Research Policy

2024-2025

Govt. Kamla Raja Girls Post Graduate Autonomous College

(Affiliated to Jiwaji University, Gwalior)

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Introduction

Government Kamla Raja Girls Post Graduate (Autonomous) College, Gwalior, envisions empowering women through a transformative research ecosystem that blends Indian Knowledge Systems (IKS) with pioneering education. Aligned with the National Education Policy (NEP) 2020, this Research Policy positions the college as a trailblazer in fostering transdisciplinary research, enabling approximately 150 faculty members and thousands of students to address global and local challenges. By nurturing women scholars and leaders, the college aims to shape a thriving, equitable world, ensuring research becomes a catalyst for personal growth, societal impact, and national development.

Vision

To cultivate a dynamic research environment that empowers women to innovate and lead through transdisciplinary approaches, integrating IKS with modern disciplines to address contemporary challenges and foster sustainable progress.

Mission

- To promote a culture of inquiry, collaboration, and innovation, encouraging transdisciplinary research that bridges traditional and modern knowledge.

- To empower female students and faculty through equitable research opportunities, fostering leadership and societal contributions.

- To align with NEP 2020's focus on holistic education, inclusivity, and gender equality, driving impactful research rooted in Indian ethos.

Objectives

- Foster Transdisciplinary Research: Facilitate collaborative research across Arts, Science, Commerce, Home Science, and Law, integrating IKS to solve complex problems.

- Leverage Indian Knowledge Systems: Apply traditional wisdom from Ayurveda, Yoga, and cultural heritage to modern research contexts.

- Empower Women Scholars: Provide resources, mentorship, and platforms for female students and faculty to excel in research.

- Promote Innovation and IPR: Encourage research that leads to intellectual property creation, patents, and women-led entrepreneurial ventures.

- Strengthen Research Infrastructure: Enhance facilities, funding, and digital access to support cutting-edge research.

- Build Global and Local Linkages: Forge partnerships with communities, industries, and international institutions to amplify research impact.

Policy Framework

- Transdisciplinary Research Ecosystem

- Research Clusters: Establish clusters like Women's Well-being, Sustainable Development, and Digital Heritage, integrating disciplines and IKS.

- Collaborative Initiatives: Promote projects combining diverse fields, e.g., Home Science with Environmental Studies for sustainable nutrition or Fine Arts with Technology for cultural preservation.

- Events and Training: Host transdisciplinary seminars and workshops with experts to spark innovative ideas.

- Curriculum Integration: Introduce credit-based research projects for UG and PG students, per NEP 2020, encouraging early engagement in transdisciplinary inquiry.

- Integration of Indian Knowledge Systems

- IKS Research Cell: Create a cell to explore traditional knowledge in Ayurveda, Yoga, Indian philosophy, and folk practices, applying them to modern challenges (e.g., mental health, sustainable agriculture).

- Preservation Projects: Support documentation and digitization of regional oral traditions, tribal knowledge, and art forms for research and cultural preservation.

- IKS in Research: Incorporate traditional methodologies in academic projects, e.g., studying Yoga's cognitive benefits or Vedic mathematics in computing.

- Community Collaboration: Partner with local artisans and healers to co-create research, validating indigenous practices.

- Empowering Women Through Research

- Women-Focused Themes: Prioritize research on gender equity, health, economic empowerment, and leadership, aligning with SDGs 4 (Quality Education) and 5 (Gender Equality).

- Mentorship Framework: Pair female students with faculty mentors to guide research, emphasizing skill-building and confidence.

- Research Fellowships: Launch Kamla Raja Research Fellowships for female students, prioritizing marginalized groups.

- Leadership Development: Combine research with workshops to prepare women for roles in academia, industry, and policy.

- Intellectual Property Rights (IPR) and Patents

- IPR Cell: Establish an IPR Cell to educate and assist faculty and students in securing patents, copyrights, and trademarks for their innovations.

