



**Gokaraju Rangaraju Institute of Engineering and Technology
Bachupally, Kukatpally Hyderabad-500090**

Code of Ethics

GRIET/PRIN/9A/G/21-22

19 June 2021

To Check Malpractices and Plagiarism in Research

The college is committed to produce and promote original research with highest quality, devoid of plagiarism of any sort while encouraging academic freedom and innovative thinking. Submission of plagiarized works abuse the resources of all affected journals, including the valuable time of editors, reviewers, and staff, and is unprofessional and unacceptable. The college inculcates its faculty and students to abide by the highest standards of integrity in their conduct of academic research and/or support to academic research activities so as to conform to the following code:

- 1) No form of plagiarism is allowed in the college. Plagiarism may be of various kinds such as claiming another's paper as one's own, copying or paraphrasing substantial parts of another's work without due acknowledgement and claiming credit for another's research and so on.
- 2) The college lays strong emphasis on the standard of research, original thought and expression which are ensured through multiple layers of review. The faculty and students are expected to follow appropriate guidelines for publication in various journals, including those recognized by the UGC.
- 3) Faculty and students must avoid any action that may result in a conflict of interest. When objectivity and effectiveness cannot be maintained, the activity should be avoided or discontinued.
- 4) Proper authorship representation must be maintained.
- 5) Any incidence of fabrication or misrepresentation shall be a serious breach of professional conduct, with potentially severe ethical and legal consequences.
- 6) Faculty/students attending/participating in any conference, permission must be sought from the HOD in writing, stating the purpose of the visit, the name and venue of the seminar/conference, and subject their work for a review by available anti- plagiarism software like Turnitin to a satisfactory limit. Currently it is 24% for MTech projects.

J. Praveen

**Dr J Praveen
(Principal, GRIET)**



**PRINCIPAL
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Bachupally, Kukatpally, Hyderabad-500 090.**

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GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

RESEARCH METHODOLOGY AND IPR

Course Code: GR20D5011

L/T/P/C:2/0/0/2

I Year I Semester

Course Objectives:

1. To familiarize students with the different aspects of research.
2. To provide an idea of good scientific writing and proper presentation skills.
3. To provide an understanding of philosophical questions behind scientific research.
4. To provide a brief background on the historical legacy of science.
5. To provide an insight of the nature of Intellectual Property and new developments in IPR.

Course Outcomes: At the end of this course, students will be able to

1. Understand research problem formulation.
2. Analyze research related information and follow research ethics
3. Understand that today's world is controlled by Computer, Information Technology, but tomorrow's world will be ruled by ideas, concepts, and creativity.
4. Understand that when IPR would take such an important place in the growth of individuals & nations, it is needless to emphasise the need for information about Intellectual Property Rights to be promoted among students in general & engineering.
5. Understand the nature of Intellectual Property and IPR in International scenarios.

Unit I

Meaning of research problem, Sources of research problem, Criteria Characteristics of a good research problem, Errors in selecting a research problem, Scope and objectives of research problem.

Unit II

Approaches of investigation of solutions for research problem, data collection, analysis, interpretation, Necessary instrumentations, Effective literature studies approaches, analysis Plagiarism, Research ethics,

Unit III

Effective technical writing, how to write report, Paper Developing a Research Proposal, Format of research proposal, a presentation and assessment by a review committee

Unit IV

Nature of Intellectual Property: Patents, Designs, Trade and Copyright. Process of Patenting and Development: technological research, innovation, patenting, development. International Scenario: International cooperation on Intellectual Property. Procedure for grants of patents, Patenting under PCT.

Unit V

Patent Rights: Scope of Patent Rights. Licensing and transfer of technology. Patent information and databases. Geographical Indications. New Developments in IPR: Administration of Patent System. New developments in IPR; IPR of Biological Systems, Computer Software etc.

Traditional knowledge Case Studies, IPR and IITs.

TEXT / REFERENCE BOOKS:

1. Stuart Melville and Wayne Goddard, "Research methodology: an introduction for science & engineering students"
2. Wayne Goddard and Stuart Melville, "Research Methodology: An Introduction"
3. RanjitKumar, 2 ndEdition , "Research Methodology: A Step by Step Guide for beginners"
4. Halbert, "Resisting Intellectual Property", Taylor & Francis Ltd ,2007.
5. Mayall , "Industrial Design", McGraw Hill,1992.
6. Niebel , "Product Design", McGraw Hill,1974.
7. Asimov , "Introduction to Design", Prentice Hall,1962.
8. Robert P. Merges, Peter S. Menell, Mark A. Lemley, " Intellectual Property in the New Technological Age",2016. T. Ramappa, "Intellectual Property Rights Under WTO", S. Chand,2008



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