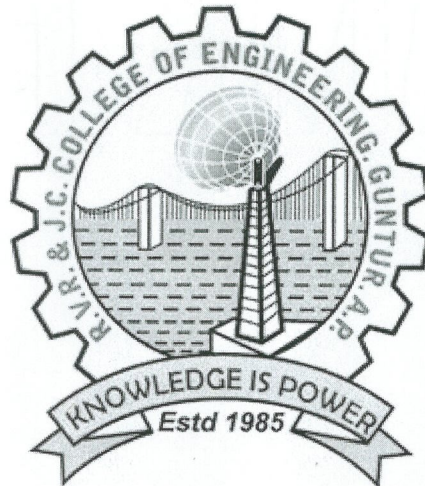


R.V.R. & J.C.COLLEGE OF ENGINEERING

RESEARCH POLICY



R.V.R. & J.C.College of Engineering (Autonomous)

Chandramoulipuram, Chowdavaram, GUNTUR-522 019

Andhra Pradesh :: India

Ph: 94910 73317 & 94910 73318 (O)

Fax: 0863 - 2350343

E-mail: principal@rvrjc.ac.in

Website: rvrjce.ac.in

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RESEARCH POLICY

I. INTRODUCTION:

The purpose of the research policy is to create a vibrant research atmosphere among the faculty and researchers at RVR&JC College of Engineering. The research environment includes laboratories, infrastructure and equipment. Faculty are required to participate in research, publish their work and participate in national and international conferences to present the research data and generate new concepts in the emerging areas, if required by collaborating with other national and foreign universities. Research experiences enrich an institution in many ways.

Research and developmental activities create and disseminate new knowledge in various fields, promote innovation and motivate better learning and teaching among faculties and students. In such an environment, students report more interest in their coursework and more confidence in their teachers.

Research brings new energy, state-of-the-art facilities, promotes research activities, develops collaborations and becomes a part of active community that shares the mission objectives. Doing this can attract support from government, industry, and private sources, a fourth benefit.

Provides support to researchers to coordinate with potential funding sources so as to finance their research and development activities. R&D paves way for the creation of innovative institutional mechanism and development of center of excellence in the areas of expertise. R&D activities will be encouraged to develop tools, equipment and machineries for industries.

Research activity of academic staff will be considered for career growth and administrative responsibility. The policy aims at providing the academic staff with the right to conduct research, encouragement to publish their findings and support their rights in seeking scholarships and funds.



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Establishing Department specific research centers with the potential for excellence, guiding scholars, ensuring publications in quality journals and creating an environment of undertaking socially useful research with a potential edge for commercialization.

Research enhances the reputation of an institution, attracting superior students and faculty. Not only are faculty drawn to such an institution but they are more likely to remain, which is important because retention of talented instructors and researchers contributes to sustaining excellence.

Research program opens up possibilities for collaboration, locally, regionally, and globally. These connections raise the profile of an institution and create opportunities for advancement of many kinds, including associations with industrial firms that are nowadays an increasingly important partner in higher education initiatives.

II. AIMS OF THE POLICY/OBJECTIVES

1. To provide necessary information and guidance to the faculty members and motivate for applying Research Projects sponsored by external agencies such as UGC, AICTE, DST, etc.
2. Define and prioritize the thrust areas for research to be conducted in the RVR & JC CE.
3. To review the progress of ongoing research projects.
4. To take necessary steps so that Annual Progress Reports, Project Completion Reports, Utilisation Certificates are submitted regularly to the concerned authority within the stipulated time
5. Provide essential infrastructure support for the research work and promote the research by motivating the faculty members.
6. Establish rational, transparent, merit based decision-making systems for the allocation of financial and other support for research.



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7. To motivate the faculty members to publish the research papers in reputed peer reviewed journals of at least 10 years standing
8. To maintain a record of faculty publications
9. Develop short term and long term research program plans to promote and strengthen research.

III. GUIDELINES:

1. The research conducted at the RVR & JC CE, Guntur should be conducted as per the guidelines of funding agencies and fulfilling other ethical/legal requirements.
2. The publications from the RVR & JC CE should follow guidelines for reporting their research work.
3. There should be a central statistical and research unit for continual support for the research.
4. Authors can select any suitable journal for the publication of their work.
5. The research should be aimed towards: highest standard in "cutting edge" state of the art at global level aimed at providing services/contributions to the society.
6. The researchers should be encouraged to sought the funds for their projects from external funding agencies.
7. Internal funding for the research can be provided and the mechanism for the same needs to be established.
8. There should be a Research and Recognition Committee for each faculty to guide and monitor the research activities periodically to enhance the quality of research.
9. The faculty and post graduate students should be encouraged to attend state, national and international conferences and present their work in these conferences, using posters, preferably by oral presentation.
10. There should be a mechanism for funding the faculty and post graduate students to attend these conferences.



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11. Enhancement of Institutional Research Profile :

- a) Develop a rational model for the adequate provision of internal RVR & JC CE resources for research.
- b) Provide with financial, infrastructural and human resources to develop and enhance institutional research.
- c) Provide financial incentives for researchers to engage in high quality, internationally competitive sustainable research activity.
- d) Initiate research mentor-ship concept for attracting young researchers.
- e) Direct all the efforts to the enhancement of the postgraduate/graduate students research profile and thus strengthening the research activities of the RVR & JC CE. Encourage the researchers to create intellectual property rights & apply for a patents.

IV. POLICY FOR THE RESEARCH SUPPORT

The RVR & JC CE has designed the proactive policy to promote the research, thus motivating the faculty members and students of the RVR & JC CE to undertake the activities by adopting a policy of integration support by adopting following special norms:

- Travel grant to present papers in national and international conferences.
- Research funding for the projects.
- Installation of annual research awards and young research award.

