateek Patidar	ISBN: 978-81-999502-7-6	Rabindranath Tagore University	278-282	Jun-26
50	SHODH SHIKHAR -2026 Humanities, Arts, and Sustainable Societies	Eco-Governance Principles in Ramcharitmanas: A Framework for Sustainable Development Goals	Dr. C.V Raman University Khandwa	School of Management	Aashish Rajput	ISBN: 978-93-7912-285-8	Rabindranath Tagore University	22-26	Jun-26
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54	SHODH SHIKHAR -2026 Humanities, Arts, and Sustainable Societies	सामाजिक विकास में पुस्तकालयों की भूमिका	Dr. C.V Raman University Khandwa	School of Arts	Rama Sawle, Hamja Malik	ISBN: 978-93-7912-285-8	Rabindranath Tagore University	152-157	Jun-26
55	SHODH SHIKHAR -2026 Humanities, Arts, and Sustainable Societies	मानव जीवन की चुनौतियों के समाधान में आध्यात्मिक मार्गदर्शन की भूमिका: श्री धूनी वाले दादा जी के सामाजिक योगदान का अध्ययन	Dr. C.V Raman University Khandwa	School of Arts	Jyoti verma gour	ISBN: 978-93-7912-285-8	Rabindranath Tagore University	158-164	Jun-26
56	SHODH SHIKHAR -2026 Humanities, Arts, and Sustainable Societies	भारतीय ज्ञान परंपरा के संरक्षण में पुस्तकालयों की भूमिका	Dr. C.V Raman University Khandwa	School of Arts	Neha Shukla bajpai	ISBN: 978-93-7912-285-8	Rabindranath Tagore University	165-169	Jun-26
57	SHODH SHIKHAR -2026 Humanities, Arts, and Sustainable Societies	विकसित भारत के सांस्कृतिक निर्माण में साहित्य और कलाओं की भूमिका: वैश्विक परिप्रेक्ष्य में एक अध्ययन	Dr. C.V Raman University Khandwa	School of Arts	Dr. Surbhi Dindore	ISBN: 978-93-7912-285-8	Rabindranath Tagore University	170-178	Jun-26
58	SHODH SHIKHAR -2026 Humanities, Arts, and Sustainable Societies	सतत शिक्षा के लिए पारंपरिक बनाम नवोन्मेषी शिक्षण दृष्टि के मध्य तुलनात्मक अध्ययन हरित क्रांति के परिप्रेक्ष्य में	Dr. C.V Raman University Khandwa	School of Education	Vedvati pal	ISBN: 978-93-7912-285-8	Rabindranath Tagore University	229-234	Jun-26
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60	SHODH SHIKHAR -2026 Indian Knowledge	Eco-Friendly Pencil Manufacturing from Banana Stem Waste: A Low-	Dr. C.V Raman University Khandwa	School of Pharmacy	Neeraj Upasiya, Megha Soni	ISBN: 978-93-7912-510-1	Rabindranath Tagore University	11--13	Jun-26

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61	SHODH SHIKHAR -2026 Indian Knowledge Systems and Sustainable Innovation	भारतीय संस्कृति पर आधारित शिक्षा से युवाओं में व्यक्तित्व का विकास: एक विश्लेषणात्मक अध्ययन	Dr. C.V Raman University Khandwa	School of Arts	Devas Uikey	ISBN: 978-93-7912-510-1	Rabindranath Tagore University	26-33	Jun-26
62	SHODH SHIKHAR -2026 Indian Knowledge Systems and Sustainable Innovation	रामायण एक प्रबंधकीय दृष्टिकोण: सतत विकास का एक आधार स्तंभ	Dr. C.V Raman University Khandwa	School of Commerce	Dr. Varun Mahajan, Arpita Rajput	ISBN: 978-93-7912-510-1	Rabindranath Tagore University	34-41	Jun-26
63	SHODH SHIKHAR -2026 Indian Knowledge Systems and Sustainable Innovation	जनजातीय समाज का राष्ट्र-निर्माण में योगदान: एक विश्लेषणात्मक अध्ययन	Dr. C.V Raman University Khandwa	School of Arts	Jassu Rawat	ISBN: 978-93-7912-510-1	Rabindranath Tagore University	42-47	Jun-26
64	SHODH SHIKHAR -2026 Indian Knowledge Systems and Sustainable Innovation	पगल्या पारंपरिक लोककला से प्राकृतिक रंगों के वैज्ञानिक और व्यावसायिक उत्पाद बनाने का एक समग्र अध्ययन	Dr. C.V Raman University Khandwa	School of Arts	Dr. Nusrat Ara Sheikh	ISBN: 978-93-7912-510-1	Rabindranath Tagore University	48-56	Jun-26
65	Shodh Shikhar 2026 INTERNATIONAL CONFERENCE ON INNOVATIONS FOR IMPACT: ADVANCING	A Comparative Study on How Financial Literacy Shapes Saving Behavior: Evidence from Youth and Working Professionals	Dr. C.V Raman University Khandwa	School of Management	Suyash Soni	ISBN: 978-93-7912-062-5	Rabindranath Tagore University	44-54	Jun-26

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	GREEN TECHNOLOGIES AND SDGs)								
66	Shodh Shikhar 2026 INTERNATIONAL CONFERENCE ON INNOVATIONS FOR IMPACT: ADVANCING GREEN TECHNOLOGIES AND SDGs)	Integrating Panchkosh Model in HRM: A Holistic Approach to Employee Wellness and Sustainable Organizational Growth	Dr. C.V Raman University Khandwa	School of Management	Isha Katiyare	ISBN: 978-93-7912-062-5	Rabindranath Tagore University	68-74	Jun-26
67	Shodh Shikhar 2026 INTERNATIONAL CONFERENCE ON INNOVATIONS FOR IMPACT: ADVANCING GREEN TECHNOLOGIES AND SDGs)	हरित वित्त और भारत : सतत विकास को बढ़ावा देने में वित्तीय संस्थानों को भूमिका	Dr. C.V Raman University Khandwa	School of Commerce	Narendera Neelkanth	ISBN: 978-93-7912-062-5	Rabindranath Tagore University	292-298	Jun-26
68	Shodh Shikhar 2026 INTERNATIONAL CONFERENCE ON INNOVATIONS FOR IMPACT: ADVANCING GREEN TECHNOLOGIES AND	A Study on Sustainable Business Models for MSMEs in India	Dr. C.V Raman University Khandwa	School of Management	Ummehani Shaikh	ISBN: 978-93-7912-062-5	Rabindranath Tagore University	255-260	Jun-26

S. N O	BOOK CHAPTER	TITLE OF THE BOOK/CHAPTERS PUBLISHED	NAME OF UNIVERSITY	DEPARTMENT	AUTHORS	ISBN NO	PUBLISHER	PAGE NO.	YEAR OF PUBLICATION
	SDGs)								
69	Shodh Shikhar 2026 Law, Governance and Environmental Policy	Regulatory Sandboxes for Green Technologies: Reimagining Environmental Law and Governance for Accelerated SDG Achievement	Dr. C.V Raman University Khandwa	School of Commerce	Dr. Seema Sharma, Aayush Raut	ISBN: 978-93-7912-106-6	Rabindranath Tagore University	99-106	Jun-26
70	Shodh Shikhar 2026 Law, Governance and Environmental Policy	भारत में हरित नीति एवं सतत विकास लक्ष्य : उपलब्धियाँ एवं चुनौतियाँ	Dr. C.V Raman University Khandwa	School of Commerce	Arpita Rajput, Narendra Neelkanth	ISBN: 978-93-7912-106-6	Rabindranath Tagore University	145-158	Jun-26
71	Shodh Shikhar 2026 (Education for Innovation and Sustainability)	Preparing Teachers for Innovation and Sustainability: A Study of Teacher Education Programs	Dr. C.V Raman University Khandwa	School of Education	Dr. Pooja Sharma	ISBN: 978-93-7912-391-6	Rabindranath Tagore University	17-22	Jun-26
72	Shodh Shikhar 2026 (Education for Innovation and Sustainability)	Attitude of Prospective Teachers Towards Innovative Educational Practices for Advancing Quality Education (SDG 4)	Dr. C.V Raman University Khandwa	School of Education	Dr. Archana Kumari	ISBN: 978-93-7912-391-6	Rabindranath Tagore University	23-33	Jun-26
73	Shodh Shikhar 2026 (Education for Innovation and Sustainability)	स्टीम शिक्षा के माध्यम से हरित प्रौद्योगिकी का संवर्धन: विकसित भारत 2047 की दिशा में एक अध्ययन	Dr. C.V Raman University Khandwa	School of Education	Swati Shriwas, Dr. Pooja Sharma	ISBN: 978-93-7912-391-6	Rabindranath Tagore University	103-111	Jun-26

S. N O	BOOK CHAPTER	TITLE OF THE BOOK/CHAPTERS PUBLISHED	NAME OF UNIVERSITY	DEPARTMENT	AUTHORS	ISBN NO	PUBLISHER	PAGE NO.	YEAR OF PUBLICATION
74	Shodh Shikhar 2026 (Education for Innovation and Sustainability)	एकीकृत शिक्षक शिक्षा कार्यक्रम - चुनौतियां, चिंताएं और लाभ	Dr. C.V Raman University Khandwa	School of Education	Dr. Mohd. Sagir	ISBN: 978-93-7912-391-6	Rabindranath Tagore University	112-125	Jun-26
75	Shodh Shikhar 2026 (Education for Innovation and Sustainability)	ग्रीन इनोवेशन लैब्स: शिक्षा में सतत ऊर्जा नवाचार की नई दिशा	Dr. C.V Raman University Khandwa	School of Education	Swati Shriwas	ISBN: 978-93-7912-391-6	Rabindranath Tagore University	116-121	Jun-26
76	Shodh Shikhar 2026 (Education for Innovation and Sustainability)	शिक्षा प्रणाली में नवाचार और हरित सोच का एकीकरण	Dr. C.V Raman University Khandwa	School of Education	Swati Shriwas, Rakshanda Tabassum	ISBN: 978-93-7912-391-6	Rabindranath Tagore University	162-166	Jun-26
77	Artificial Intelligence And Digital Transformation: Trends, Challenges , And Future Directions	Artificial Intelligence In Higher Education With Opportunities, Challenges And Future Prospects	Dr. C.V Raman University Khandwa	School of CS&IT	Ms. Swati Atre	ISBN: 978-91-4100-220-3	RED'SHINE PUBLICATION	61 -69	May-26
78	Emerging Horizons in Humanities, Commerce and Management	आधुनिक साहित्य और संस्कृति: एक मौलिक एवं विश्लेषणात्मक अध्ययन	Dr. C.V Raman University Khandwa	School of Education	Ms. Swati Shrivastava	ISBN: 978-93-47587-01-6	Bhumi Publishing	141 – 148	May-26
79	Emerging Horizons in Humanities, Commerce and Management	लोकतंत्र और मानवाधिकार: एक अध्ययन	Dr. C.V Raman University Khandwa	School of Education	Dr. Swati Pathak	ISBN: 978-93-47587-01-6	Bhumi Publishing	133 – 140	May-26

