



GOVERNMENT COLLEGE OF ENGINEERING, KARAD.

Established in 1960

शासकीय अभियांत्रिकी महाविद्यालय, कराड.

स्थापना १९६०



(An Autonomous Institute of Government of Maharashtra)



Research Policy

Vision

“To emerge as a technical institute of national repute, driven by excellence in imparting value based education and innovation in research; to face global needs of the profession”

Mission

“To create professionally competent engineers driven with a sense of responsibility towards nature and society”

March 2017

(Approved by Board of management in 12th meeting held on 17th March 2017, vide item no. 12.23)

Preface

Greetings to the researcher family of GCEK, the premier institute of UG, PG and PhD in Engineering and Technology. It is the right time to boost research culture of the Institute by promoting young researchers. This giant leap of the GCEK in joining hands to create intellectual and innovative culture in the campus is a laudable initiative to meet global standards and to fulfill changing need of time.

Now it is the time to think globally and act locally. Researchers must think in the global perspective but must not forget local/ regional/ national requirements. Although, Universities all over the world emphasize on basic research, however, it should be such that it must contribute to enhance existing knowledge and should be helpful in applied research.

The Institute is much aware about the regional requirements and is much concerned for its engineering needs. We are committed to join our hands with the policies of Central and State Government to boost Make in India venture a true success in near future. This Institute is also much cautious about environmental issues and we are firmly determined for Green and Clean Environment. Our researchers are actively involved in addressing rural needs and exploiting natural non-conventional energy resources like solar and wind energy. This Institute has already established a Task Group for promoting excellence in research. The research policy has been conceived with a visionary foresight and immense optimism. This policy introduces the noble intentions that would be further strengthened by the active and whole hearted involvement of our researchers, faculties and students.

I heartily wish that committed and concerted efforts of all the stakeholders will certainly improve the standard of research and will provide long lasting ambience of intellect and innovation.

Dr. P. M. Khodke
Principal

Preamble:

Research and academics are two sides of a coin. Hence, research activity is an important component in the curricula of all the programmes of the Institute. In fact, familiarity of the Institute is very often reflected by its quality of research output. It has been observed that technical institutes are not contributing in National research as per expectations, as mentioned in various technical reports. Keeping this concern in mind, GCEK has prepared a policy for fostering Excellence in Research.

Researchers of different departments of the Institute are looking at different aspects of Science and Technology to solve the challenges of Society. Researchers use innovative research techniques and modern tools, both to solve problems of the modern world and to understand the ancient world better.

In the Institute, research is being carried out in all engineering disciplines. Institute faculty members have been making a significant contribution in their respective field of research. However, it is felt that there is a need for more efforts by each and every faculty members in furtherance of research to make a niche at the National and International levels.

Purpose:

The GCEK- Research Policy underlines the best measures in the field of research at par with the research institutes of the world / Universities. It accentuates the priority areas, methods and measures of implementation and the evaluation of quality of research for the Institute. This research policy will serve as an excellent model for improving research standard in the Institutes. The implementation of the visionary GCEK Research policy will certainly help in enhancement of atmosphere for quality research in the long run. It will also help in carrying need based research and research based learning.

Government College of Engineering, Karad is committed for quality research as reflected in the wide range of its activities concerning academics and social responsibly. The Institute is strongly focused on regional need based research and is a leader in many research areas. The Institute is committed for up- lifting living standard of the people of the State and the Nation. The Institute understands the dilemma that has been posed by the struggle between fast paced developments and the need for a sustainable research atmosphere in the campus. Therefore, GCEK, wishes to set a platform for generating innovative ideas in the field of research for sustainable development. The Institute desires to act as a State leader in the field of research for serving the people

In a nutshell, the research policy aims to create a model of conducive quality research environment.

Objectives:

Our over-arching research objectives are to lead the International agenda across the Institute's programs of study and through interdisciplinary initiatives, and make significant contributions to society regionally, nationally and internationally.

