



11/21/2022

RESEARCH POLICY



TEEGALA KRISHNA REDDY ENGINEERING COLLEGE

Medbowli, Meerpet, Balapur(M), Hyderabad, Telangana- 500097

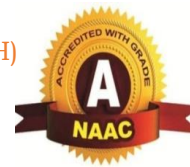
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(UGC-Autonomous)

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Accredited by NAAC- 'A' Grade. Accredited by NBA

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Mob: 8498085218. Email: info@tkrec.ac.in, www.tkrec.ac.in



College Code: R9

Date: 22-11-2024

RESEARCH POLICY

The research policy aims to foster an active and dynamic research environment among faculty and researchers within the institute. Its goal is to encourage, guide, and coordinate the research and consultancy efforts of both faculty and students in the fields of science, technology, and humanities. This encompasses major and minor research projects, organizing national and international conferences, presenting research findings, publishing in renowned journals, and managing various other research-related activities. All research initiatives at the institute are subject to approval by the R & D Cell.

1. RESEARCH AND INDUSTRY CONSULTANCY POLICY

This research policy provides a broad framework to guide scholarly research

1. Faculty members are encouraged to engage in research and industry consultancy work, both in focused and interdisciplinary areas.
2. Identify research areas and topics that hold academic, practical, and social significance.
3. Maintain high standards of quality, integrity, and ethics in all research activities.
4. Faculty must use plagiarism software before submitting research publications or project proposals, ensuring a similarity index below 10%.
5. Full administrative and financial support is provided for filing patents and other IPR-related activities for faculty, staff, and students.
6. The institution offers seed funding for internal projects to encourage young faculty to begin research, with the goal of applying for external funding later.
7. Faculty should motivate students to participate in industry consultancy projects.
8. Overhead charges from research grants can be used for purchasing equipment and partially for travel to international conferences.
9. Each Ph.D.-qualified faculty member is required to apply for at least one funded research project annually.
10. Faculty members with a master's degree must register for a Ph.D. and are allowed to pursue it part-time at any university while receiving a full salary.
11. The institution provides a stipend to full-time research scholars.
12. Faculty with Ph.D. qualifications should publish at least two SCI-indexed papers per year, while faculty with a master's degree must publish at least two Scopus-indexed papers annually.
13. Faculty members receive monetary incentives for Web of Science (SCI/SCIE/SSCI) and Scopus-indexed journal publications.
14. UG and PG projects must have a research focus and should be published in SCI/SCIE/SSCI or Scopus-indexed journals or conferences.
15. Faculty are encouraged to establish networks and MOUs with other higher learning institutions and research organizations, both in India and abroad.

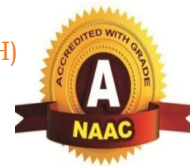
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16. The institution covers registration fees, travel, and accommodation for conferences, workshops, seminars, and other professional development activities as per the current rules.
17. The institution also provides funding support to organize conferences, workshops, and seminars.
18. Annual awards are given to faculty for excellence in securing research grants, publications, and external collaborations.
19. Performance incentives are offered annually to faculty based on research performance, including publications, patents, and funded projects, whether they have a Ph.D. or not.
20. The institution supports any other activity justified by faculty members as significant for their research efforts.

2. CONDUCT OF RESEARCH

The institute upholds the following key principles regarding research:

1. Researchers are free to choose their research topics, seek funding from any legitimate source, and reach their own findings and conclusions, which should be open to peer scrutiny and critique.
2. Research methods must adhere to professional ethical standards, ensuring the health, safety, privacy, and personal rights of individuals, and avoiding harm to animals.
3. The institute will create a supportive research environment by providing necessary infrastructure such as space, library, lab facilities, and, if available, funding, based on the academic merit of the research proposal.
4. To oversee and promote research activities, the institute will establish an Office of the Dean of Research, composed of senior faculty members appointed by the Principal.

3. SCOPE OF THE POLICY

The policy and procedures aim to outline the steps taken by the institute to address academic dishonesty and research misconduct in the following forms::

1. **Plagiarism:** This includes using quotations or paraphrasing another person's work without proper acknowledgment, as well as copying, representing, or submitting someone else's work as one's own.
2. **Misrepresentation of Research and Publication:** This refers to the fabrication or falsification of research data, or misrepresenting research publications in the form of book chapters, journal articles, or conference publications.
3. **Self-Plagiarism:** Submitting previously submitted academic or research material, in whole or significant part, without the prior and explicit consent of the mentor or supervisor.
4. **Policy Coverage:** This policy applies to research papers, theses, dissertations, project reports, term papers, book chapters, full books, and any other similar works submitted for evaluation or publication, whether in print or electronic form, by students, faculty, researchers, or staff. It excludes assignments, course essays, and answer scripts.

