



## **RESEARCH & DEVELOPMENT (R&D) POLICY**

## **RESEARCH & DEVELOPMENT CELL**

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## **1. PREAMBLE**

Research and Development (R&D) is a cornerstone of academic excellence, innovation, and societal advancement. In the contemporary knowledge-driven economy, higher education institutions play a crucial role in generating new knowledge, addressing emerging challenges, and contributing to sustainable development. Motherhood University, Roorkee, recognizes the importance of integrating research with teaching and extension activities to create a holistic academic environment.

The University is committed to fostering a robust and inclusive research ecosystem that encourages creativity, critical thinking, and interdisciplinary collaboration among faculty, researchers, and students. It aims to promote not only the creation of new knowledge but also its effective dissemination and practical application for the benefit of society and industry.

This policy establishes a structured framework to promote high-quality research, ensure adherence to ethical standards, incentivize scholarly output, strengthen industry-academia linkages, and enhance the overall research visibility and impact of the University at national and international levels.

## **2. VISION**

To emerge as a center of excellence in research and innovation through the promotion of high-quality, ethical, and socially relevant research. The University envisions fostering a vibrant research culture that encourages creativity, interdisciplinary collaboration, and the generation of impactful knowledge. It aims to contribute to national and global development by addressing contemporary challenges and producing research outcomes that are academically significant and socially beneficial.

## **3. MISSION**

- ***To create a conducive environment for research and innovation:*** The University shall provide necessary infrastructure, funding support, and academic freedom to encourage a vibrant research culture.
- ***To promote interdisciplinary and industry-oriented research:*** Efforts will be made to foster collaboration across disciplines and strengthen linkages with industry for practical and impactful research.

- ***To incentivize research productivity:*** Appropriate financial and non-financial incentives shall be provided to motivate faculty and researchers to enhance research output.
- ***To disseminate research outcomes effectively:*** The University shall ensure wide dissemination of research through publications, conferences, and digital platforms for greater visibility and impact.

## **CHARACTERISTICS OF THE R&D POLICY**

The R&D Policy of the University is characterized by the following key features:

- ***Inclusiveness:*** The policy promotes active participation of faculty members, research scholars, and students from all disciplines, ensuring equal opportunities for engagement in research activities across the University.
- ***Interdisciplinary Orientation:*** It encourages collaboration among different departments and academic domains to address complex research problems through integrated and multidisciplinary approaches.
- ***Innovation-driven:*** The policy emphasizes creativity and original thinking by supporting innovative ideas, start-ups, prototypes, and patent-oriented research leading to practical applications.
- ***Ethical Foundation:*** It ensures strict adherence to ethical standards, including integrity in data collection, analysis, publication practices, and compliance with institutional and national research guidelines.
- ***Outcome-Oriented:*** Focus is placed on achieving measurable research outputs such as quality publications, patents, funded projects, and contributions that have tangible societal and academic impact.
- ***Industry Linkages:*** The policy promotes collaboration with industries, government bodies, and organizations to facilitate applied research, consultancy, internships, and knowledge transfer.

## 5. OBJECTIVES

### 5.1 General Objectives

- ***To develop a robust research ecosystem within the University:*** The University aims to build a strong and supportive research environment by providing adequate infrastructure, institutional support, funding opportunities, and collaborative platforms for researchers.
- ***To enhance the quality and quantity of research publications:*** Emphasis shall be placed on increasing both the number and standard of research publications through encouragement of high-quality, peer-reviewed, and indexed journal contributions.
- ***To foster innovation and intellectual property generation:*** The University seeks to promote innovative thinking and support research activities that lead to the creation of intellectual property such as patents, copyrights, and technology-based solutions.

### 5.2 Specific Objectives

- **To promote funded research projects from national and international agencies:** Faculty and researchers shall be encouraged to secure research grants by applying to recognized funding bodies, with institutional support for proposal development and submission.
- **To encourage faculty to publish in high-impact journals:** Researchers will be motivated to publish in reputed, high-impact journals to improve the visibility, credibility, and ranking of the University.
- **To support research leading to patents, prototypes, and commercialization:** The University shall facilitate the development of innovative outputs and provide assistance for patent filing, prototype development, and commercialization of research findings.
- **To provide opportunities for student research and innovation:** Students at all levels shall be encouraged to participate in research projects, competitions, and innovation activities to develop research aptitude and practical skills.
- **To establish research centers and laboratories:** The University shall focus on setting up specialized research centers and advanced laboratories to support domain-specific and interdisciplinary research initiatives.