S. N O	BOOK CHAPTER	TITLE OF THE BOOK/CHAPTERS PUBLISHED	NAME OF UNIVERSITY	DEPARTMENT	AUTHORS	ISBN NO	PUBLISHER	PAGE NO.	YEAR OF PUBLICATION
	nt								
80	fuels for sustainable transportation	Escalating methanization in old conventional biogas units and developing the supply chain of Kamdhenu Natural Gas	Dr. C.V Raman University Khandwa	R&I Division	Arun R. Joshi, Seema Sharma, Shivam Engla, Sandesh Daftari, and Pooja Bhalerao	ISBN: 978103 287830 0 (hbk) ISBN: 978103 287831 7 (pbk) ISBN: 978100 353467 9 (ebk)	CRC Press	197-213	Mar-26
81	ANUSADHAN ABHIKLP NA	शैक्षणिक गुणवत्ता को बढ़ाता पर्यटनS	Dr. C.V Raman University Khandwa	School of Arts	Ms. Padma Hada	ISBN No. 978-93-48835-47-5	Vaibhav Prakashan Raipur	18-19	25-Dec
82	ANUSADHAN ABHIKLP NA	निमाड़ के आर्थिक विकास में पर्यटन की भूमिका: एक विश्लेषणात्मक अध्ययन	Dr. C.V Raman University Khandwa	School of Commerce	Dr. Varun Mahajan	ISBN No. 978-93-48835-47-5	Vaibhav Prakashan Raipur	20-22	25-Dec
83	ANUSADHAN ABHIKLP NA	Scientific challenges and physical limits - Exploring the final frontier	Dr. C.V Raman University Khandwa	School of Science	Anupama Gour	ISBN No. 978-93-48835-47-5	Vaibhav Prakashan Raipur	46-48	25-Dec
84	ANUSADHAN ABHIKLP NA	मध्य प्रदेश के निमाड़ क्षेत्र के उपेक्षित मंदिरों का सांस्कृतिक मूल्यांकन एवं धार्मिक पारंपरिक क्षेत्रों में बिगड़ते पर्यावरण का अध्ययन	Dr. C.V Raman University Khandwa	R&I Division and School of Arts	Dr. Seema Sharma, Mr. Devash Uikey	ISBN No. 978-93-48835-47-5	Vaibhav Prakashan Raipur	51-57	25-Dec
85	Compendium of Selected Research Papers Shodh-Shikhar24	"Unlocking the potential of Apigenin from chamomile: A novel Approach for skin cancer cell intervention"	Dr. C.V Raman University Khandwa	R&I Division	Sandesh Kumar Daftari	ISBN No. : 978-93-49524-12-5	Volume	47-51	Aug-25

S. N O	BOOK CHAPTER	TITLE OF THE BOOK/CHAPTERS PUBLISHED	NAME OF UNIVERSITY	DEPARTMENT	AUTHORS	ISBN NO	PUBLISHER	PAGE NO.	YEAR OF PUBLICATION
86	SHODH SHIKHAR VIGYAN PARV-2025 Advances in Science and Agriculture: Addressing Global Challenges	Mathematical Modeling to Minimize the Total Cost in Onion Supply Chain	Dr. C.V Raman University Khandwa	School of Pharmacy	Megha Soni	ISBN No. 978-93-49524-33-0	Vol.2	103-109	Aug-25
87	SHODH SHIKHAR VIGYAN PARV-2025 Research in Education & Law: Critical Issues and Future Directions for Viksit Bharat	gkbZ Ldwy Lrj dh Nk=kvksa dh O;kolkf;d :fp ij muds ikfjokfjd okrkoj.k ds izHkko dk v/;;u	Dr. C.V Raman University Khandwa	School of Education	Dr. Swati Pathak	ISBN: 978-93-49524-37-8	Volume: 4	246-250	Aug-25
88	SHODH SHIKHAR VIGYAN PARV-2025 Research in Education & Law: Critical Issues and Future Directions for Viksit Bharat	Decoding Gen Z: The Impact of Social Media on Online Shopping Preferences in Khandwa City	Dr. C.V Raman University Khandwa	R&I Division	Dr. Seema Sharma , Aayush Raut	ISBN: 978-93-49524-37-8	Volume: 4	112-116	Aug-25
89	SHODH SHIKHAR VIGYAN PARV-2025 Research in Education & Law: Critical Issues and Future Directions	Legal Challenges Faced by MSMEs in Khandwa an Analysis of Compliance and Regulatory Frameworks	Dr. C.V Raman University Khandwa	School of Management	Suyash Soni	ISBN: 978-93-49524-37-8	Volume: 4	101-111	Aug-25

S. N O	BOOK CHAPTER	TITLE OF THE BOOK/CHAPTERS PUBLISHED	NAME OF UNIVERSITY	DEPARTMENT	AUTHORS	ISBN NO	PUBLISHER	PAGE NO.	YEAR OF PUBLICATION
	for Viksit Bharat								
91	Ai Integration In Education (Transforming The Learning Scenario)	AI Integration in Education: Transforming the Learning	Dr. C.V Raman University Khandwa	Department of pharmacy	Prof. Megha Soni	ISBN: 978-93-5762-288-2	Alpha International Publication (AIP),	1-8	jully-2025

3.2.6 BOOKS PUBLISHED

S. No.	Title of Book	Name of University	Department	Authors	ISBN No	Publisher	Year of Publication
1	Mathematics for a Skilled India: Curriculum and Learning Outcomes in the NEP Era	Dr. C.V. Raman University Khandwa	School of Pharmacy	Mr. Abhishek Verma, Prof. Megha Soni	ISBN: 978-81-999146-1-2	Shree Gurukrupa Creation	Jun-26
2	ORGANIC FARMING FOR SUSTAINABLE FARMING	Dr. C.V. Raman University Khandwa	Agriculture	Sharda Dubey Vishal Mandle Lovekesh Sawle Shreya Malviya Deeksha Pawar Govind Dewda	ISBN: 978-93-7424-607-8	Crown Publishing	2025-26
3	"फसल उत्पादन तकनीक – I (खरीफ फसलें)"	Dr. C.V. Raman University Khandwa	Agriculture	Dr. Ganesh Malgaya	ISBN: 978-93-48188-24-3	Ninetales Publishings	Sep-25

3.2.7 FOSTERING A CULTURE OF RESEARCH AND INNOVATION AT CVRUK

Research projects form the foundation of innovation, scientific discovery, and evidence-based solutions to contemporary challenges. At **Dr. C.V. Raman University, Khandwa**, both **externally funded** and **internally supported** research projects play a pivotal role in strengthening the University's research ecosystem. Through financial support from government

agencies, funding organizations, industry partners, and the University's internal research grant mechanisms, faculty members and researchers are encouraged to undertake high-quality, multidisciplinary, and socially relevant research. These projects address regional priorities, national missions, and global challenges while promoting innovation, technology development, community engagement, and knowledge creation. By facilitating research funding, mentorship, and institutional support, the University nurtures a vibrant research culture that translates innovative ideas into impactful outcomes, contributing to academic excellence, sustainable development, and the vision of "**Research into Use.**"

3.2.7.1 EXTERNAL RESEARCH PROJECTS

S.NO	FUNDING AGENCY	TOPIC	CONVENER -CO CONVENER	RELIES AMOUNT In (Lakhs)	GRANT AMOUNT	STATUS
1	ICSSR	Evaluating the socio-economic of solar energy in the selected blocks of Khandwa district in Madhya Pradesh	Dr. Nikita Dr. Seema Mr. Shivam	8.0	10.0	Completed
2	Green Foundation	Soil Sample Testing	Dr. Ganesh Malgaya	3.92	3.92	Completed
3	M.P Khadi Gram Udhyog	Training Program “ Computer Accounting with Tally”	Mr. Umesh Sharma	Waited	1.5	Completed
4	M.P Khadi Gram Udhyog	प्रचार-प्रसार के अंतर्गत लोकशिक्षण कार्यक्रम (PEP) आयोजित करने की स्वीकृति	Dr. Seema Sharma	0.80	0.80	Completed
5	मध्यप्रदेश शासन वन विभाग मंत्रालय, वल्लभ भवन, भोपाल	औषधीय पौधों के हर्बल बगीचे की स्थापना	Ms. Komal Padme	1.67	1.67	Completed
6	ICSSR-NRC	“AI and Food Security: Shaping the Future of Viksit Bharat”	Dr. Seema Sharma	1.08	1.45	Completed
7	ICSSR	“Artificial Intelligence, Digital Economy and Sustainable Business: Emerging Trends in Commerce and Management	Dr. Yogesh Mahajan	1.08	1.45	Completed
8	Ministry Of Earth Science (Government Of India)	Celebration of Earth Day– 2026 on the Theme “Our Power, Our Planet” with Special Focus on Inclusion of Girl students in order to conserve our EARTH resources	Dr. Aachal Rathi	Awaited	0.60	Completed
9	M.P Khadi Gram Udhyog	गांधी दर्शन और कौशल : भारतीय परिप्रेक्ष्य	Dr. Nushrat Shaikh	0.50	0.50	Completed
10	M.P. Day State Rural Livelihood Mission, Panchayat & Rural Development Department Govt. of M.P.	Agri Value Addition Training for SHG Women (Onion, Tomato & Taro Processing)	Mr. Deepak Kousal	0.56	0.84	On Going
11	Centre council for research in homoeopathy	To evaluate the efficacy of different homoeopathic	Dr. Ganesh Malgaya	Awaited	25.0	On Going