- Patent Support: Provide funding and legal support for filing patents, particularly for women-led innovations in areas like herbal products, sustainable textiles, or educational tools.

- Awareness Programs: Conduct workshops on IPR, patent drafting, and commercialization to encourage students and faculty to protect their intellectual contributions.

- Innovation to Impact: Facilitate the transition of patented research into startups or industry collaborations, ensuring societal and economic benefits.

- Research Infrastructure and Support

- Research Hub: Develop a hub with advanced labs, digital libraries, and analytics tools to support transdisciplinary projects.

- Funding Mechanisms: Allocate an annual research budget, supplemented by external grants from UGC, DST, ICSSR, and IKS-focused schemes.

- Publication Platforms: Support open-access publications, launch a college journal (Kamla Raja Research Review), and fund conference presentations.

- Ethical Standards: Form a Research Ethics Committee to ensure integrity and compliance in all research activities.

- Innovation and Societal Impact

- Women's Incubation Cell: Create a cell to nurture research-based startups in fields like eco-friendly products, health solutions, or digital education.

- Industry Tie-Ups: Partner with industries to fund applied research, enhancing employability and market relevance.

- Policy Contributions: Encourage research informing policies on women's empowerment, education, or sustainability.

- Community Outreach: Share research outcomes through workshops and publications to benefit local women and marginalized groups.

- Capacity Building

- Faculty Training: Offer programs on transdisciplinary methods, IKS integration, and IPR, .

- Student Workshops: Provide training in research tools (e.g., SPSS, GIS), academic writing, and patent processes.

- Peer Networks: Foster platforms for sharing research experiences among students and faculty.

- Monitoring and Evaluation

- Research Advisory Committee (RAC): Oversee policy implementation, evaluate outcomes, and recommend improvements.

- Annual Reporting: Publish a report highlighting research achievements, patents filed, and societal impact.

- Feedback System: Gather inputs from stakeholders to refine the policy.

- KPIs: Track metrics like transdisciplinary projects, patents, publications, and community initiatives.

Implementation Plan

- **Phase 1 (2025-26)**: Set up IKS Research Cell, IPR Cell, and Research Hub. Launch pilot projects and training programs.

- **Phase 2 (2026-28)**: Expand clusters, secure grants, and integrate research into curricula. Publish the college journal and file initial patents.

- **Phase 3 (2028-30)**: Assess impact, scale initiatives, and establish the college as a leader in transdisciplinary research and women's innovation.

Funding and Resources

- Dedicate 5% of the college budget to research, leveraging ₹20 lakh autonomous grants and external funding from UGC, DST, and others.

- Engage alumni and philanthropists for research endowments.

Expected Outcomes

- 500+ students engaged in transdisciplinary research annually.

- 50+ publications integrating IKS and modern disciplines yearly.

- 5+ patents filed and 10+ women-led startups by 2030.

- Recognition as a regional hub for women's research and innovation.

Conclusion

In conclusion, the Research Policy of Government Kamla Raja Girls Post Graduate College, Gwalior, lays a transformative foundation for empowering women scholars to lead and innovate through a seamless integration of Indian Knowledge Systems and transdisciplinary research. By fostering a vibrant ecosystem of inquiry, collaboration, and ethical practice, the

policy not only aligns with the National Education Policy 2020 but also positions the college as a beacon of gender equity and societal progress. With robust infrastructure, strategic partnerships, and a commitment to translating research into tangible impact, the college is poised to nurture generations of women researchers whose contributions will resonate locally, nationally, and globally, driving sustainable development and cultural preservation.

Appendix:

- **List** of Supporting Agencies Providing Financial Support, Schemes, and Guidance

- List provides the names of agencies that support the college's research policy, particularly its focus on women's empowerment, IKS, transdisciplinary research, and innovation. Each offers funding, structured schemes, and guidance relevant to the policy's objectives, such as fostering women-led research, integrating traditional knowledge, and promoting intellectual property creation.