## 6. IMPORTANCE OF R&D POLICY

The R&D Policy plays a vital role in the overall growth and development of the University in the following ways:

- ***Enhancing the academic reputation of the University:*** A strong research framework contributes to high-quality publications, patents, and funded projects, thereby improving the institution's credibility, rankings, and recognition at national and international levels.
- ***Supporting evidence-based teaching and learning:*** The integration of research with teaching enables faculty to incorporate latest findings and practical insights into the classroom, enriching the learning experience of students.
- ***Facilitating problem-solving for societal and industrial challenges:*** The policy encourages research that addresses real-world issues, leading to practical solutions that benefit society, industry, and the local community.
- ***Strengthening industry-academia collaboration:*** By promoting partnerships with industries and organizations, the policy helps in bridging the gap between theoretical knowledge and practical application, fostering innovation and employability.
- ***Contributing to national initiatives such as innovation and entrepreneurship development:*** The policy aligns with national priorities by supporting research, start-ups, and innovation-driven activities that contribute to economic growth and self-reliance.

## 7. SCOPE OF THE POLICY

This policy applies to the following stakeholders and activities within the University:

- The policy covers all individuals engaged in research, including teaching faculty, doctoral and postgraduate scholars, and students involved in research projects, innovation activities, and academic publications.
- It is applicable to every academic department, specialized research center, and any affiliated or constituent units of the University to ensure uniform implementation of research practices and standards.

- The policy encompasses a wide range of research activities, from theoretical and fundamental studies to applied, interdisciplinary, and collaborative projects supported by industry or external agencies.
- It also includes consultancy assignments, innovation-driven initiatives, start-up incubation activities, and extension programs aimed at community engagement and knowledge transfer.

## **8. CONSTITUENTS OF R&D FRAMEWORK**

### **8.1 Research & Development Cell (RDC)**

- ***Central body responsible for planning, implementation, and monitoring research activities:*** The RDC functions as the nodal agency of the University to coordinate all research-related initiatives, formulate policies, and ensure effective execution and periodic review of research activities.
- ***Facilitates funding proposals and collaborations:*** It provides guidance and support to faculty and researchers in identifying funding opportunities, preparing project proposals, and establishing collaborations with academic institutions, industries, and funding agencies.
- ***Administers the research incentive system:*** The RDC shall be responsible for implementing and monitoring the institutional research incentive scheme, including evaluation of research outputs, verification of claims, and disbursement of incentives in a transparent and timely manner. It shall also periodically review and update incentive criteria in alignment with institutional goals.

### **8.2 Institutional Ethics Committee (IEC)**

The IEC is responsible for reviewing and approving research proposals involving human participants or animal subjects to ensure strict adherence to established ethical standards and guidelines. It safeguards the rights, dignity, privacy, and safety of participants, and ensures humane treatment of animals used in research. The committee also monitors ongoing research for compliance and addresses any ethical concerns or violations.

### **8.3 Intellectual Property Rights (IPR) Cell**

Promotes awareness and facilitates patent filing and protection:  
The IPR Cell actively promotes awareness among faculty and researchers regarding the

importance of intellectual property rights through workshops and training programs. It provides guidance and administrative support for filing patents, copyrights, and trademarks, and assists in documentation, legal procedures, and protection of intellectual assets. The cell also facilitates the management and commercialization of research outputs.

#### **8.4 Innovation & Incubation Cell**

Encourages start-ups, entrepreneurship, and commercialization of research: The Innovation & Incubation Cell fosters an entrepreneurial ecosystem within the University by supporting innovative ideas and start-up initiatives. It provides mentorship, incubation facilities, technical guidance, and networking opportunities to help researchers and students transform their ideas into viable products and services. The cell also facilitates linkages with industry, investors, and funding agencies for commercialization.

#### **8.5 Research Advisory Committee (RAC)**

The RAC comprises experienced academicians and experts who provide strategic guidance on research priorities, policies, and emerging areas of study. It periodically evaluates and reviews the progress and quality of research activities across departments, ensures alignment with institutional objectives and national priorities, and recommends measures for improving research performance and impact.

### **9. KEY ACTIVITIES UNDER R&D**

#### **9.1 Research Promotion**

- The University shall regularly organize academic events such as seminars, workshops, conferences, and Faculty Development Programmes (FDPs) to enhance research skills, promote knowledge exchange, and keep faculty and students updated with emerging trends.
- Financial support in the form of seed grants shall be provided to encourage faculty and researchers to initiate innovative and exploratory research projects, particularly in emerging and interdisciplinary areas.

#### **9.2 Publication Support**

- The University shall offer incentives to motivate researchers to publish in high-quality, indexed journals, thereby improving research visibility and academic reputation.

- Support shall be provided in terms of guidance, training, and editorial assistance to help researchers prepare quality manuscripts and navigate the publication process effectively.

### **9.3 Sponsored Research**

- Faculty members shall be encouraged to actively seek research funding by agencies such as DST, UGC, ICSSR, etc. by submitting proposals to national and international agencies.
- The University shall provide administrative and technical support by assisting in proposal development, budgeting, documentation, and compliance requirements to facilitate successful acquisition and execution of funded projects.