	(CCRH)	drugs as fungus repllents and their dosage against Downy mildew in pearl millet under laboratory and field condition				
12	THE PRINCIPAL SCIENTIFIC ADVISER TO THE GOVERNMENT OF INDIA	Establish a new S&T Cluster	Dr. Seema Sharma	Awaited	10 Cr	Upcoming
Total Amount				17.61	47.73	

3.2.7.2 INTERNAL RESEARCH PROJECTS (CRIG)

S.NO	FUNDING AGENCY	TOPIC	CONVENER - CO CONVENER	RELIES AMOUNT In (Lakhs)	GRANT AMOUNT	STATUS
1	CORE RESEARCH & INNOVATION GROUP (CRIG)	Scaling up seed production of vegetables for improved sustainable agriculture at Sirsoud, Khandwa District of Madhya Pradesh	Mr. Govind Dewda	1.50	3.34	On Going
2	CORE RESEARCH & INNOVATION GROUP (CRIG)	Fair Average Quality (FAQ) as a Strategy for Advancing Vegetable and Seed Production in Khandwa, Madhya Pradesh	Mr. Govind Dewda	1.50	4.94	On Going
3	CORE RESEARCH & INNOVATION GROUP (CRIG)	हाईस्कूल स्तर की जनजातीय आदिवासी छात्राओं की व्यावसायिक रुचि पर पारिवारिक वातावरण के प्रभाव का अध्ययन खंडवा जिले के परिप्रेक्ष में।	Dr. Swati Pathak	2.0	5.0	On Going
4	CORE RESEARCH & INNOVATION GROUP (CRIG)	Smart Sensor System for Tomato Ripening	Ms. Vaidhehi Soni	0.70	1.70 lakh	On Going
Total Amount				5.7	14.96	

3.3 MAJOR RESEARCH FACILITY AT CVRUK

S.NO	TYPES	NAME OF EQUIPMENT
1	Analytical & Measurement Equipment	Spectrophotometer, UV-Visible Spectroscopy, Colorimeter / Photoelectric Colorimeter, Flame Photometer, Fluorimeter, Potentiometer, Conductivity Meter / Digital Conductivity Meter, Digital pH Meter, Polarimeter, Nepheloturbidity Meter, Refractometer / Hand Refractometer, Moisture Balance, Analytical Balance, Electronic Balance, Digital Balance, Digital Weighing Balance, Bulk Density Apparatus, Digital Soil Moisture Meter, Digital Moisture Meter
2	Microscopy & Imaging Equipment	Compound Microscope, Binocular Microscope, Dissecting Microscope, Projection Microscope, Polarised Microscope, USB Microscope Camera, Microscope Camera Camera Lucida, Stage Micrometer, Eye Piece Micrometer
3	Biotechnology & Microbiology Equipment	Autoclave, Aseptic Cabinet, Bacteriological Incubator, BOD Incubator, Colony Counter Antibiotic Zone Reader, Sterility Tester / Sterility Testing Unit, Electrophoresis Unit, Micro Pipette, Counting Chamber, Fumigation Chamber
4	Sample Processing & Laboratory Equipment	Centrifuge, Ultrasonicator, Homogenizer, Rotary Flask Shaker, Rotary Shaker, Mechanical Stirrer, Water Bath, Electric Water Bath. Vacuum Pump,

		Distillation Unit, Water Distillation Unit, Steam Distillation Unit, Soxhlet Apparatus, Desiccator
5	Heating & Drying Equipment	Hot Air Oven, Oven, Tray Dryer, Muffle Furnace, Heating Mantle, Hot Plate, COD Digestion Apparatus
6	Pharmaceutical Research Equipment	Tablet Coating Machine, Tablet Punching Machine, Tablet Dissolution Test Apparatus Tablet Disintegration Apparatus, Capsule Filling Machine, Capsule Counter Hardness Tester, Friability Test Apparatus, Ointment Filling Machine, Ball Mill, Double Cone Blender
7	Agriculture & Environmental Research Equipment	Seed Germinator, Plant Growth Chamber, Soil Profile Sampler, Soil and Water Analysis Kit, Moisture Analysis Kit, Soil Testing Machine, Stevenson Screen, Sunshine Recorder, Digital Anemometer, Thermohygrograph, Hygrograph, Self-Recording Rain Gauge Planimeter
8	Histology & Life Science Research Equipment	Microtome (Rotary Microtome), Microtomy Rotary Unit, Biometric Analyzer

3.4 CENTER FOR EXCELLENCE

3.4.1 RAMAN INCUBATION CENTRE (RIC): RESEARCH, INNOVATION, SKILL DEVELOPMENT AND ENTREPRENEURSHIP ACTIVITIES (2025–2026)



The **Incubation Centre of Dr. C. V. Raman University** serves as a vibrant hub for innovation, research translation, entrepreneurship development, and skill enhancement. Established with the vision of transforming academic knowledge into practical applications, the Centre promotes sustainable agricultural technologies, value-added food processing, student innovation, and community empowerment. During the academic sessions **2025–2026**, the Centre successfully implemented several research-driven initiatives that strengthened experiential learning, technology transfer, and livelihood generation.

Seed Production and Research

The Centre carried out scientific seed production programmes for **Tomato, Okra, and Brinjal** following standard agricultural research protocols. The entire process included crop establishment, field management, maintenance of genetic purity, integrated pest and disease management, harvesting, seed extraction, cleaning, grading, quality testing, and scientific storage. These activities not only ensured the production of high-quality seeds but also served as practical demonstrations of modern seed technology and sustainable agricultural practices.



Food Processing and Value Addition

To promote post-harvest technology and agro-based entrepreneurship, the Incubation Centre developed several value-added food products including **Tomato Powder, Taro Powder, and Beetroot Powder**. Standardized processing methods involving raw material selection, washing, slicing, dehydration, pulverization, packaging, and quality assurance were adopted. These activities encouraged research on food preservation, nutritional enhancement, product development, and commercialization, thereby creating opportunities for innovation in the food processing sector.

Student Training and Skill Development

A significant achievement during the academic session was the successful **training of more than 60 students** through structured internship and hands-on skill development programmes conducted at the Incubation Centre. Students received intensive practical exposure in seed production, food processing technologies, quality assurance, packaging, product development, agribusiness management, and entrepreneurship. The training emphasized experiential learning, research-based problem solving, and innovation, enabling students to develop industry-relevant competencies and entrepreneurial skills in alignment with the objectives of the **National Education Policy (NEP) 2020**.



Self-Help Group (SHG) Capacity Building

The Incubation Centre also organized specialized training programmes for **two Self-Help Groups (SHGs)** comprising rural women. The participants were trained in seed production, food processing, value addition, packaging, branding, and small-scale enterprise development. These programmes enhanced



their technical capabilities and entrepreneurial confidence, empowering them to establish sustainable agriculture-based micro-enterprises and improve their socio-economic status.

Institutional Impact



Bharat and Viksit Bharat 2047.

Through its multidisciplinary activities, the Incubation Centre has emerged as a catalyst for **research commercialization, innovation, entrepreneurship, and rural development**. By integrating scientific research with practical training and community outreach, the Centre has created a sustainable ecosystem that benefits students, researchers, farmers, and women entrepreneurs alike. The accomplishments of **2025–2026** reflect the University's commitment to transforming research into societal impact while contributing to the vision of **Atmanirbhar**

3.4.2 CENTER FOR SCIENCE COMMUNICATION: BRIDGING SCIENCE, SOCIETY AND SUSTAINABLE DEVELOPMENT "नारीणां स्वरः विज्ञानस्य ध्वनिः"



The **Centre for Science Communication (CSC)** at Dr. C.V. Raman University, Khandwa was established with the vision of making science understandable, accessible, and socially relevant



by connecting academic knowledge with community needs. Built upon the philosophy of **"Hidden Science"**, the Centre recognizes that scientific principles are deeply embedded in everyday life, particularly in rural and tribal communities where traditional practices often reflect sound scientific understanding. The Centre works to interpret these practices through modern scientific perspectives while encouraging students and faculty members to communicate science in simple, practical, and locally meaningful ways. By integrating scientific literacy with sustainable development, environmental stewardship, women's empowerment, health awareness, and

indigenous knowledge systems, the Centre has emerged as an important platform for promoting evidence-based community engagement aligned with the National Education Policy (NEP 2020) and the Sustainable Development Goals (SDGs).

During the academic year **2025–26**, the Centre implemented a series of innovative science communication programmes that transformed scientific concepts into practical community experiences. Rather than limiting science to laboratories and classrooms, the Centre adopted a participatory approach in which students, faculty members, village communities, women, Anganwadi workers, environmental experts, and local institutions jointly explored scientific solutions to everyday challenges. The activities emphasized experiential learning, scientific dialogue, environmental responsibility, public health, nutrition, and sustainable livelihoods while simultaneously strengthening students' communication skills and community engagement competencies.



One of the flagship initiatives was the **Nutrition & Food Festival**, organized at **Village Dondwada** on **26 November 2025**. The programme focused on promoting nutritional security through scientific awareness regarding balanced diets, food hygiene, and the nutritional significance of traditional foods, particularly **Sattu**. Students and faculty members conducted household visits, interacted with rural families, collaborated with Anganwadi workers, and explained food chemistry, nutrition science, safe food storage, and maternal and child health using simple and practical demonstrations. The programme successfully validated traditional food practices through scientific evidence while empowering rural women to improve household nutrition using locally available resources. Simultaneously, students gained valuable experience in translating classroom knowledge into meaningful community interaction, thereby strengthening their science communication skills and social responsibility.