4. AWARENESS PROGRAMMES AND TRAINING

Institute shall conduct sensitization seminars and awareness programmes on responsible conduct of research, thesis, dissertation and promote academic integrity and ethics among students, faculty, researchers and staff.



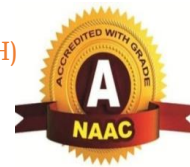
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5. CURBING PLAGIARISM

1. Declare and implement the technology-based mechanism using appropriate software so as to ensure that documents such as thesis, dissertation, publications or any other such documents are plagiarism-free at the time of their submission.
2. The software used is Drilbit/Turnitin.
3. The mechanism as defined above (point ii) shall be made accessible to all engaged in research work including students, faculty and researchers.
4. Every student submitting a thesis, dissertation, or any other such documents, shall submit an undertaking certifying that the document has been prepared by them and it is their original work and free of plagiarism. The same must be duly certified by the supervisor too.
5. The undertaking shall include the fact that the document has been duly checked through a plagiarism detection tool.

5.1 Research Ethics:

Research ethics are essential for several reasons. They help promote the fundamental goals of research, such as expanding knowledge. They also foster the values needed for effective collaboration, including mutual respect and fairness. Moreover, research ethics uphold key social and moral principles, such as ensuring that no harm is done to others

5.2 Ethical Guidelines:

Researchers should be fully aware of the ethical issues involved in their work and adhere to the following basic principles:

1. Principal investigators are responsible for all procedures and ethical issues related to their project.
2. Research must maintain the integrity of the field and avoid negative outcomes that could hinder future research.
3. Research topics should be chosen based on scientific merit, balancing potential benefits to participants and society against any risks involved.
4. Researchers must consider the impact of their work, including potential misuse, on individuals, groups, colleagues, and society.
5. If a research method has potential harmful effects, it should only be used after consulting experts and justifying its necessity.
6. Research must be conducted competently, objectively, and without bias, with all personnel qualified in the procedures they use.
7. Research should comply with local customs, laws, standards, and regulations.
8. Researchers studying cultures or communities other than their own should respect and understand the host culture, clearly communicating their objectives.
9. The principal investigator's ethical principles should be clear to all participants, and conflicts should be resolved before the research begins.
10. Research must respect the privacy, dignity, and welfare of participants, avoiding undue intrusion and prioritizing their well-being.



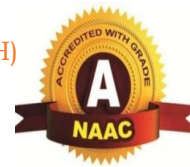
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5.3 Ethical Principles:

The following is a rough and general summary of some ethical principles that various codes address:

1. **Honesty:** Be truthful in all scientific communications, including reporting data, results, and methods. Avoid deception or misrepresentation.
2. **Objectivity:** Avoid bias in all aspects of research, including design, analysis, and review. Disclose any conflicts of interest.
3. **Integrity:** Honor promises, act sincerely, and ensure consistency in thought and action.
4. **Carefulness:** Prevent errors and negligence by thoroughly examining your work and keeping detailed records.
5. **Openness:** Share data, results, and ideas, and be receptive to criticism and new perspectives.
6. **Transparency:** Clearly disclose methods, assumptions, and other information needed to evaluate research.
7. **Accountability:** Take responsibility for your actions in research and be ready to explain your decisions.
8. **Intellectual Property:** Respect patents, copyrights, and other intellectual property, and give proper credit for contributions.
9. **Confidentiality:** Protect sensitive communications, including unpublished papers, trade secrets, and patient information.
10. **Responsible Publication:** Publish to advance research, not just personal gain, and avoid unnecessary or duplicate publications.
11. **Responsible Mentoring:** Support students by mentoring and advising them while allowing them to make their own decisions.
12. **Social Responsibility:** Use research to promote social good and prevent harm, and engage in public education.
13. **Non-Discrimination:** Treat all colleagues and students fairly, without bias based on gender, race, or ethnicity.
14. **Competence:** Continuously develop your professional skills and encourage competence in the scientific community.
15. **Legality:** Know and follow all relevant laws and policies.
16. **Human Subjects Protection:** Ensure the safety, dignity, and privacy of human subjects, with extra care for vulnerable groups, and ensure fair distribution of risks and benefits

6. RESEARCH SEED MONEY

The purpose of the research seed money is to foster a dynamic research environment among young faculty and researchers. Based on the quality of proposals, up to 15 faculty members per academic year may receive seed funding of up to Rs. 5,00,000/-. However, this limit is flexible for high-potential, cross-disciplinary research collaborations..

