

Research & Development Cell

Annual Activity Report (Session: 2025–2026)

Introduction:-

The Research & Development Cell of Hindu Kanya Mahavidyalaya, Jind, in collaboration with the Institution's Innovation Council, has been consistently working to foster a strong research and innovation ecosystem in the institution. Aligned with the vision of the National Education Policy 2020, the Cell organized a series of workshops and expert talks during the session 2025–2026. These activities were designed to equip students and faculty with knowledge of research methodology, intellectual property rights, grant writing, publication ethics, and emerging technologies. The programs witnessed enthusiastic participation and successfully created a vibrant academic environment in the college.

Objectives of the Cell:-

The Cell primarily aims to develop scientific temperament and research aptitude among students and faculty members. The Cell also encourages students to explore deep-tech domains such as Artificial Intelligence and Machine Learning, and works to bridge the gap between academic research and industry requirements through expert interactions.

Activities Conducted During the Session:-

1. One day Workshop on R&D Awareness and Capacity Building:-

A workshop on "R&D Awareness and Capacity Building" was organized on 7th November, 2025. The resource persons for the workshop were Dr. Sandeep Sharma and Dr. Alpana Sharma, Assistant Professors, Department of Mathematics, G.C.W., Jind.

Dr. Sandeep Sharma emphasized that research is not merely a part of higher education but the foundation of national development. He explained the various national and international funding agencies, the process of identifying research problems, and the importance of interdisciplinary collaboration.

Dr. Alpana Sharma discussed capacity building strategies for teachers, highlighting the need for continuous learning, faculty development programs, and the role of minor research projects in building a strong research profile. She also guided participants on how to balance teaching and research responsibilities effectively and stressed the importance of publishing in quality journals to enhance academic credibility.

2. One Day Workshop on Sponsored/Seed Grant Proposals Writing:-

A One Day Workshop on “Sponsored/Seed Grant Proposals Writing” was conducted on 14th November, 2025 in collaboration with the Department of History.

Dr. Priti, Assistant Professor, Department of Political Science, C.R.S.U., Jind, provided a detailed guidance session on preparing research proposals. She explained how to select a relevant and contemporary research topic, frame clear objectives, and write a focused review of literature. She also stressed the importance of a sound research methodology and gave practical tips on framing hypotheses and selecting appropriate tools for data collection.

Dr. Manju, Assistant Professor, Department of History, C.R.S.U., Jind, delivered a talk on “Effective Writing of Sponsored & Seed Grant Proposals.” She elaborated on the technical aspects of proposal writing such as budget preparation, timeline planning, and expected outcomes. She also discussed how to write the significance and social relevance of the proposed research to make the proposal more impactful.

3. One Day Workshop on IP Awareness and Patent Filing:-

A One Day Workshop on “IP Awareness and Patent Filing” was organized on 26th February, 2026 under the aegis of the Institution’s Innovation Council in collaboration with the Department of Commerce.

Mrs. Kirti Bansal, Assistant Professor, Department of Commerce, H.K.M.V., Jind, delivered a session on “Basic Awareness about IPR.” She introduced the concept of Intellectual Property and explained the differences between copyright, trademark, geographical indication, and patent. She used day-to-day examples to make students understand how IPR protects creativity and innovation.

Mrs. Pooja Rani, Assistant Professor, Department of Physics, H.K.M.V., Jind, explained the “Process of Filing Patent” in detail. She demonstrated the official website of Indian Patent Office. She clarified the timeline of patent granting and the role of patent agents, helping participants understand that patent filing is a systematic and achievable process.

4. One Day Workshop on Deep-Tech Innovation Challenge:-

The Cell organized a One Day Workshop on “Deep-Tech Innovation Challenge” on 18th March, 2026 in collaboration with the Department of Computer Science.

Dr. Himanshu Garg, Assistant Professor, Department of Computer Science, Govt. College for Women, Jind, spoke on “AI-Powered Future: Transforming Everyday

Life.” She explained how Artificial Intelligence is transforming healthcare, education, agriculture, and governance. She motivated students to learn Python and start working on small AI-based projects.

Mr. Ajay, Full Stack Developer and AI/ML Specialist from Copublica and Metcan Pvt. Ltd., presented on “Use of AI in Real Projects.” He showcased industry projects where AI is used for customer analytics, predictive maintenance, and automation. He explained the complete lifecycle of an AI project from data collection to model deployment.

5. Expert Talk on Research Publication & Dissemination:-

An Expert Talk on “Research Publication & Dissemination” was organized on 22nd April, 2026 in collaboration with the Department of Mathematics.

Dr. Rekha, Assistant Professor, Department of Chemistry, G.C.W., Madlauda, spoke on “Scientific Research Writing, Ethics and Publication Standards.” She explained the IMRAD structure of research papers and emphasized the importance of academic integrity. She discussed plagiarism, types of plagiarism, and the use of software like Turnitin.

Dr. Vasudha Jolly, Assistant Professor, Department of Economics, Rajdhani College, New Delhi, delivered a talk on “Selection of Peer Reviewed Journal & How to Avoid Predatory Publications.” She explained the difference between UGC CARE, Scopus, and Web of Science journals. She also shared a checklist for selecting the right journal and explained the complete peer-review process, from submission to publication.

Conclusion:-

The session 2025–2026 proved to be highly productive for the Research & Development Cell. Through five well-planned workshops and expert talks, the Cell successfully sensitized students and faculty members about various dimensions of research, innovation, and intellectual property. The detailed deliberations by eminent resource persons not only enhanced theoretical understanding but also provided practical exposure to grant writing, patent filing, and publication processes. These initiatives have significantly contributed to strengthening the research culture in the institution and have motivated the academic community to engage in quality research and innovation.

Convenor

Dr. Sushma Garg
Research & Development Cell