Environmental sustainability remained another major focus of the Centre through the programme **Jan Jagriti se Jal-Jagriti**, organized on **17 March 2026**. The programme emphasized that environmental conservation begins with individual behaviour and responsible lifestyle choices. Through expert interaction, sustainability discussions, and environmental pledges, participants were encouraged to reduce unnecessary consumption, adopt eco-friendly practices, and become ambassadors of environmental protection within their communities. The initiative effectively transformed environmental awareness into personal commitment and reinforced the importance of behavioural change in addressing climate challenges.

To commemorate **Earth Day 2026**, the Centre organized a week-long campaign under the global theme **"Our Power, Our Planet"**, integrating science communication with community action. Activities included sustainability awareness sessions, Earth Day pledge ceremonies, educational visits to the University's Solar Park, plastic-free cleanliness campaigns, village outreach programmes, distribution of reusable cloth bags, pond and public-place cleanliness drives, and academic competitions such as essay writing, environmental



photography, and quizzes. Active participation by students, faculty members, NSS and NCC volunteers, and village communities demonstrated how scientific awareness can be translated into collective environmental action. The campaign significantly strengthened public understanding of renewable energy, waste management, climate resilience, and responsible environmental practices while encouraging students to actively participate in sustainable community development.



The Centre further strengthened its commitment to ecological sustainability through the **World Environment Day Celebration – Tree Plantation & River Science** programme conducted on **5 June 2026**. The programme combined environmental restoration with academic innovation by organizing a plantation drive featuring traditional and medicinal plant species and an interdisciplinary brainstorming session on introducing **River Science** as a future academic discipline. University leadership, faculty members,

researchers, and subject experts deliberated on river ecology, watershed management, biodiversity conservation, climate resilience, and curriculum development. The initiative not only enhanced the University's green campus efforts but also generated a roadmap for interdisciplinary research and academic programmes focusing on river ecosystems and environmental sustainability.

Beyond these major outreach programmes, the Centre also promoted scientific curiosity and public engagement through initiatives such as **World Quantum Day**, where students explored fundamental scientific concepts through live demonstrations and interactive learning, and **Grameen Vigyan Samvaad: Science Meets Society**, which encouraged rural communities to actively participate in scientific dialogue by integrating indigenous knowledge with modern science. These initiatives strengthened critical thinking, inspired research-oriented learning among students, and reinforced the University's commitment to making science inclusive, participatory, and socially relevant.

Collectively, the activities undertaken by the Centre for Science Communication have significantly strengthened the University's science outreach ecosystem by integrating research, education, extension, and community participation. The Centre has successfully demonstrated that science communication extends far beyond dissemination of scientific facts; it serves as a catalyst for behavioural change, environmental stewardship, health awareness, women's empowerment, and sustainable development. Students developed practical competencies in communication, leadership, teamwork, and field-based scientific inquiry, while rural communities benefited from evidence-based awareness



programmes addressing nutrition, environmental conservation, public health, and sustainable living.

Through its sustained initiatives, the **Centre for Science Communication** continues to exemplify the University's philosophy of "**Research into Use**", transforming scientific knowledge into meaningful societal action. By fostering collaboration between academia and communities, integrating indigenous wisdom with scientific evidence, and promoting innovation for sustainable development, the Centre is making significant contributions toward achieving the **Sustainable Development Goals (SDGs)**, advancing the vision of **NEP 2020**, and supporting the national aspiration of **Viksit Bharat 2047**.

3.4.3 INTELLECTUAL PROPERTY RIGHTS (IPR): BUILDING AN INNOVATION-DRIVEN RESEARCH ECOSYSTEM

Recognizing that innovation attains its true value only when it is effectively protected, managed, and translated into societal and economic benefits, Dr. C.V. Raman University, Khandwa has



undertaken a series of focused initiatives to strengthen the Intellectual Property Rights (IPR) ecosystem within the University. During the academic year 2025–26, the Research & Innovation Division, in collaboration with the Institution's Innovation Council (IIC), Research Centre for Faculty Excellence (RCFE), Centre for Excellence in Intellectual Property Rights, and the Research Project Cell, organized a sequence of capacity-building programmes aimed at developing awareness and practical competencies in patent protection, copyright management, technology readiness, innovation commercialization, and global intellectual property practices. These initiatives

were designed to transform the University's research culture from publication-oriented research to innovation-oriented research capable of generating patents, technologies, startups, and industry collaborations.

The University's IPR initiatives commenced with an **Expert Talk on Technology Readiness Level (TRL), Manufacturing Readiness Level (MRL), Innovation Readiness Level (IRL), Intellectual Property Commercialization, and Technology Transfer** conducted on **8 April 2026**. The programme introduced faculty members and researchers to internationally accepted innovation maturity frameworks that assess the progression of research from laboratory concepts to commercially deployable technologies. Participants gained practical understanding of Technology

Readiness Levels, Manufacturing Readiness Levels, and Innovation Readiness Levels, while also learning strategies for patent filing, copyright protection, idea validation, prototype development, business model creation, market analysis, and innovation marketing. The programme emphasized that successful research must not conclude with scientific publications but should progress towards technology transfer,

To further strengthen intellectual property awareness, the University organized the two-day **IPR Course IV: Global Techno-Legal Considerations in IPR – Scientist Perspectives and Implications** on 10–11 March 2026.

publication, grant process, and commercialization opportunities. Participants were also introduced to copyright protection, research ethics, academic integrity, and strategies for safeguarding intellectual assets generated through scientific research. Through case studies and interactive discussions, the programme demonstrated how research outcomes can be converted into protected intellectual assets capable of supporting technology transfer, startup development, and industrial collaboration. The programme successfully motivated participants to identify patentable innovations and strengthened management within the University's research

Collectively, these initiatives have substantially strengthened the University's innovation ecosystem by integrating intellectual property education with research, technology development, entrepreneurship, and commercialization. Faculty members, researchers, and students have developed greater awareness regarding patent filing, copyright protection, technology readiness assessment, innovation management, and global intellectual property frameworks. The programmes have also encouraged interdisciplinary collaboration, enhanced institutional preparedness for technology transfer, and promoted a culture where research outputs are viewed



not only as academic contributions but also as valuable intellectual assets with the potential to create societal impact and economic value.

Through these sustained initiatives, Dr. C.V. Raman University continues to reinforce its vision of "**Research into Use**" by fostering an innovation-driven research environment where scientific discoveries are protected through Intellectual Property Rights, transformed into technologies, and translated into solutions that contribute to national development, entrepreneurship, and the vision of **Viksit Bharat 2047**.

4. FACULTY RESEARCH PROFILE & ACHIEVEMENTS

1. Research Topic: Calcium Oxalate-Depleted Taro Flour: A Natural Improver for PDS Flour.

Dr. Seema Sharma, Mr. Sandesh Daftari, Ms. Komal Padme, Ms. Megha Soni, Ms. Divyani Kanungo, Ms. Aayushi Laad, Mr. Akash Sudhakar Ingale.

The faculty research focused on developing a **nutritionally enriched Public Distribution System (PDS) wheat flour** by incorporating **calcium oxalate-depleted taro flour (COD-TF)** as a natural functional ingredient. The study standardized three formulations containing **0%, 10%, and 20% taro flour** and evaluated their physicochemical, nutritional, functional, and sensory characteristics through laboratory analysis and consumer feedback. The results demonstrated that the **10% COD-TF formulation** provided the best balance of improved protein, dietary fibre, mineral content, dough elasticity, water absorption, cooking quality, and consumer acceptability without compromising processing performance. By utilizing processed taro, an underutilized indigenous crop, the research promotes **food fortification, nutritional security, sustainable agriculture, and waste-to-wealth innovation**. The study highlights the potential of integrating locally available functional foods into government food distribution programmes to combat malnutrition, strengthen public health, support rural livelihoods, and contribute to sustainable food systems.



2. Research Topic: Assessment of Calcium–Silicate Hybrid Fertilizer Derived from Eggshell Waste and Sugarcane Bagasse Ash: A Waste-to-Wealth Approach for Sustainable Agriculture in the Nimar Region

Mr. Sandesh Kumar Daftari, Dr. Seema Sharma, Dr. Aanchal

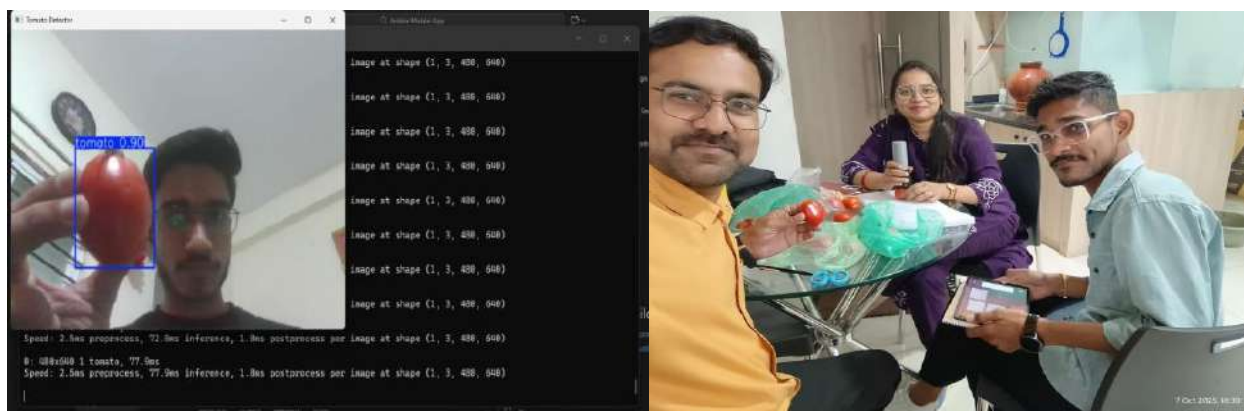
The faculty research focused on developing an **eco-friendly calcium–silicate hybrid fertilizer** by utilizing **eggshell waste and sugarcane bagasse ash** under the principles of the **Waste-to-Wealth** approach to promote sustainable agriculture in the Nimar region. The study evaluated the physicochemical properties of the synthesized fertilizer and assessed its effectiveness in improving soil fertility, nutrient availability, plant growth, and crop productivity while reducing dependence on conventional chemical fertilizers. Laboratory characterization and field evaluation demonstrated that the hybrid fertilizer serves as an effective source of calcium and silicon, enhancing soil health, strengthening plant resilience, and supporting sustainable crop production. The research highlights the potential of converting locally available agricultural and food-processing waste into value-added bio-inputs, contributing to circular economy practices, environmental conservation, cost-effective farming, and the long-term sustainability of agriculture in the Nimar region.