Objectives of seed money policy:

1. Foster a supportive environment for research.
2. Encourage socially beneficial research with commercialization potential.
3. Provide opportunities for faculty to engage in real-world research projects and secure sponsorships.
4. Develop strong, successful proposals for external funding.
5. Test new ideas and generate preliminary results for external submissions.



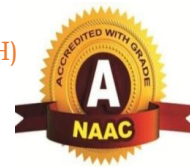
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6. Promote inter-faculty collaboration in emerging fields.
7. Encourage the creation of intellectual property (IPR) and product/process innovation.
8. Attract and retain talented researchers.

Seed grant proposal submitted may include the following (suggestive):

1. **Research Plan:** Outline the overall research vision and scope.
2. **Introduction and Seed Grant Project Description:** Provide a brief overview of the project, highlighting its significance and objectives.
3. **Proposed Research or Creative Activity:** Describe the specific research or creative activities planned.
4. **Literature Summary and Objectives:**
 - ❖ Summarize relevant literature.
 - ❖ State specific objectives and primary research questions.
 - ❖ Identify expected outcomes or products.
 - ❖ Detail procedures and methods to be utilized.
 - ❖ Highlight novel or cutting-edge aspects of the project.
 - ❖ Discuss broader impacts of the research.
 - ❖ Address possible pitfalls or risks and mitigation strategies.
5. **Relevance to Principal Investigator's (PI) Career:** Explain how the seed grant and external proposal will advance the PI's career.
6. **Relationship to External Funding Goal:**
 - ❖ Describe how the seed grant outcomes are relevant and necessary for developing a successful external proposal.
 - ❖ Explain how seed grant work will enhance the external proposal.
 - ❖ Discuss mitigation strategies for less satisfactory project outcomes in the external proposal.
 - ❖ Consider involving extension specialists for broader impacts related to agencies like DST, AICTE, ISRO, or DRDO.
7. **Management Plan**
 - ❖ Detail the scope of work and responsibilities of key personnel.
 - ❖ Describe coordination of data and responsibilities for interdisciplinary partnerships.
 - ❖ Outline communication management and strategies.
 - ❖ Provide a timeline for major activities, including external proposal submission.
 - ❖ Include data management plans.
8. **References:** Provide all references cited in the proposal (no page limitation).
9. **Budget:** Include a detailed budget with a suggested template for expenses.

S. No	Item	Amount (Rs)	Justification
1	Consumables		
2	Equipment		
3	Travel (Do not exceed the 10% of the total amount)		
4	Research Literature		
5	Other(specify) (Do not exceed 10% of the total amount)		

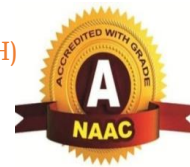
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6	Contingency		
Total			

- ❖ Appendices (required, no page limitation).
- ❖ Appendix A: Curriculum/Curricula Vitae (required, 2-page **maximum** per person). CV information is required for the PI and any Co-Is. Include as part of the CV a record of grant writing experience and role (PI or co-I).
- ❖ Appendix B: Conflict of Interest (required) Disclosure of any potential conflicts of interest is required for the PI and any co-Is
- ❖ Appendix C: Results of Previous Seed Funding (if applicable). Provide a one-page description of the results of any previous research seed funding the PI has received.

7. INCENTIVES FOR RESEARCH PROJECTS, PUBLICATIONS, IPRs AND INDUSTRY CONSULTANCY PROJECTS:

Research and Development (R&D) are essential for fostering inclusive intellectual growth, serving as a critical first step toward innovation. R&D drives technological advancements, ultimately contributing to the growth of Science and Technology (S&T). The Institute of Aeronautical Engineering is committed to encouraging, supporting, and promoting R&D activities to achieve these goals by implementing the following incentive policy:

