

Nagarjuna College of Engineering and Technology

Mudugurki, Venkatagiri Kote, Post, Devanahalli, Bengaluru-562 110

Code of Ethics in Research

Adopted during the Ethical Research Committee Meeting held on 02-09-2016 at NCET

Introduction

Nagarjuna College of Engineering and Technology (NCET) has its own research ethics and provides broader guidelines for the responsible conduct of research and reporting/publications. It educates and monitors students/research scholars/faculty members for conducting research to ensure a high moral and ethical standards. Find below the important ethical principles practiced at NCET Campus:

Important Ethical Principles Practiced at NCET	
1. Honesty	2. Confidentiality
3. Objectivity	4. Responsible Publication
5. Integrity	6. Responsible Mentoring and Guidance
7. Carefulness	8. Respect for Colleagues
9. Openness	10. Social Responsibility
11. Transparency	12. Non-Discrimination and Gender Equality
13. Accountability	14. Competence
15. Respect Intellectual Property	16. Legality

National Ethical Guidelines has been issued by Indian Council of Medical Research (ICMR) for Biomedical and Health Research Involving Human Participants/animals etc. However, in the context of NCET being an Engineering and Technology institute, which is not offering any Biomedical or Biotechnology Courses, ICMR Guidelines are not applicable to NCET.

Hence, the scope and terms of reference of "Ethical Research Committee" of NCET is limited to Academic Research, Publications, Project Reports and Research Proposals to be submitted to Funding Agencies and/or Consultancy Projects, UG Projects, Masters' Thesis/Dissertation and PhD Thesis etc and Code of Conduct of faculty Members in their Doctoral/Post-Doctoral Research Works and Publications etc. The above principles of this Code of Ethics has been proposed and implemented in letter and spirit are with the moral determination of guiding students/researchers at NCET in such a way make them to adhere to ethical practices enriched with higher social values and mission of NCET.

This Code of Ethics is also aimed at prevention of misconducts, unethical practices in academics and research free from plagiarism or less than 25% of plagiarism and encourage in providing appropriate/adequate citations in Research works/Project Proposals/ Reports/Master's Thesis etc carried out by the students, PhD research scholars and/or faculty members at NCET.

Guiding Ethical Principles

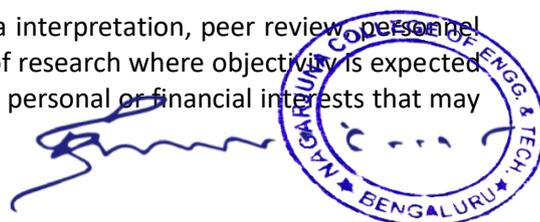
The following is a rough and general summary of some ethical principles adopted at NCET that various codes address*:

Honesty

Strive for honesty in all scientific communications. Honestly report data, results, methods and procedures, and publication status. Do not fabricate, falsify, or misrepresent data. Do not deceive colleagues, research sponsors, or the public.

Objectivity

Strive to avoid bias in experimental design, data analysis, data interpretation, peer review, personnel decisions, grant writing, expert testimony, and other aspects of research where objectivity is expected or required. Avoid or minimize bias or self-deception. Disclose personal or financial interests that may affect research.



Integrity

Keep your promises and agreements; act with sincerity; strive for consistency of thought and action.

Carefulness

Avoid careless errors and negligence; carefully and critically examine your own work and the work of your peers. Keep good records of research activities, such as data collection, research design, and correspondence with agencies or journals.

Openness

Share data, results, ideas, tools, resources. Be open to criticism and new ideas.

Transparency

Disclose methods, materials, assumptions, analyses, and other information needed to evaluate your research.

Accountability

Take responsibility for your part in research and be prepared to give an account (i.e. an explanation or justification) of what you did on a research project and why.

Intellectual Property

Honour patents, copyrights, and other forms of intellectual property. Do not use unpublished data, methods, or results without permission. Give proper acknowledgement or credit for all contributions to research. Never plagiarize.

Confidentiality

Protect confidential communications, such as papers or grants submitted for publication, personnel records, trade or military secrets, and patient records.

Responsible Publication

Publish in order to advance research and scholarship, not to advance just your own career. Avoid wasteful and duplicative publication.

Responsible Mentoring

Help to educate, mentor, and advise students. Promote their welfare and allow them to make their own decisions.

Respect for Colleagues

Respect your colleagues and treat them fairly.

Social Responsibility

Strive to promote social good and prevent or mitigate social harms through research, public education, and advocacy.

Non-Discrimination

Avoid discrimination against colleagues or students on the basis of sex, race, ethnicity, or other factors not related to scientific competence and integrity.

Competence

Maintain and improve your own professional competence and expertise through lifelong education and learning; take steps to promote competence in science as a whole.

Legality

Know and obey relevant laws and institutional and governmental policies.

Animal Care

Show proper respect and care for animals when using them in research. Do not conduct unnecessary or poorly designed animal experiments.

Human Subjects protection

When conducting research on human subjects, minimize harms and risks and maximize benefits; respect human dignity, privacy, and autonomy; take special precautions with vulnerable populations; and strive to distribute the benefits and burdens of research fairly.

** Adapted from Shamoo A and Resnik D. 2015. Responsible Conduct of Research, 3rd ed. (New York: Oxford University Press).*