3. Research Topic: AI-Enabled System for Accurate Tomato Ripeness Detection in Precision Agriculture.

Ms. Vaidehi Soni, Ms. Shruti Sriwas, Mr. Gourav Soni

The faculty research developed an **AI-enabled intelligent system** for the accurate detection of tomato ripeness to support precision agriculture and smart harvesting. The proposed model integrates **image processing, computer vision, lightweight artificial intelligence algorithms, and a mobile-based monitoring application** to automatically classify tomato maturity under real field conditions based on colour, size, and texture. The developed prototype achieved an average detection accuracy of **96.3%**, significantly reducing human effort, subjectivity, harvesting errors, and post-harvest losses while improving harvesting efficiency and crop quality. Designed as a cost-effective and farmer-friendly solution, the system enables real-time monitoring and timely harvesting decisions, making it particularly suitable for small and medium-scale farmers. The research demonstrates the transformative potential of AI-driven precision agriculture in enhancing productivity, promoting digital farming, reducing food waste, and advancing sustainable agricultural practices in line with the goals of smart and sustainable agriculture.



4. Research Topic: Seasonal Dynamics of Water Pollution and Enhanced Purification Efficiency Using Emulsified Moringa Oil: A Comparative Study of Rainy and Winter Seasons.

Ms. Pooja Bhalerao, Dr. Seema Sharma, Mr. Sukhdev Kumrawat, Dr. Aanchal, Ms. Ayushi Laad, Ms. Megha Soni

The faculty research investigated the **seasonal variation in water quality** during the rainy and winter seasons and evaluated the effectiveness of **emulsified Moringa (*Moringa oleifera*) oil** as an eco-friendly natural coagulant for water purification. The study assessed key physicochemical parameters, including turbidity, pH, total dissolved solids, hardness, and microbial contamination before and after treatment. Comparative analysis demonstrated that the Moringa oil emulsion significantly improved water quality by reducing suspended particles and microbial load while maintaining favourable physicochemical characteristics, with purification efficiency varying across seasons. The findings highlight the potential of plant-based purification technology as a sustainable, low-cost, and environmentally friendly alternative for rural and resource-limited communities. The research promotes green technology, safe drinking water, environmental conservation, and public health while supporting the Sustainable Development Goals related to clean water, health, and sustainable communities.



Figure 1

Figure 2

Figure 3

Figure 4



Figure 5



Figure 6



Figure 7



Figure 8

5. Research Topic: Innovative Formulation and Development of a Nutrient-Dense Rice Flour Papad Fortified with Beetroot Leaf Powder.

Ms. Devyani Kanungo

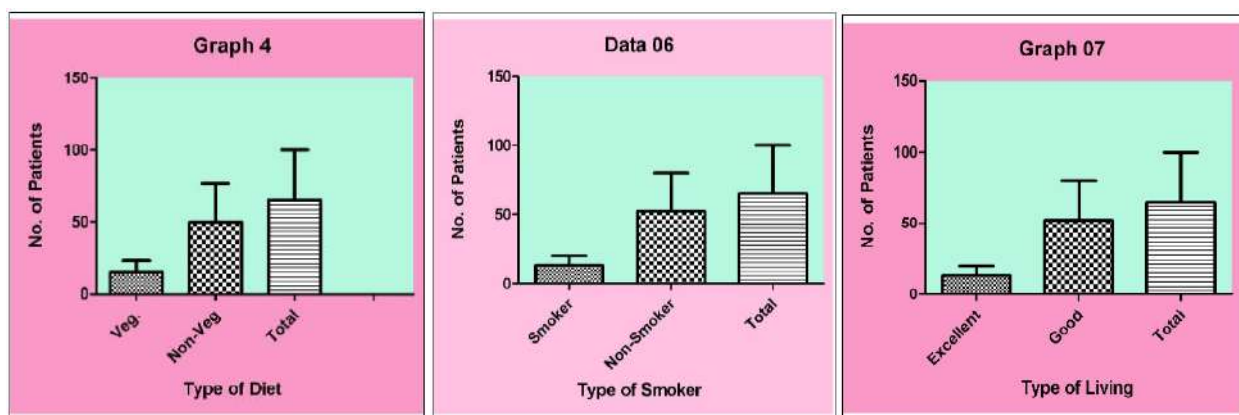
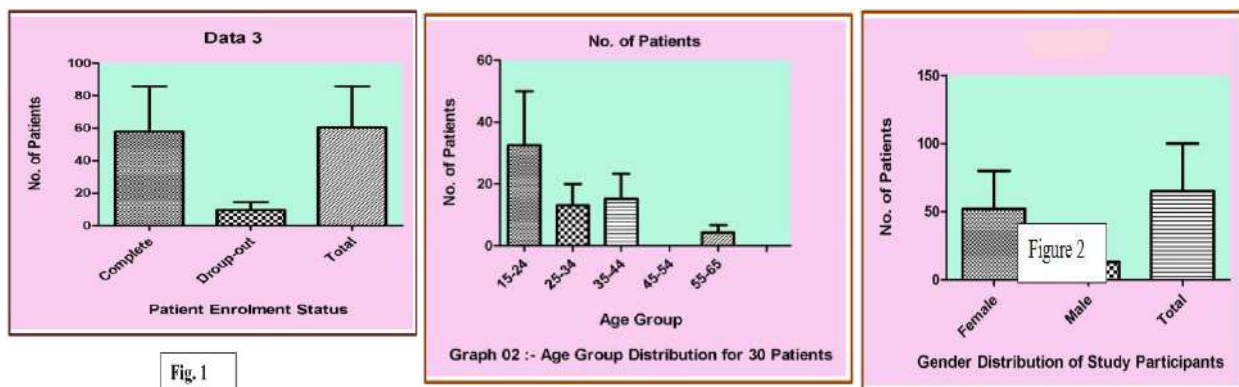
The faculty research focused on the development of a **nutrient-dense rice flour papad fortified with 5% beetroot leaf powder** by utilizing beetroot leaves, which are commonly discarded as agricultural waste but are rich in vitamins, minerals, dietary fibre, and antioxidants. The study standardized the formulation and evaluated its nutritional composition, physical characteristics, and sensory attributes using a five-point hedonic scale. The fortified papad demonstrated excellent colour, crispiness, flavour, taste, and overall acceptability while significantly enhancing the nutritional quality without compromising consumer preference. The research highlights the potential of transforming underutilized agricultural by-products into value-added functional foods, thereby promoting food waste reduction, nutritional security, sustainable food processing, and the development of affordable, health-oriented traditional food products aligned with sustainable agriculture and circular economy principles.



6. Research Topic: Atopic Dermatitis (AD): Etiological Factors and Evaluate Antifungal Drug Resistance Patterns

Mr. Syed Wasim

The faculty research explored the **etiological factors associated with Atopic Dermatitis (AD)** and investigated **antifungal drug resistance patterns** among fungal pathogens commonly associated with skin infections. The study examined the influence of genetic predisposition, environmental allergens, immune dysfunction, and microbial colonization on the development and progression of AD while evaluating the effectiveness of commonly used antifungal agents against resistant fungal isolates. The findings highlighted the growing challenge of antifungal resistance and emphasized the importance of accurate pathogen identification, susceptibility testing, and evidence-based treatment strategies to improve patient outcomes. The research contributes to a better understanding of dermatological infections, supports the rational use of antifungal medications, and provides valuable insights for enhancing clinical management, infection control, and public health through early diagnosis and targeted therapeutic interventions.



7. Research Topic: पगल्या पारंपरिक रंगोली का सतत (Sustainable) जैव-शुद्धि में उपयोग: एक नवाचारी एवं पर्यावरणीय अध्ययन

Dr. Nushrat Shaikh, Ms. Vedvati pal

The faculty research explored the **sustainable application of the traditional Paglya Rangoli** as an eco-friendly material for **bioremediation and environmental purification**. The study investigated the natural composition and bioactive properties of traditional rangoli materials and evaluated their potential for reducing environmental pollutants while preserving indigenous cultural practices. Through laboratory analysis and experimental validation, the research demonstrated that traditional natural ingredients used in Paglya Rangoli possess promising adsorption and purification capabilities, making them suitable for sustainable environmental applications. The study successfully integrates **Indian traditional knowledge with modern environmental science**, highlighting the potential of culturally rooted practices to support eco-friendly waste management, environmental conservation, and sustainable development. The findings encourage the revival of indigenous practices as innovative green technologies that contribute to environmental protection and promote the principles of the circular economy and the Sustainable Development Goals (SDGs).



8. Research Topic: A Novel 2-Mercaptopyridine Coating for Polymer Substrates: Antimicrobial Efficacy and Application Potential

Dr. Anupama Gour, Ms. Sameeksha Patidar

The faculty research focused on developing an **antimicrobial coating for cotton-based polymer substrates** using **2-Mercaptopyridine (2-MP)** to enhance the safety and hygiene of medical textiles. The study employed a simple dip-coating technique to functionalize cotton fabric with 2-MP and evaluated its antibacterial efficacy against **Escherichia coli** and **Staphylococcus aureus** using the Zone of Inhibition (ZOI) assay. The coated fabric exhibited significantly improved antimicrobial activity due to the synergistic action of the thiol group and pyridine ring, which disrupt microbial cell membranes and inhibit bacterial growth. The developed coating demonstrated strong adhesion, durability, and broad-spectrum antibacterial performance, indicating its suitability for applications such as surgical masks, gloves, hospital linens, protective clothing, and other healthcare textiles. The research highlights an innovative,

cost-effective, and environmentally friendly strategy for infection control, contributing to safer healthcare environments and advancing sustainable biomedical material development.



