

Autonomous (Approved by AICTE, New Delhi, Accredited by NAAC with 'A' grade & Permanently Affiliated to JNTU Kakinada) Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. - 531 162 (A.P.) Ph: +91-8922-248001, 248002 Fax: + 91-8922-248011 e-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

R&D Policy



R&D Cell

Raghu Engineering College (Autonomous)

Visakhapatnam



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TABLE OF CONTENTS

S. No.	Description	Page
		Number
1	Preamble	4
2	Promotion of Research	4
3	Objectives	5
4	R&D Committee	6
5	Research Strategy	6
6	Research Incentive Policy	7
	6.1: Incentives for Publications in Journals and Conferences	7
	6.2: Incentives to Students for Publications in Journals and Conferences	8
	6.3: Incentives for patents	8
	6.4: Incentives for Publication of Books	8
	6.5:Incentives for Research grants and undertaking consultancy projects	8



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1. Preamble

We at Raghu Engineering College (REC) strongly believes that faculty members and students must be encouraged and provided with infrastructure and support to do high standard research, which will be beneficial for society. With this aim in mind REC adopted a research policy that fosters an environment conducive to research integrity, excellence and professional conduct. It directly contributes to the economic growth, cultural development, health sector and advancement of society.

The Institute's facilities, both in terms of infrastructure and academics are of the highest caliber. The main objective of REC to promote and motivate faculty members to undertake research projects that benefit society. Biomedical image processing, Anteena design, low power VLSI, artificial intelligence, machine learning, IoT, Electric drives, power electronic converters, vehicle design, nano-materials, robotics and other areas like alternative energy and the environmental studies.

The R&D policy also seeks to ensure that all research activities are conducted in accordance with all applicable rules and regulations as well as the established standards and norms pertaining to the safe and ethical conduct of research.

2. Promotion of Research

Knowledge is dynamic in all fields of technical education, with new technologies being presented on a regular basis. In this situation, teachers will be unable to provide high-quality instruction unless they are up to date on current advancements in their disciplines, which they must do on a regular basis. Teachers as researchers must be aware of past, present and future advancements in their fields. Many top universities and institutions in the world have found a strong link between quality teaching and research.

All the necessary facilities and a conducive environment for research, consultancy, innovation and intellectual pursuits are provided by the institute. In order to obtain funding for their research, faculty are encouraged to approach different Govt./Non Govt. funding agencies. However, REC is willing to encourage faculty and students by providing partial funding based



on the quality of proposals submitted. Some of the faculty and student research projects will be funded by the institute after scrutiny and recommendation by proper authorities.

3. Objectives:

- > To prepare annual research plan for all the departments.
- > To promote research activities to bridge the gap between academia and industry.
- To motivate students and faculty members to take up research projects and publish papers in highly reputed journals and conferences.
- > To create awareness about filling Patents and IPR.
- To encourage faculty members of all disciplines of Engineering/Science/Humanities to apply funding offered by different agencies such as DST, AICTE, ISRO, CSIR, DRDO etc.
- To motivate and assist faculty members for applying and getting funds from conducting FDPS/workshops/Seminar from available funding agencies.
- To provide support to faculty members for attending delivering talks at different events such as conferences, workshops, symposia and faculty development programs.
- > To promote and encourage faculty members to take up interdisciplinary research projects.
- > To encourage existing faculty members to pursue their PhD.
- To initiate and promote MOU with leading R&D organizations and industries for consultancy, sponsored project, collaborative research and industry institute interaction.
- To organize brainstorming sessions by eminent personalities from industry, R&D firms, and reputable institutions for a better understanding of current research technique and procedures followed.
- > To formulate incentive schemes for promoting research activities in the institute.
- > To continuously monitor the progress of the R&D activities of the institute.



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4. R&D Committee:

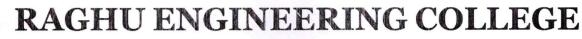
REC recognized the importance of research and development for the institution's vertical expansion and established the R&D cell to focus on scientific and industrial research in various engineering disciplines. The R&D committee comprises of Principal, Dean (R&D), and coordinators from various departments of the institute. This committee ensures that the Institute's research and development efforts are coordinated smoothly and efficiently.

The R&D committee is constituted with the following members:

- 1. Chairman: Principal
- 2. Convener: Dean (R&D)
- 3. Coordinator: Dept. of S &H
- 4. Coordinator: Dept. of Civil Engineering
- 5. Coordinator: Dept. of Computer Science Engineering
- 6. Coordinator: Dept. of Electronics and Communication Engineering
- 7. Coordinator: Dept. of Electrical and Electronics Engineering
- 8. Coordinator: Dept. of Mechanical Engineering

5. Research Strategy:

- Establishment of Research Infrastructure.
- Seed Grants for the Innovative ideas.
- Mentor and empower the faculty.
- Relationships with top schools worldwide for collaborations.
- > Focus on UG students to be known for life skills and research.



Quantify and recognize the research performance (in terms of research support, and financial incentive)

financial incentive).

- ▶ Work with milestones in terms of measurable parameters.
- > To identify real world scientific problems and finding acceptable solutions.
- To be known for outstanding research in the field of Engineering and Technology domain.

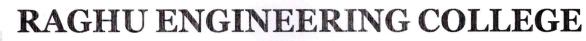
6. Research Incentive Policy:

The primary objective of the proposed incentive scheme is to motivate the faculty members of Raghu Engineering College to undertake quality research, consultancy and other research related activities.