The objectives are:

1. To encourage faculty to undertake projects in thrust areas in Science and Engineering funded by various national and international agencies.
2. To motivate and depute faculty for doctoral and post doctoral assignments at various national and international universities and organizations of repute.
3. To enhance the research awareness by organizing national and international conferences, workshops, seminars on research methodology, IPR, and Patents.
4. To provide a creative atmosphere supported by adequate facilities and resources in which research thrives among the faculty and students.
5. To explore new horizon of knowledge and ensure its practical implementation through collective efforts and quality research work.

R & D Activities:

1. Procurement of high end laboratory equipments and software for research.
2. Talks and Lectures by eminent researchers.
3. Collaboration and MOU with Industry and R & D Organization.
4. Organize and attend research conferences, Workshops, Symposia, etc
5. Funding research based UG/PG projects and ideas.

Research Policy:

Institute policy, to encourage its faculty members/ researchers to carryout quality research, is as under:

1. Institute shall have a Research & Development cell (R&D Cell), called Core Group, comprise of the following members
 1. Principal/ Director – Chairman
 2. Dean R& D – Secretary
 3. Members
 - a. Head of departments of all programs
 - b. Nominee from Industries (Domain specific)
 - c. Departmental research coordinators
2. Each department in the institute shall have department research committee with following members:
 - a) Head of Dept. – Chairman
 - b) PG Coordinator – Secretary
 - c) Two Senior faculty- Members
3. The core group set up by the Institute shall act as the Institute research cell and function for fostering research and facilitating copyrights, patent filing and commercialization.
4. Institute emphasis shall be on multi-disciplinary research.

5. Each department shall be developed as the model research centre for solving social problems using Engineering and Technology.
6. The department shall identify thrust areas of research to promote and make efforts to develop the institute as a National /International repute.
7. The Institute shall promote the faculties to submit proposals to different National and International funding agencies.
8. Institute shall encourage the international and national collaborations, especially funded by Government of India worldwide.
9. The Institute shall try to financially assist faculty, if funds are available with the Institute, especially to newly appointed teachers for carrying out their research projects, for a maximum period limited to two years or till they receive the financial grants from funding agency.
10. The institute shall provide seed money for the potential proposals. The proposal shall be submitted to R&D cell after satisfactory presentation to departmental research committee with details of submission to relevant funding agency
11. Seed money to initiate R&D project shall be distributed by the following procedure:
 - a) Submission of proposal/s to funding agency.
 - b) Application for seed money through the respective HOD.
 - c) Scrutiny by R&D cell on sanction of the submitted project.
 - d) Certain percentage of the sanctioned project cost, as decided from time to time, shall be given as seed money from the departmental R&D budget.
12. The departmental research facility may be extended to researchers of other colleges / researchers from outside at a reasonable charge decided by the Institute from time to time.
13. The department should publish the list of potential equipments available in the department on the institute's website for other department's interest as well as outside.
14. The grants shall be made available for procuring Test and measuring equipment, hardware etc.
15. The Institute shall reimburse the expenses limited to certain amount, to UG, PG and PhD research work to meet the contingency expenses to the students on production of original receipts for expenditure incurred on component procurement and consumables and paper publication fee in peer reviewed journals from the list published.
16. Every faculty members shall publish their researches in peer reviewed journals only.
17. Faculty members shall be eligible for TA/ DA for presentation of their research work/ delivering key note address in reputed International conferences abroad once in two years and for reputed National conference once a year.
18. The Principal Investigator shall be responsible to conduct research projects by streamlining the administrative and audit system.
19. Collaboration of Library facility shall be initiated by the institute as per the requirements of researchers for required research project.
20. Each departmental research coordinator has to present report of the department in Institute R& D Cell regarding research activities.
21. Department head shall submit annual report on research work by 15th April each year. Report shall include the research publications, projects completed/undertaken and papers presented, key note addresses delivered sessions chaired by each faculty/ researcher of

the department. The report shall then be presented by concerned Head in next BoM meeting.

22. For any issue related to R&D other than mentioned aforesaid, decision of the Principal (Chairman of the R&D Cell) will be final.
23. Institute shall make efforts to provide separate hostel exclusively for men and women for collaborative research scholars.