Fig. 22-MP Coated Cotton fabric



Fig. 3 : Nutrient Agar Solution



9. Research Topic: Treatment of Different Water Samples with the Oil of *Moringa Oleifera* for Purification Process

Dr. Aanchal, Dr. Seema Sharma, Ms. Megha Soni, Ms. Pooja Bhalerao, Mr. Sukhdev Kumrawat, Ms. Aayushi Laad.

The faculty research investigated the effectiveness of ***Moringa oleifera* seed oil** as a natural and eco-friendly agent for the purification of different water sources, including **Narmada River water, Sukta River water, RO water, packaged drinking water, and contaminated water**. The study evaluated key physical, chemical, and biological parameters such as **pH, turbidity, Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), heavy metals, and *Escherichia coli*** before and after treatment with Moringa oil. The findings demonstrated significant improvements in water quality, including reduced microbial contamination and enhanced physicochemical characteristics, confirming the effectiveness of Moringa oil as a sustainable, low-cost, and environmentally friendly alternative for water treatment. The research highlights the potential of plant-based purification technologies to provide safe drinking water in rural and resource-limited communities while promoting green innovation, environmental sustainability, and public health.



Fig. 1



Fig. 2



Fig. 3

10. Research Topic: मध्यप्रदेश के निमाड़ क्षेत्र के उपेक्षित मंदिरों का सांस्कृतिक मूल्यांकन एवं धार्मिक पर्यटन के विकास में उनकी भूमिका

डॉ. सीमा शर्मा , श्री देवास उइके

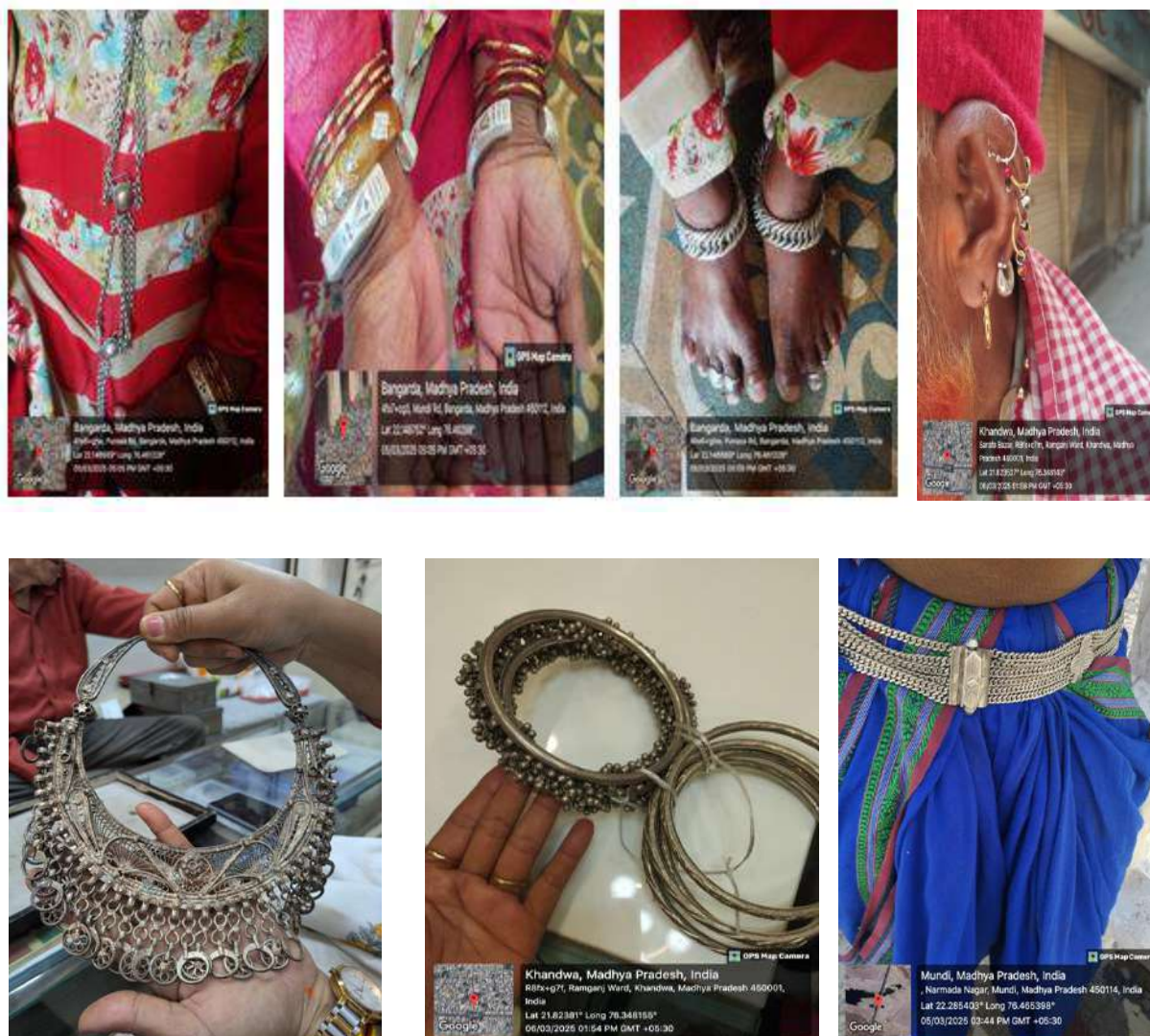
This faculty research explores the **cultural, historical, and religious significance of the neglected temples of the Nimar region of Madhya Pradesh** and evaluates their potential contribution to the development of **religious tourism**. The study documents the architectural heritage, historical background, cultural traditions, and present condition of these temples through field surveys and community interactions. It identifies key challenges such as inadequate conservation, poor infrastructure, limited public awareness, and insufficient tourism promotion that hinder their recognition. Based on the findings, the research proposes strategies for heritage conservation, infrastructure development, digital documentation, community participation, and sustainable tourism planning. The study highlights that preserving these neglected temples can strengthen cultural identity, generate local employment, promote rural tourism, and contribute to the socio-economic development of the Nimar region while safeguarding its rich cultural heritage for future generations.



11. Research Topic: निमाड़ के पुराने आभूषणों का ऐतिहासिक और वैज्ञानिक अध्ययन

वेदवती पाल

The faculty research presents a comprehensive **historical and scientific study of the traditional ornaments of the Nimar region**, highlighting their cultural significance, craftsmanship, material composition, and relevance in preserving indigenous heritage. The study documents various traditional ornaments worn by tribal and rural communities, examining their historical evolution, symbolic importance, and the scientific properties of metals and natural materials used in their fabrication. It further explores the health-related benefits traditionally associated with these ornaments, their role in social identity, and the challenges posed by modernization and declining traditional craftsmanship. The research emphasizes the need for systematic documentation, conservation, and promotion of Nimar's traditional jewellery as an important component of India's cultural heritage while encouraging its revival through cultural tourism, artisan empowerment, and sustainable preservation initiatives.



12. Research Topic: Novel Approach for Amino Acid Recovery from Human Hair Waste as a Natural Nutrient Supplement for Tomato Pot Plants

Mr. Satish Patel, Ms. Samiksha Patidar

The faculty research developed an innovative **waste-to-wealth technology** for recovering **amino acids from human hair waste** to produce a sustainable and eco-friendly nutrient supplement for tomato plants. The study employed an optimized alkaline hydrolysis process using potassium hydroxide followed by controlled neutralization to convert keratin-rich human hair into an amino acid-enriched liquid biostimulant. The recovered nutrients were formulated into three delivery systems—**foliar spray, biodegradable root-zone tissue matrix, and controlled-release nutrient capsules**—to enhance nutrient use efficiency and plant growth. Experimental evaluation demonstrated significant improvements in vegetative growth, chlorophyll content, root development, flowering, fruit yield, and stress tolerance in tomato plants. The research

highlights an innovative approach for converting urban biological waste into a value-added agricultural input, promoting **circular economy principles, sustainable waste management, organic farming, and environmentally friendly crop nutrition**, while offering strong commercial potential for the organic fertilizer and urban gardening sectors.



5. STUDENT RESEARCH & INNOVATION

1. Research Topic: Towards Sustainable Agro-Pharmaceuticals: Comparative Potential of Gajarghaas (*Parthenium hysterophorus*), Neem (*Azadirachta indica*), and Tulsi (*Ocimum sanctum*) as Eco-Friendly Herbal Insecticides and Their Residual Toxicity on Consumable Crops

Mr. Manish Patel, Mr. Aakash Patel, Ms. Gungun Patel, Ms. Devyani Kanungo (Mentor)

The student research focused on the development and evaluation of an **eco-friendly herbal insecticide** prepared from **Gajarghaas (*Parthenium hysterophorus*)**, **Neem (*Azadirachta indica*)**, and **Tulsi (*Ocimum sanctum*)** as a sustainable alternative to synthetic pesticides. The study formulated different concentrations of herbal extracts and conducted field trials on **1,200 crop plants** to assess their effectiveness against aphids and caterpillars while comparing their performance with a conventional chemical insecticide. Among the tested formulations, **APOT4** demonstrated the highest pest control efficiency, significantly reducing pest infestation, improving plant health, and leaving **no toxic residues** on consumable crops. The research highlights the potential of plant-based bioactive compounds to provide a **safe, cost-effective, biodegradable, and environmentally friendly pest management strategy**, supporting sustainable agriculture, reducing chemical pesticide dependence, enhancing food safety, and promoting green agro-pharmaceutical innovations



2. Research Topic: - Development of Ayurvedic Algae Functional Foods Enhanced with Indigenous Medicinal Extracts and QR-Based Smart Packaging for Nutritional and Rural Empowerment