V. Developing and executing a robust research policy:

- To develop a long-term research plan with short-term and long-term objectives such as research publications, book writing and PG research and filing patents.



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- To hold the database of all the R&D facilities established in institutions around the country Researchers and Resources are linked through **I-STEM** (Indian Science Technology and Engineering facilities Map).
- Each Faculty, and its constituent academic units, is required to develop and implement his/her own research plan that is consistent with and delivers to the RVR & JC CE strategy and strategic Plan.
- RVR & JC CE typically look to the following sources for funding research:
 - Government ministries and departments: MHRD, DST, CSIR, DBT, MoES, SERB, etc.
 - Other universities with larger research programs.
 - Industry collaborations and consulting projects.
 - Alumni network.

VI. Research Centers:

Research centers are established to raise the research profile of the college, focus strengths in areas where there is a concentration of research excellence and to maximize external research funding. research centers help position and promote the areas of research excellence and build the institute's research reputation. They also serve as vehicles for engaging with other research institutions and industries to facilitate interdisciplinary and multidisciplinary relationships.

Research centers may include involvement of nationally and internationally recognized researchers. The Institute must be aligned to the priorities of the research funders and the interests of end users. The research cell of RVR & JC involves in conducting interdisciplinary activities such as

- Identifying the interdisciplinary area.
- Identify the different experts from concerned disciplines who can work together.



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- Study the requirement of infrastructure to carry out the interdisciplinary research work.
- Explore possibilities to find resources for such interdisciplinary research.

VII. Sponsored Research projects:

The R&D Cell has identified a list of funding agencies and schemes and the faculty can submit major research projects proposals to these agencies. These proposals are scrutinized by the R&D Cell of RVR & JCCE before submitting the same to a funding agency. The institute provides all kinds of infrastructure facilities required to carry out all major/minor research projects. The R&D cell shall monitor the progress of major research projects funded by an external agency, maintain its accounts and submit the utilization certificate in time to the funding agency as per the requirement.

Every department should have atleast one sponsored research project obtained either from the Govt. or private or R&D institutions. Complete funding to carry out the sponsored research projects must be obtained from the organization for which the project is carried out. The funding must cover all aspects which include equipment, testing facilities and specialized man power resources etc. The system to be adapted for conducting the research will be discussed and approval of the management and the organization is obtained before such an effort is undertaken

All the sponsored projects must lead to publications and if possible patents. Every department should have a tie up with the industry to work on a research project which should lead to publications and collaborative nature. Students, either from UG or PG programs can be involved in the sponsored research projects and can be paid research assistant allowance out of the funding for the sponsored research projects.



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VIII. Publication of papers in conferences and journals:

The faculty of RVR & JC are encouraged to publish papers in quality journals. The institute plans to encourage the publication of papers by the faculty with a targeted aim. A faculty member will be expected to publish a certain number of research papers in referred national and international journals. These journals shall be identified by respective departments. Research papers to be published in identified journals and to be presented at national and international conferences shall be scrutinized and guided by a research cell of the institute.

IX. Intellectual Property:

The R & D Cell recommends Intellectual Property policy guidelines to the administration. In case of any innovation RVR & JC encourages the researcher to patent it, the institute creates awareness about intellectual property rights among faculty, researchers and scholars from time to time.

X. Code of Ethics for Research

1 Academic Honesty

The Institute holds high respect for Honesty in all scientific Communications- honesty in reporting data, Results, methods and procedures and publication status. The institute does not entertain fabrication, falsification, misrepresentation of data. Deceiving colleagues or funding agencies or public is considered misconduct on the part of the researcher.

2 Integrity

The Institute gives high regard for keeping up promises and agreements, sincerity and consistency of thought and action.



A handwritten signature in blue ink, appearing to read "K. Srinivas" or similar.

3 Carefulness

The principles of good research are to avoid careless errors and negligence. One must carefully and critically examine one's work and the work of peers and keep a record of research activities such as data collection, research design and correspondence with agencies of journals.

4 Respect for Intellectual property

Another most important thing is to honor patents, copyrights and other forms of intellectual property. One must not use unpublished data, methods, or results without permission. Credit needs to be given where credit due. Research contributions must be given proper acknowledgment/credit and plagiarize must be avoided at any cost.

5 Confidentiality

It is on the ethical part of any researcher to protect confidential communications such as papers or grants submitted for publication and personal records.

6 Social Responsibility

Another principle is, to strive to promote social good and utilization of funds for technology enhancement through research, public education, and advocacy.

7 Competence

It is desirable to improve professional competence and expertise through lifelong education and learning. One must take steps to promote competence in engineering or science as a whole.

8 Legality

A researcher must know and obey government policies, relevant laws and institutional rules and regulations.



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9 Protection of Human Subjects

It is advisable to minimize harm and risks to human subjects and take special precautions with vulnerable populations when conducting research. We need to respect human dignity, privacy and autonomy. It is desirable to maximize the benefits from research and distribute the benefits and burdens of research fairly.

10 Rules for Preventing Plagiarism

All project/Seminar Reports, Dissertations/Thesis, Research papers, Case studies and any such documents need to be checked with the standard plagiarism software Tool. In case of project/seminar Reports, Dissertations/Thesis, the concerned student needs to submit a plagiarism Report generated by a software Tool to the dependent, with the signature of the concerned guide/Supervisor. The students submitting any kind of research work in the form of Reports/Thesis must provide a 'Certificate of Originality of Work' with signature of concerned Supervisor/Guide. In order to avoid copying in course assignments, the faculty members are required to design assignments that encourage the students to analyze and evaluate rather than asking them to collect describe or present information, data etc. A training program on the use of Plagiarism Detection Software Tool should be organized for students, faculty, staff and research fellows.

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