# RESEARCH POLICY

## 1. INTRODUCTION:

Academic institutions have long been recognized as bastions of research, where the synergy between effective teaching and robust research is evident. Teaching and research are integral components of the educational process, complementing each other. It is clear that research is pivotal for enhancing teaching quality. Students engaged in research-based learning demonstrate improved learning outcomes, leading to higher rates of progression to advanced education, research, and careers. While primarily focused on teaching and learning, the institution acknowledges the significance of research as a key growth driver. Consequently, a deliberate effort is being made to develop an objective policy to foster, oversee, and evaluate research within the institution.

## 2. PURPOSE:

This policy aims to serve as a guiding principle for organizing research endeavors within the institution, promoting integration and coherence across departments and units.

## 3. SCOPE:

It provides guidance for all research-related activities undertaken across various departments of the institution.

## 4. OBJECTIVES:

- Establishing an environment conducive to research through structured frameworks and guidelines.
- Creating pathways for career advancement for trailblazers in both industry and academia.
- Facilitating faculty and researchers through established systems, processes, and resources.
- Ensuring research quality by encouraging publications in peer-reviewed journals and safeguarding intellectual property rights.
- Promoting applied research with potential for commercialization.
- Facilitating the establishment of Research Centers with a focus on excellence, often in collaboration with leading institutions and industry.
- Fostering avenues for interdisciplinary collaborations and national/international partnerships.

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## 5. IMPLEMENTATION OF POLICY:

The Principal and the Research Committee of the college shall be responsible for implementing and updating the Research Policy, subject to approval by the governing body.

## 6. POLICY AND GUIDELINES:

### Research Conduct:

Faculty members of the Departments and research centers are expected to engage in research activities, resulting in high-quality publications, presentations at reputable National/International conferences, development of intellectual property with commercial potential, socially impactful outcomes, and other relevant research endeavors.

### Research Contributions:

The research output of faculty members shall be considered a fundamental performance indicator for faculty recruitment and promotion, alongside other academic achievements.

### Recruitment and Promotion:

Significant contributions to research by faculty members and researchers shall be given substantial weightage in considerations for promotion. The quality of research will be evaluated based on evolving metrics, periodically reviewed and updated as necessary.

### Research Management:

The institution's research activities shall be meticulously planned, monitored, and evaluated by a Research Mentoring Committee.

### Research Ethics:

Faculty members, research scholars, and students must adhere to the highest ethical standards in conducting research. Disciplinary measures may be taken against individuals or groups found in violation of these standards.

### Resources for Research Support:

The institution is committed to providing top-tier research facilities, including physical infrastructure, equipment, software, computing resources, internet connectivity, and support staff, to facilitate high-quality research by students and faculty members.

**Student Research:**

In order to cultivate research skills among students and facilitate their progression in both career and higher education, undergraduate and postgraduate students are mandated to engage in research activities as part of their curriculum and through extracurricular research assignments. Furthermore, students are encouraged to publish their research outcomes in peer-reviewed journals.

## 7. QUALITY OF PUBLICATIONS:

The research conducted by the institution is aimed at benefiting society and contributing to national growth through scientific advancements and economic development. Therefore, research outcomes, in the form of publications, are expected to meet high standards, providing value not only to the scientific community but also enhancing the reputation of the individual researcher and the institution.

## 8. ETHICS IN RESEARCH:

### Importance of Research Ethics:

➢ To uphold the goals of research, such as expanding knowledge.

➢ To foster the values essential for collaborative work, including mutual respect and fairness, crucial for the collaborative nature of scientific research.

➢ To ensure public trust and support in research, essential for securing funding and sustaining research endeavors.

➢ To uphold significant social and moral values.

### Ethical Guidelines for Researchers:

**Honesty and Integrity:** Conduct and report research truthfully.

**Objectivity:** Avoid bias at all stages of research, from design to peer review.

**Carefulness:** Review work thoroughly to ensure credibility.

**Openness:** Be willing to share data, results, and tools to advance knowledge and science.

**Respect for Intellectual Property:** Avoid plagiarism and acknowledge contributions to one's research.

**Confidentiality:** Respect confidential information and adhere to guidelines for sensitive data.

**Responsibility in Publishing:** Publish to advance knowledge, avoiding duplicative or non-original work.

**Legal Compliance:** Adhere to relevant laws and regulations governing research.

**Animal Care:** Ensure proper care and respect for animals involved in research.

**Protection of Human Subjects:** Minimize harm and maximize benefits to participants and others.

## 9. Formation of Research Mentoring Committee:

To bolster ongoing research and developmental activities within the college, experts from diverse fields have been appointed to oversee institutional progress.

### Activities:

- Conduct orientation programs for faculty members on Research, Consultancy, and Innovation.
- Provide faculty with insights into various research areas in Engineering & Technology.
- Identify funding agencies for research projects (public and private).
- Establish models and mechanisms for industry collaboration in R&D.
- Design modern research, consultancy, and innovation facilities.
- Plan and procure research equipment, software, and journals.
- Establish Department Research Centers and Technology Incubation Centers for doctoral programs.
- Encourage graduate and postgraduate students to undertake high-quality projects.
- Establish partnerships with national Research Labs and other prestigious institutions through MoUs.

## 10. INSTITUTIONAL STRATEGIES FOR RESEARCH:

- Recruit educators demonstrating aptitude and proficiency in research.
- Equip laboratories with contemporary equipment, software, and library resources tailored to research needs.
- Foster alliances with prominent research groups for collaborative endeavors.
- Pursue external research funding from private and public agencies, particularly in focused frontier areas.
- Establish interdisciplinary research groups to pursue applied research.
- Engage industry for the establishment of on-campus research laboratories, benefiting both faculty and students.

## 11. INCENTIVES FOR RESEARCH

1. Incentives for Research Publication in Journals:
2. Faculty-published journals must be indexed in at least one of the following databases:

   - Web of Science (Engineering and Science)
   - Thomson Reuters (Engineering and Science)
   - Scopus (excluding Medical journals)
   - EMBASE (biomedical journals)

- EBSCO (Management database)
- DOAJ (directory of open-access journals)
- Expanded Academic ASAP (Cengage)
- Index Copernicus (scientific journals)
- Open J Gate (all journals)
- Pro Quest (all journals)
- Wiley International (Engineering and Sciences)

3. Selection of the best papers will be based on criteria including:

- Reputation of the Publisher
- Expertise of Review Committee Members
- Impact Factor
- Citation Index of the journal.

4. Paper selection is solely merit-based, with the final decision resting with the selection committee.

5. Papers published between July 1st and June 30th of each academic year will be eligible for incentives.

6. The committee will seek input from professors at national premier institutions before finalizing papers for incentives.

7. Incentives may be awarded on Teachers' Day, Science Day, or Engineers' Day annually. Only the first and second authors are eligible.

8. The first author will receive Rs. 6000, and the second author will receive Rs. 4000 for each paper.

9. If a faculty member publishes multiple papers, the incentive for each paper will be as specified above.

10. If the first author(s) is a student (UG or PG from SREC), the student will receive Rs. 2000, and the supervisor will receive Rs. 4000.

11. For faculty (single author), incentives will be: Rs. 12000 for two papers, Rs. 18000 for three papers, Rs. 24000 for four papers, and for five or more papers, either one lakh rupees or one month's salary, whichever is higher.

12. Faculty members awarded a patent will receive Rs. 50,000 as an incentive.

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