Ms. Saniya Sheikh, Ms. Mahak Soni, Ms. Savita Thakur, Ms. Payal Ekley, Ms. Pooja Bhalerao (Mentor)

The student conducted an innovative multidisciplinary study on the development of **Ayurvedic algae-based functional foods** by integrating nutrient-rich microalgae (*Spirulina* and *Chlorella*) with indigenous medicinal plant extracts such as Ashwagandha, Moringa, Tulsi, and Giloy. The research evaluated the nutritional composition, antioxidant properties, bioavailability, shelf-life stability, and consumer acceptance of the developed products while introducing **QR-enabled biodegradable smart packaging** to enhance consumer awareness and product traceability. A structured survey involving 130 respondents revealed high consumer acceptance, positive perceptions regarding immunity enhancement, increased energy, stress reduction, and strong repurchase intention. The study demonstrates that combining traditional Ayurvedic knowledge with modern food technology and sustainable packaging can promote healthier dietary choices,

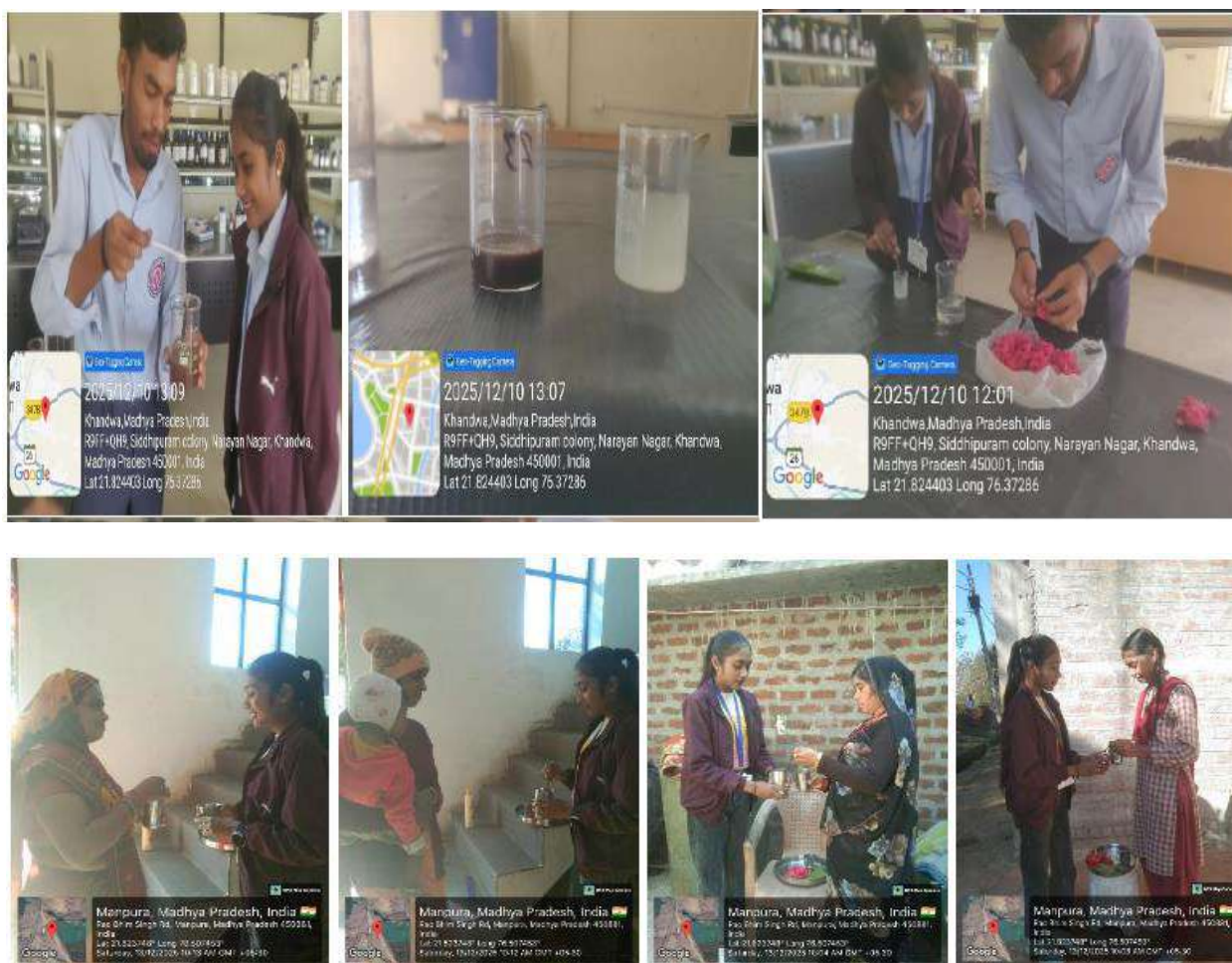
support rural women-led entrepreneurship, encourage eco-friendly innovation, and contribute to nutritional security and sustainable rural development.



3. Research Topic: Effectiveness of a Natural Aloe Vera–Hibiscus Formulation for Leucorrhea: Insights from a Rural Health Survey and Data Analysis

Ms. Ravina Rawat, Mr. Sumit Patidar, Ms. Pooja Bhalerao (Mentor)

The student research focused on developing and evaluating a **natural Ayurvedic formulation** prepared from **Aloe vera gel** and **Hibiscus rosa-sinensis flower juice** as a safe, affordable, and culturally acceptable remedy for managing leucorrhea (white vaginal discharge) among rural women. Using a community-based health survey, the study assessed the formulation's effectiveness in reducing symptoms such as excessive vaginal discharge, itching, weakness, and lower abdominal discomfort over a 7–21 day period. The findings revealed noticeable improvement in the majority of participants, along with high levels of user satisfaction, acceptability, and willingness to continue using the herbal remedy. The research highlights the potential of integrating traditional Ayurvedic knowledge with community-based healthcare approaches to improve women's reproductive health, promote preventive healthcare awareness, and provide an accessible low-cost solution for rural communities, while recommending further clinical validation to establish its therapeutic efficacy and safety.



5. Research Topic: Eco-Friendly Pencil Manufacturing from Banana Stem Waste: A Low-Cost & Sustainable Innovation

Mr. Neeraj Upasiya, Ms. Megha Soni (Mentor)

The student research focused on developing **eco-friendly and biodegradable pencils** by utilizing **banana stem waste**, an abundant agricultural by-product, as a sustainable alternative to conventional wooden pencils. The study employed fibre extraction, pulp preparation, natural plant-based adhesives, and moulding techniques to manufacture durable pencils with a graphite core, followed by evaluation of their mechanical strength, writing quality, water resistance, and biodegradability. The developed product demonstrated excellent functionality while reducing dependence on wood, thereby contributing to the conservation of forest resources and effective agricultural waste management. The research further highlights the potential of this innovation to promote **rural entrepreneurship, MSME development, and women's livelihood generation**, transforming agricultural waste into a value-added educational product. This waste-to-wealth approach supports circular economy principles, sustainable manufacturing, environmental conservation, and the achievement of the Sustainable Development Goals (SDGs).



6. Research Topic: Sustainable Nano-Herbal Spray Developed from Turmeric and Ginger Peel Waste

Ms. Ekta Verma, Mr. Gaurav Bawniya, Ms. Megha Soni (Mentor)

The student research focused on the development of a **sustainable nano-herbal spray** using **turmeric and ginger peel waste**, converting agro-industrial by-products into a value-added plant protection formulation through a **waste-to-wealth** approach. The study employed green synthesis techniques to prepare nano-sized herbal formulations and evaluated their physicochemical properties, stability, antimicrobial activity, and potential applications in sustainable agriculture. The developed nano-herbal spray demonstrated enhanced bioavailability, effective antimicrobial performance, and improved shelf-life while minimizing the use of synthetic agrochemicals. The research highlights the potential of utilizing agricultural waste to produce eco-friendly, biodegradable, and cost-effective bio-inputs that support crop protection, environmental conservation, circular economy practices, and sustainable agricultural development aligned with the Sustainable Development Goals (SDGs).



6. DOCTORAL RESEARCH (PH.D.)

6.1 PH.D. PROGRAM OVERVIEW

The **Doctor of Philosophy (Ph.D.) Programme** at Dr. C.V. Raman University, Khandwa is designed to cultivate high-quality researchers capable of generating original knowledge and addressing contemporary societal, scientific, and technological challenges. The programme provides a rigorous research environment supported by experienced supervisors, multidisciplinary research facilities, advanced laboratories, research ethics, and structured coursework in accordance with the **University Grants Commission (UGC) Regulations**. Emphasizing the University's philosophy of "**Research into Use**," the Ph.D. programme encourages scholars to undertake innovative, interdisciplinary, and outcome-oriented research aligned with national priorities, the **National Education Policy (NEP 2020)**, the **Sustainable Development Goals (SDGs)**, and the vision of **Viksit Bharat 2047**. Research scholars receive opportunities for academic mentoring, research methodology training, publications, conference participation, intellectual property creation, industry collaboration, and community-based research, thereby developing competencies that contribute to academic excellence, innovation, and sustainable development.

6.2 DISCIPLINES OFFERED FOR DOCTORAL RESEARCH

Dr. C.V. Raman University, Khandwa offers doctoral research programmes across a wide range of disciplines to promote advanced research, innovation, and interdisciplinary knowledge creation. The University provides research opportunities in science, technology, agriculture, management, education, humanities, and social sciences, enabling scholars to undertake original and impactful research under the guidance of experienced faculty members. The doctoral programmes are designed to address emerging research challenges while contributing to academic excellence, societal development, and national priorities.

The University offers Ph.D. programmes in the following disciplines:

- Education
- Management
- Commerce
- Physics
- Hindi
- English
- Chemistry
- Zoology
- Library & Information Science
- Computer Science & Information Technology (CS & IT)
- Botany
- Agriculture
 - Agricultural Extension
 - Agronomy
 - Forestry Science
 - Plant Molecular Biology & Biotechnology

6.3 RECOGNIZED PH.D. SUPERVISORS

The strength of a doctoral programme lies in the expertise and academic leadership of its research supervisors. Dr. C.V. Raman University has a distinguished panel of **UGC-recognized Ph.D. Supervisors** from diverse disciplines who provide scholarly guidance, research mentorship, and academic support to doctoral scholars. Their expertise in multidisciplinary research, publications, funded projects, innovation, and community-oriented research ensures the successful completion of high-quality doctoral research aligned with national and global research standards.