### **9.4 Research Funding and Support**

- The University shall provide internal financial support in the form of seed grants to encourage faculty members and students to initiate research projects, especially innovative and exploratory studies.
- Financial and administrative assistance shall be extended to researchers for participation in national and international conferences, workshops, and seminars to present their research and gain academic exposure.
- The University shall financially support researchers by bearing or subsidizing expenses related to patent filing, copyright registration, and publication charges in reputed journals.
- Adequate research infrastructure, including well-equipped laboratories, licensed software, and access to academic databases and e-resources, shall be provided to facilitate high-quality research activities.

### **9.5 Consultancy Services**

- Faculty expertise shall be utilized to provide expert consultancy services addressing practical problems faced by industries and government organizations.
- A structured system shall be followed for sharing consultancy revenues generated from consultancy projects between the University and the concerned faculty members, ensuring transparency and motivation.

### **99.6 Collaboration**

- The University shall establish formal collaborations through Memoranda of Understanding (MoUs) with reputed academic and research institutions to promote joint research and academic exchange.
- Strong linkages with industries shall be developed to undertake collaborative research projects, internships, and innovation-driven initiatives, ensuring practical relevance and applicability of research.

### **9.7 Conferences, Seminars & Workshops**

- The University shall actively promote academic engagement by organizing conferences, seminars, and workshops on contemporary and emerging research areas. Each department shall organize at least one national or international conference annually to provide a platform for researchers, academicians, and industry experts to share knowledge and discuss emerging trends. Conference proceedings and selected papers shall be published with ISBN/ISSN to ensure academic recognition and wider dissemination. Participation of eminent academicians, industry professionals, and researchers shall be encouraged to enrich discussions and knowledge exchange.
- The University shall conduct Faculty Development Programmes (FDPs), seminars, and workshops at regular intervals to enhance research skills, teaching effectiveness, and professional development of faculty and students.

These events shall be coordinated by the R&D Cell in collaboration with departments and external partners. Such initiatives will strengthen networking opportunities, foster interdisciplinary collaboration, and enhance the overall academic visibility and reputation of the University.

### **9.8 Publication of Journal**

The University shall establish a structured mechanism for publishing high-quality academic journals under the supervision of the Research & Development Cell. Each journal shall have an editorial board comprising experienced academicians and subject experts to ensure quality, originality, and relevance of published research.

The University shall promote the publication of its own peer-reviewed research journals at departmental and multidisciplinary levels to encourage scholarly contributions.

Journals shall be published periodically (bi-annual/quarterly) in print or digital or both print and digital formats to ensure regular dissemination of research work. All institutional journals shall obtain ISSN numbers and efforts shall be made to get them indexed in recognized databases to enhance visibility and credibility.

A rigorous peer-review process shall be followed to maintain academic standards and integrity. Faculty members, research scholars, and external contributors shall be encouraged to submit their research work for publication.

The journals shall cover diverse disciplines and promote interdisciplinary research, providing a platform for dissemination of innovative ideas and findings. Digital versions of the journals shall be made available on the University website for wider accessibility.

This initiative will enhance the research profile of the University, improve academic visibility, and contribute to knowledge sharing at national and international levels.

### **9.9 Research Incentive Policy**

The University shall implement a structured and transparent incentive system linking rewards to quality indicators such as journal indexing, impact factor, citation metrics, and the significance of research contributions. The incentive framework will ensure fairness, consistency, and alignment with institutional research goals.

The University shall provide financial incentives to faculty and researchers for publishing in reputed, peer-reviewed journals indexed in recognized databases, with higher rewards for high-impact and indexed publications.

Incentives shall be offered for filing and granting patents, as well as for successfully securing funded research projects from national and international agencies, thereby encouraging innovation and external funding.

Faculty members contributing to academic books, edited volumes, and book chapters with reputed publishers shall be recognized and rewarded to promote scholarly writing.

Incentives shall not be limited to financial rewards but will also include certificates of appreciation, awards, reduced teaching workload, and recognition during institutional events. This multi-dimensional approach aims to motivate sustained research engagement.

***Special emphasis shall be placed on:***

- Young and early-career researchers, by providing additional encouragement and support mechanisms.
- Interdisciplinary and collaborative research, by offering enhanced incentives for joint publications and projects.

Overall, the policy seeks to create a motivating environment that promotes excellence, innovation, and continuous improvement in research productivity.

## **10. RESEARCH ETHICS AND INTEGRITY**

All research activities shall be conducted in Strict adherence with established ethical guidelines & principles, ensuring honesty, transparency, and accountability in data collection, analysis, and reporting.