- University Grants Commission (UGC) –

- Support Offered: Grants for research projects, infrastructure development, and women's studies.

- Schemes: Major Research Projects, Minor Research Projects, Women's Studies Centres, and STRIDE (Scheme

for Trans-disciplinary Research for India's Developing Economy).

- Guidance: Resources on research ethics, proposal writing, and curriculum integration aligned with NEP 2020.

- Website: ugc.gov.in

- Relevance: Supports transdisciplinary research and women's empowerment, ideal for funding research clusters and curriculum-based projects.

- Department of Science and Technology (DST) -

- Support Offered: Funding for science, technology, and interdisciplinary research, with a focus on women scientists.

- Schemes: Women Scientists Scheme (WOS-A, WOS-B), Innovation in Science Pursuit for Inspired Research (INSPIRE), and Science and Technology for Women.

- Guidance: Offers mentorship for women researchers and guidelines on patent filing and technology transfer.

- Website: dst.gov.in

- Relevance: Aligns with the policy's goals of empowering women and promoting innovation in areas like sustainable development and health.

- Indian Council of Social Science Research (ICSSR) -

- Support Offered: Grants for social science research, including gender studies and cultural heritage.

- Schemes: Research Projects (Major/Minor), IMPRESS (Impactful Policy Research in Social Sciences), and Capacity Building Programs.

- Guidance: Provides training on research methodologies and policy-oriented research dissemination.

- Website: icssr.org

- Relevance: Ideal for funding women-focused themes and IKS projects in Arts, Commerce, and Law.

- Ministry of Education - Anusandhan National Research Foundation (ANRF) –

- Support Offered: Funding for cutting-edge research across disciplines, emphasizing national priorities.

- Schemes: Hub-and-Spoke model for collaborative research, Mission-mode Projects integrating traditional and modern knowledge.

- Guidance: Support for transdisciplinary research frameworks and intellectual property development.

- Website: anrf.gov.in

- Relevance: Supports IKS integration and transdisciplinary clusters like Women's Well-being and Digital Heritage.

- Department of Biotechnology (DBT) -

- Support Offered: Grants for biotechnology and life sciences research, including traditional knowledge applications.

- Schemes: Biotechnology Ignition Grant (BIG) for startups, BioNEST Incubators, and Women Biotech Entrepreneurship Programs.

- Guidance: Resources on biosafety, ethical standards, and commercialization of research outcomes.

- Website: dbtindia.gov.in

- Relevance: Suitable for IKS research in Ayurveda and health, as well as women-led startups in the Women's Incubation Cell.

- Indian Knowledge Systems Division, Ministry of Education -

- Support Offered: Funding for research on traditional knowledge, including Ayurveda, Yoga, and cultural heritage.

- Schemes: IKS Research Grants, Internship Programs, and Documentation Projects for indigenous practices.

- Guidance: Offers toolkits for integrating IKS into academic research and community collaboration frameworks.

- Website: iksindia.org

- Relevance: Directly supports the IKS Research Cell and preservation projects like digitizing regional traditions.

- Council of Scientific and Industrial Research (CSIR) -

- Support Offered: Funding for applied research and innovation, particularly in science and technology.

- Schemes: CSIR Innovation Awards, Extramural Research Grants, and Technology Development Programs.

- Guidance: Support for patent filing, industry linkages, and research translation into societal benefits.

- Website: csir.res.in

- Relevance: Aligns with the IPR Cell and industry tie-ups for women-led innovations in sustainable textiles or herbal products.

- Atal Innovation Mission (AIM), NITI Aayog - India

- Support Offered: Support for innovation ecosystems, incubators, and startups.

- Schemes: Atal Incubation Centres (AICs), Atal Tinkering Labs, and Women-Centric Innovation Challenges.

- Guidance: Mentorship for entrepreneurial ventures and scaling research-based startups.

- Website: aim.gov.in

- Relevance: Ideal for the Women's Incubation Cell and fostering women-led entrepreneurial ventures.

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