6.1 Incentives for Publications in Journals and Conferences:

- Incentives shall be applicable to papers which are published in journals indexed by SCOPUS/SCI/SCIE (Web of Science).
- The incentive shall be applicable to only those papers where the author's affiliation is "Raghu Engineering College".
- > In case of multiple authors from REC, the incentive shall be given to the first author.
- In case of collaborative work with other institutions and organizations, the incentive shall be given to the author from REC.
- > Incentive of Rs 5000/- for paper published in journals indexed by SCI/SCIE.
- > Incentive of Rs 3000/- for paper published in journals indexed by Scopus/WOS.
- Incentive of Rs 2000/- for paper published in reputed international conferences (Scopus indexed).

7



Incentive of Rs 1000/- for papers published in UGC approved journals not indexed by Scoups and Web of Science.

6.2 Incentives to students for Publications in Journals and Conferences

Students from Raghu Engineering College shall also be entitled for the incentives as per the clause incentives for publication in journals and conferences.

6.3 Incentives for patents:

- Incentives shall be applicable to patents which are filled jointly with Raghu Engineering College.
- > Incentives for each published patent shall be Rs. 3000/-.
- > Incentives for each granted patent shall be Rs. 5000/-.

6.4 Incentives for Publication of Books:

- > Incentive for Books published by renowned international publishers shall be Rs 3000/-.
- > Incentive for Books published by renowned National publishers shall be Rs 2000/-.
- Incentives for contribution of chapters renowned international and national publishers shall be Rs 2000/-.

6.5 Incentives for Research grants and undertaking consultancy projects:

- The incentive will be 5 % of the total research grant received from the funding agency (In case of more than one faculty member involved, the amount shall be shared equally among all).
- The faculty members involved in the consultancy project will take 20% of the total value of the consultancy amount received (In case of more than one faculty member involved, the amount shall be shared equally among all).



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6.6 Department R&D fund

The annual department R&D fund allocated to every department every year, which may be used for different R&D activities such as UG projects, PG projects and implementation of innovative ideas by students and faculty members. The HoDs are empowered to recommend the applications to the principal, with a copy to Dean (R&D). After the prior approval, the fund may be utilized for the cause.

6.7 Seed money scheme

The Seed Money scheme of Raghu Engineering College is intended to encourage competitive research and to promote innovative product and technology development which will potentially develop into creative ventures on their own through external funding.

6.7.1 Eligibility, selection criteria and budget

- > Applicant must be a full-time recruited faculty at Raghu Engineering College.
- A faculty can submit only one proposal for an academic year. However, he/she can be a co-investigator in more than one proposal.
- Proposals will be invited once in a year.
- > The full proposals will be reviewed by a selection committee nominated by principal.
- > Decision on the grant award will be announced by the selection committee.
- > The funding support under this scheme will be up to Rs. 20,000/-.



- > Funding is available for minor equipment/software/consumables/travel support and contingencies.
- > PI will be responsible to complete the project and submit the project completion report.

6.8 Other Conditions/Guidelines

- At the end of the academic year, based on the evidence produced by the faculty members and recommendation of the research board, the incentive will be paid to the faculty member.
- The incentive shall apply to any number of papers, subject to the condition of Intellectual Property Rights and research publication guidelines.
- Claims on duplicated papers with different titles of the same content in different journals, seminars or dailies, establishment of plagiarism and such other irregularities shall attract severe disciplinary action, including recovery of incentives paid earlier and other disciplinary actions.
- The application form with prescribed format is available with Dean (R&D). The eligible faculty members are expected to submit the duly filled application form and attach copies of evidence duly counter signed by the HOD.
- After thoroughly checking the authentication of the claims by the Principals office, incentive amount will be disbursed to the concerned faculty member.
- ➤ As this being a tentative scheme, the criteria and modalities will be amended then and there, by the college.

7. Code of Ethics for Research

The code of ethics guidelines followed by the institute for responsible research is applicable to all faculty members, research scholars and students.

1. Academic honesty: Raghu Engineering college faculty and students required to demonstrate intellectual and moral honesty in conducting and reporting result. Do not fabricate, falsify and misrepresent data.



2. Objectivity: The objective of the research work must be clearly defined, and there must be no element of bias in the conception of the methodology, data analysis and data interpretation. The objective may have a fundamental interest in addition to having a goal towards the welfare of society, community, nation and nature.

3. Integrity: The institute holds the strictest measure of integrity. All researchers have to act with sincerity keep their promises and agreements as well as their thought and action shall be consistent.

4. Carefulness: Researchers are expected to carefully and critically examine their own work and the work of their peers and keep record of their research activities.

5. Openness: One of the principles of good research is to share the research results. Researchers must share data, results, ideas, tools and resources.

6. Respect for Intellectual Property: All researchers must honor patents, copyrights, and other forms of intellectual property. They should not use unpublished data, methods, or results without due permission. Never plagiarize and credit needs to be given where credit is due.

7. Confidentiality: Researchers should protect confidential communications, such as papers or grants submitted for publication, personnel records, and patient records.

8. Respect to colleagues and responsible student monitoring: Institute faculty members should respect to colleagues and help to educate, mentor, and advise students to follow research ethics.

9. Social responsibility: The institute strives to promote social good through quality research and prevent social harms for people, nature and society through research.

10. Competence: Institute believes in improving professional competence and expertise through lifelong education and learning. A number of steps initiated regularly to promote competence in science as a whole.

11. Legality: Researchers must know and obey relevant institutional and government laws and policies.

12. Rules for preventing plagiarism: Institute views plagiarism of any kind as an unacceptable form of misbehavior and a violation against other researchers. The concerned students and



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faculty needs to check for plagiarism by using software tool provided by the institute before submitting their research articles.



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