The University shall adopt a strict stance of Zero tolerance against any form of academic dishonesty, including plagiarism, falsification, or fabrication of data, with appropriate disciplinary actions for violations.

All research work, including theses, dissertations, and publications, must undergo plagiarism checks using approved software to ensure originality and authenticity.

Researchers shall adhere to recognized ethical norms and guidelines prescribed by national and international bodies, particularly in studies involving human participants, animals, or sensitive data.

## **11. INTELLECTUAL PROPERTY RIGHTS (IPR) POLICY**

The ownership of intellectual property generated through research shall be governed by institutional guidelines, ensuring fair recognition and benefit-sharing between the University and the concerned researcher(s).

The University shall provide necessary guidance, technical assistance, and financial support for filing patents, copyrights, and trademarks to protect research outcomes.

A transparent mechanism shall be established for sharing revenue generated from commercialization of research, ensuring equitable distribution between the University and the inventors.

## **12. MONITORING AND EVALUATION**

The research activities of faculty members and departments shall be regularly reviewed to assess progress, productivity, and quality of outputs.

A systematic annual research audit shall be conducted to document achievements, evaluate performance, and ensure accountability in research activities.

Evaluation shall be based on defined KPIs including number and quality of publications, citation impact, patents filed/granted, and externally funded research projects.

### **13. CAPACITY BUILDING**

The University shall organize regular training programs to enhance the research skills of faculty and students in areas such as methodology, statistical tools, and scholarly writing.

Workshops shall be conducted to guide researchers in preparing effective research proposals and identifying suitable funding sources.

Senior faculty members shall mentor early-career researchers and students to support their research development and career progression.

### **14. COLLABORATION AND NETWORKING**

The University shall develop formal collaborations with reputed institutions and industries to promote joint research and academic exchange.

Faculty and students shall be encouraged to engage in collaborative research, co-authored publications, and academic exchange programs at national and international levels.

The University shall promote active participation in research networks, forums, and consortia to enhance visibility and access to global research opportunities.

### **15. DOCUMENTATION AND DISSEMINATION**

A systematic and updated record of all research activities, including publications, funded projects, patents, consultancy work, and academic achievements, shall be maintained in centralized institutional databases to ensure proper documentation and easy retrieval.

The University shall regularly publish research newsletters, institutional journals, and annual/periodic reports to highlight research contributions. In addition, a bi-annual Research Directory shall be published to comprehensively document faculty profiles, publications, projects, patents, and other research achievements, thereby enhancing transparency and visibility.

Research outcomes shall be disseminated through conferences, seminars, workshops, institutional repositories, and digital platforms to ensure wider accessibility. Efforts shall also be made to share research findings with industry, policymakers, and the community for greater societal relevance and impact.

## **16. AMENDMENTS AND REVIEW**

The policy shall be reviewed at regular intervals to ensure its relevance in the context of emerging research trends, technological advancements, and evolving national and international guidelines.

Any modifications or updates to the policy shall be made with due approval from the competent authorities of the University, ensuring transparency and alignment with institutional objectives.

## **17. CONCLUSION**

The Research & Development Policy of Motherhood University, Roorkee, is designed as a comprehensive framework to foster a dynamic, inclusive, and supportive research environment within the institution. It integrates key dimensions such as a clear vision and mission, well-defined scope, and structured objectives aimed at strengthening the research ecosystem, enhancing the quality and quantity of research outputs, and promoting innovation and intellectual property generation.

The policy emphasizes essential characteristics including inclusiveness, interdisciplinary collaboration, ethical integrity, innovation-driven approaches, and outcome-oriented research, thereby ensuring a balanced and progressive research culture. Through dedicated institutional mechanisms such as the Research & Development Cell (RDC), Institutional Ethics Committee (IEC), IPR Cell, Innovation & Incubation Cell, and Research Advisory Committee (RAC), the University ensures effective planning, implementation, monitoring, and continuous improvement of research activities.

A strong focus is placed on key activities such as research promotion, publication support, sponsored research, consultancy services, and national and international collaborations. The provision of research funding, infrastructure, and capacity-building initiatives further strengthens the ability of faculty and students to undertake meaningful and impactful research. The inclusion of a structured research incentive system, organization of

conferences and workshops, and publication of bi-annual research directories ensures motivation, visibility, and systematic documentation of research outputs.

The policy also reinforces the importance of maintaining high standards of research ethics and integrity, protecting intellectual property rights, and adopting transparent monitoring and evaluation mechanisms based on defined performance indicators. Additionally, it promotes collaboration, networking, and effective dissemination of research findings to maximize academic and societal impact.

Overall, this policy reflects the University's commitment to building a sustainable and robust research ecosystem aligned with national priorities and global standards. It seeks to contribute significantly to academic excellence, knowledge creation, innovation, and societal development, thereby positioning the University as a progressive center of research and learning.