S. No.	Name of Supervisor	Designation	Department	Area of Specialization
1	Dr. Prof. Pramod Naik	Professor	Education	Education
2	Dr. Prof. Sandhya Choudhary	Professor	Education	Education
3	Dr. Seema Sharma	Associate Professor	Education	Education
4	Dr. Yogesh Mahajan	Associate Professor	Management	Management
5	Dr. Shashikant Sharma	Associate Professor	Biotechnology	Plant Molecular

				Biology and Biotechnology
6	Dr. Mohammad Sagir	Associate Professor	Commerce	Commerce
7	Dr. Pooja Sharma	Associate Professor	English Literature	English Literature
8	Dr. Swati Pathak	Associate Professor	Education	Education
9	Dr. Sharda Dubey	Associate Professor	Agriculture Science	Agronomy Science
10	Dr. Varun Mahajan	Associate Professor	Political science	Political science
11	Dr. Anupma Gour	Associate Professor	Chemistry	Chemistry
12	Dr. Surbhi Dindore	Associate Professor	Commerce	Commerce
13	Dr. Alka Chandelkar	Assistant Professor	Education	Education
14	Dr. Archana Kumari	Assistant Professor	Education	Education
15	Dr. Ganesh Malgaya	Assistant Professor	Agriculture Science	Forestry Science
16	Dr. Nusrat Ara Sheikh	Assistant Professor	Hindi literature	Hindi literature
17	Dr. Golden Gokhale	Assistant Professor	Zoology	Zoology
18	Dr. Aanchal	Assistant Professor	Physics	physics
19	Dr. Divya Badole	Assistant Professor	Commerce	Commerce
20	Dr. Bhavna Rajput	Assistant Professor	Botany	Botany

7. Research & Innovation Future Action Plan (2026–27)

1. Statistics Laboratory “Prachiti”

Status: Established and fully operational with SPSS software.

Next Steps:

- Organize Faculty Development Programmes (FDPs), workshops, and hands-on training sessions for faculty members, researchers, and students.
- Develop “Prachiti” into an Advanced Data Analytics and Research Support Centre.
- Provide training in quantitative research methods, multivariate analysis, statistical modeling, and data interpretation.

2. Raman Incubation Centre (RIC)

Status: Successfully established and operational.

Achievements:

- Successfully trained 60 students from various academic departments in entrepreneurship and innovation during the previous year.
- SHG (Self-Help Group) Women Entrepreneurship Training Programme is currently ongoing.

Next Steps:

- Launch a new batch of 60 students for entrepreneurship and startup development training.
- Strengthen Food Processing Incubation, Product Development, Consultancy Services, Website Development, and Software Development initiatives.

- Establish the **Raman Think Tank** to promote innovation, policy research, and problem-solving initiatives.
- Expand hands-on training, startup mentoring, and industry-academia collaboration activities.

3. Turnitin Plagiarism Management System

Status: Subscription procured and operational.

Next Steps:

- Upgrade the Turnitin subscription to include AI-generated content detection capabilities.
- Conduct awareness programmes on research ethics, academic integrity, and responsible use of Artificial Intelligence in research.
- Strengthen quality assurance mechanisms for theses, dissertations, and research publications.

4. GIS Laboratory “Vasudha”

Status: QGIS installed and laboratory operational.

Next Steps:

- Complete procurement and installation of ArcGIS software.
- Install high-configuration computing systems to support advanced GIS and geospatial research.
- Organize GIS, Remote Sensing, and Spatial Data Analysis training programmes.
- Promote GIS-based research in agriculture, environmental management, disaster management, and resource mapping.

5. DSIR Recognition

Status: Application under process.

Next Steps:

- Complete all required documentation and compliance procedures for DSIR recognition.
- Strengthen research infrastructure and laboratory facilities in accordance with DSIR guidelines.
- Pursue national and international research funding opportunities upon obtaining recognition.

6. FSSAI Approval

Status: In the final stage of approval.

Next Steps:

- Obtain FSSAI certification and operationalize food innovation and food processing research activities.
- Support product development, food safety testing, and value-added food processing initiatives.
- Enhance industry collaboration in food technology and entrepreneurship.

7. Medicinal and Cultural Gardens

Status: Nakshatra Van, Rashi Vatika, and Triphala Van successfully established.

Next Steps:

- Develop a dedicated Herbal Garden (Herbal Vatika).
- Launch the Sindoor Plantation Project.
- Undertake large-scale Moringa plantation for nutritional and medicinal research purposes.
- Promote conservation and research on medicinal and indigenous plant species.

8. Mobile Soil Testing Van and Soil Testing Laboratory

Status: Planning completed.

Next Steps:

- Initiate field-based soil testing services in rural and tribal regions through the Mobile Soil Testing Van.
- Establish a modern Soil Testing Laboratory within the university campus.
- Provide scientific soil health advisory services and support sustainable agricultural practices.

9. Research-Oriented Curriculum Mapping

Status: Successfully implemented during the previous academic session with encouraging outcomes.

Next Steps:

- Continue and strengthen Research-Syllabus Mapping across all academic programmes.
- Integrate research themes, Sustainable Development Goals (SDGs), and local community challenges into teaching and learning processes.
- Promote research-based learning and problem-solving approaches among students.

10. Automatic Weather Station

Status: Installed and operational.

Next Steps:

- Develop Standard Operating Procedures (SOPs) for weather data collection, management, and dissemination.
- Establish a Weather Advisory System for farmers and stakeholders.
- Utilize weather data for climate, agriculture, and environmental research.

11. Geostationary Satellite Reception System

Status: Installation planned in the coming months.

Next Steps:

- Establish a Geostationary Satellite Data Reception and Analysis Facility.
- Support research in remote sensing, agriculture, climate studies, environmental monitoring, and disaster management.
- Organize capacity-building programmes for faculty members and students.

12. Certification and Skill Development Programmes

Status: Planned for future expansion.

Next Steps:

- Introduce certificate programmes in GIS, SPSS, Artificial Intelligence in Research, Data Analytics, Entrepreneurship, Food Processing, Intellectual Property Rights (IPR), and Remote Sensing.
- Develop industry-oriented and employability-focused skill enhancement programmes.
- Promote interdisciplinary learning and professional competency development.

14. Research Grant Facilitation and Proposal Development Cell

Future Plan:

- Establish a dedicated Research Grant Support Cell to assist faculty in securing external funding.
- Increase submission of proposals to agencies such as ICSSR, DST, DBT, ICMR and other national and international funding organizations.
- Conduct proposal writing workshops and mentoring programmes.

15. Intellectual Property Rights (IPR) and Patent Facilitation Centre

Future Plan:

- Strengthen patent filing, copyright registration, trademark protection, and technology transfer activities.
- Establish a dedicated Patent Support Desk for faculty and student innovators.
- Increase the number of patents, copyrights, and commercialization initiatives.

22. International Research and Academic Collaboration Programme

Future Plan:

- Establish collaborations with international universities and research institutions.
- Promote faculty exchange, joint research projects, collaborative publications, and international internships.
- Increase global visibility and ranking of the university.

13. Strengthening of Research Project Cell

Status: Research Project Cell is functional and supporting research proposal development.

Next Steps:

- Strengthen the Project Cell by increasing the number of faculty members and coordinators from different disciplines.
- Organize proposal writing and grant acquisition workshops for faculty and researchers.
- Develop a system for identifying funding opportunities and monitoring project progress.
- Enhance collaborations with funding agencies, industries, and government organizations to increase externally funded projects and consultancy activities.

14. Enhancing Research Publications

Status: The target of publishing at least one research paper per faculty member during the academic year was successfully achieved. In addition, faculty members collectively contributed one research paper and one book chapter per faculty on average.

Next Steps:

- Further strengthen the research publication culture across the university.
- Encourage faculty members to publish a higher number of research papers, book chapters, patents, and review articles in reputed national and international journals.
- Promote collaborative and interdisciplinary research to enhance the quality and impact of publications.

8. PROPOSED RESEARCH ACTIVITIES CALENDAR (2026-27)

S.NO	NAME OF ACTIVITY	DURATION	PROPOSED TIME	RESPONSIBILITY	COMMENT
1	Research Orientation & Research Policy Awareness Program	1 Day	July 2026	Research Cell	Session Launch Activity
2	Research Methodology FDP	5 Days	July 2026	Research Cell	All Faculty
3	Research-Syllabus Mapping Workshop	2 Days	August 2026	Multidisciplinary Research Group	NEP & Outcome Based Research
4	Advanced AI Tools for Research Workshop	2 Days	August 2026	Research Cell	AI in Research
5	Faculty Research Proposal Writing Camp	3 Days	September 2026	Research & Project Cell	Funding Proposal Development
6	Raman Internal Research Grant (CRIG) Call	1 Month	September 2026	Research Department	Seed Funding
7	Student Research Internship Program	3 Months	Sept-Nov 2026	Research Cell	UG-PG Research Exposure
8	Research Publication Boot Camp	3 Days	October 2026	Research Department	Scopus/WoS Publication
9	Research Ethics & Turnitin Awareness Program	1 Day	October 2026	Research Cell	AI & Plagiarism
10	Shodh Shikhar Bal Vigyan Parv	2 Days	November 2026	Research Cell	School Outreach
11	Internal Smart India Hackathon	2 Days	November 2026	Innovation Team	Student Innovation
12	International Conference "Shodh Shikhar 2027"	2 Days	January 2027	Research Division	Flagship Event
13	Best Researcher Award Ceremony	1 Day	February 2027	Research Division	Recognition
14	Research Impact Assessment Workshop	1 Day	March 2027	MELD Unit	Outcome Assessment



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