1. An incentive of **Rs. 30,000** will be granted for publications in unpaid refereed journals indexed in Scopus and SCI/ESCI/SCIE.
2. An incentive of **Rs. 20,000** will be granted for publications in unpaid refereed Scopus-indexed journals.
3. For paid refereed Scopus-indexed journals, the incentive will match the publication fee, up to a maximum of **Rs. 15,000**.
4. Faculty will receive **Rs. 2,000** for every citation in journals indexed in SCI/ ESCI/ SCIE/ Scopus with an impact factor of **0.5 or higher**.
5. A registration fee of up to **Rs. 10,000** will be granted, along with an additional **Rs. 10,000** as an incentive for participation in Scopus/SCI-indexed conferences.
6. For book publications, the first author will receive an incentive of **Rs. 5,000**.
7. Faculty securing sponsored research projects from agencies like DST, AICTE, or UGC will receive **7%** of the sanctioned amount (3% on submission of the first utilization certificate, 2% on the second, and 2% on the third) during the project period. An additional **5%** of the sanctioned grant will be awarded upon successful completion and submission of the project completion report to the respective funding agency.
8. Faculty awarded government-funded schemes will receive an overall incentive of **3%** of the total grant after successfully submitting the utilization certificate and scheme completion report to the funding agency.
9. For utility patents, faculty and students will receive an incentive of **Rs. 30,000** each once the patent is published, granted, and commercialized. The total incentive granted during the patent grant process for institute-owned utility patents is **Rs. 90,000**.
10. For design patents, an incentive of **Rs. 30,000** will be provided after the patent is published, granted, and commercialized.



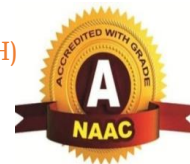
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11. For copyrights, the Institute grants an incentive of **Rs. 10,000** for computer software once the copyright is published, granted, and commercialized.
12. Revenue generated from consultancy and testing services will be shared between the institution and the faculty individual/team as per the budget of the work done.
13. Revenue generated from the commercialization of patents will be shared between the institution and the author(s) based on the costs involved in the process.
14. TA/DA for project presentations will be provided to every faculty member if not covered by the funding agencies.
15. The registration fee for workshops, FDPs, STTPs, and MOOCs will be reimbursed, and for professional memberships, half of the registration fee will be reimbursed to faculty members up to **Rs. 10,000**.
16. The registration fee for MOOC courses completed by students will be reimbursed up to **Rs. 2,000**.

9. RESEARCH PUBLICATIONS ADDITIONAL QUARTILE INCENTIVE (With effect from 1 December 2022)

SCImago Journal Rank (SJR) Indicator

The SCImago Journal Rank (SJR) indicator measures the scientific influence of scholarly journals by considering both the number of citations received by a journal and the prestige of the journals from which these citations originate. The SJR is a numeric value that reflects the average number of weighted citations received during a selected year for documents published in that journal over the previous three years.

SJR is recognized internationally as a standard for categorizing journals into quartiles, which helps researchers identify the relative standing of journals within their respective fields. Each subject category of journals is divided into four quartiles:

- ❖ Q1: Represents the top 25% of journals, indicating the highest scientific influence.
- ❖ Q2: Represents journals in the 25% to 50% range, signifying moderate influence.
- ❖ Q3: Comprises journals in the 50% to 75% range, indicating lower influence.
- ❖ Q4: Includes journals in the bottom 25%, reflecting the least scientific impact.

Abstracting & Indexing

Type	Abstracting & Indexing	
A	SCOPUS	
B	WEB OF SCIENCE	Arts & Humanities Citation Index
		Science Citation Index Expanded
		Social Sciences Citation Index

Publication Incentives

Scimago Journal Ranking (SJR)	Incentive Amount up to in (Rs.)	
	(A+B)	(A or B)
Q1	50,000	35,000
Q2	30,000	25,000

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Q ³	15,000	10,000
Q ⁴	15,000	10,000

The publication incentives provided to TKREC faculty include the regular publication incentives mentioned in criterion 7 and the additional quartile benefits for Q1 and Q2 listed publications as below:

Q1 Listed Publications		
Position of the author	Additional quartile incentive up to(Rs.)	
	(A+B)	(A or B)
First Author	35,000	25,000
Second Author	25,000	20,000
Third Author	15,000	10,000
Fourth Author	15,000	10,000
Q2 Listed Publications		
Position of the author	Additional quartile incentive up to (Rs.)	
	(A+B)	(A or B)
First Author	20,000	15,000
Second Author	15,000	10,000
Third Author	10,000	-
Fourth Author	-	-

PRINCIPAL