

Professional Ethics Guide for the College of Engineering / University of Warith Al-Anbiya



College of Engineering

Biomedical - Civil - Air Conditioning and Refrigeration - Oil and Gas - Aircraft

07734896226

07801003060

07712446006

AL-ESMA Building



UOWA.EDU.IQ/ENG

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Committee for the Preparation of a Professional Ethics Manual

- 1- Assist.Prof Dr Hassan Taleb Hashim / Chairman of the Committee
- 2- Assist.Prof Dr Mohammed Hassan Abboud / Member of the Committee
- 3- Assist.Prof Dr Ahmed Saadi Mohammed / Member of the Committee
- 4- Assist.Prof Dr Qasim Ali Hussein / member of the committee
- 5- Lec.Dr. Daa Khafif Khashan / Member of the Committee
- 6- Lec.Dr. Osama Abdul Bari Khudair / member of the committee
- 7- Engineer Zahraa Radi / Member of the Committee

Approval of the Honourable Dean of the
College of Engineering

أ.م.د. حسين هادي حسين
عميد كلية الهندسة

This guide is designed to promote a commitment to ethical and professional values among all members of the college, whether students, faculty, or staff. This guide aims to provide clear guidelines on expected behaviours inside and outside the college, to ensure the highest quality of engineering education and scientific and research skills.

❖ **The objectives of the Ethics Manual are:**

- Promoting ethical values in all aspects of education and scientific and research practice .
- Ensuring integrity and transparency in academic and research activities.
- Encouraging commitment to social responsibility towards society.
- Protect the rights of engineers, students and faculty members.
- Providing an educational and practical environment that respects everyone.

The College of Engineering Ethics relates to the values and principles that engineers should uphold during their studies and in their professional lives. It includes a set of standards that aim to ensure that engineering is practised in a responsible and safe manner that has a positive impact on society and the environment. Some of the key aspects of engineering ethics are:

1- Honesty and integrity:

Engineers must commit to honesty in academic and professional work, including avoiding plagiarism and falsification in research and reports.

2- Fairness and equality:

-Mutual respect: Engineers should treat their colleagues, teams and communities with respect, taking into account cultural and social diversity.

- Fairness in treatment: All individuals should be treated fairly without discrimination or prejudice based on race, gender, religion or

nationality. It is important that engineers treat all individuals fairly and equally, regardless of their cultural, social or economic backgrounds. All should be given opportunities for employment and participation based on the principle of equal opportunity.

3- Respect for safety and security:

Engineers must design and implement engineering projects with the safety of people and society in mind, and ensure that engineering products or projects do not pose a threat to the environment or people's health.

4- Environmental sustainability:

Engineers must work to design engineering solutions that preserve the environment and minimise the negative impacts of technology on nature, thus achieving sustainability within green education.

5- Professional responsibility :

Engineers must take responsibility for their decisions and designs, taking into account the laws and regulations applicable to their fields.

6- Confidentiality and respect for intellectual property :

Engineers must respect intellectual property rights and work confidentially on projects involving sensitive information.

7- Continuous Professional Development :

Engineers should endeavour to continually develop their skills and knowledge through continuous learning and keeping abreast of the latest developments in their fields.

These principles help ensure that engineering practices are in line with ethical standards that support the well-being of society, maintain security and safety, and create a sustainable environment that attracts investment in thought, people, labour and money.

Regarding engineering departments

Civil Engineering Department

One of the professional ethics of the civil engineer is credibility in academic dealings as well as financial dealings regarding work sites as well as administrative sites, as well as commitment to the principle of equality in work and treating all workers with respect as well as observing and adhering to occupational safety rules with all workers and knowing how to deal with engineering facilities, managing the design, development, and construction of construction projects safely and within the specified schedule, carrying out technical studies and feasibility studies, preparing plans that adhere to the required technical specifications, conducting field investigations at work sites and analysing data.

Department of Biomedical Engineering

One of the ethics of the profession of the biomedical engineer is credibility, respect for occupational safety rules, knowledge of dealing with medical devices, respect for everyone, adopting the principle of justice and equality with everyone, as well as attention to the administrative aspect, as well as acquiring the basic skills that qualify him to prepare the design requirements of modern hospitals and health centres and address doctors to cover the basic requirements and needs in the precise medical specialty. Setting technical standards for the accreditation of companies specialised in importing medical devices that deal with the Ministry of Health according to modern scientific principles that take into account the medical and engineering fields, as well as adopting standards of transparency in working in universities and quality control bodies for medical engineering measurements and working in consulting offices in his field of specialisation.

Refrigeration and Air Conditioning Engineering Department

The professional ethics of a refrigeration and air conditioning engineer include honesty and respect for occupational safety standards, technical skills in the use of maintenance and inspection tools, good understanding of refrigeration and air conditioning systems and their components, ability to solve technical issues, communication skills with clients and co-workers, familiarity with software used in design and analysis, understanding of occupational safety and health standards, time management skills and working under pressure.

Department of Oil and Gas Engineering

Preserving the environment: The petroleum engineer must adhere to practices that preserve the environment and minimise the negative impacts of oil extraction on the ecosystem. Contribute to sustainable development. The engineer must work to improve oil extraction techniques in a way that promotes environmental, economic and social sustainability. Responsibility towards society: The petroleum engineer must have a high sense of responsibility towards local communities and work to avoid any potential damage to them due to oil projects. Confidentiality and information protection: The engineer must maintain the confidentiality of project-related information and technical data of the company or clients, and not leak it.

Aircraft Engineering Department

As an aerospace engineer, maintaining high ethical standards is critical given the nature of the work involved. Some of the key ethical considerations for aerospace engineers include the following:

Safety: Prioritising the safety of passengers and crew by adhering to strict design, testing and maintenance protocols to ensure aircraft reliability and airworthiness, **Compliance:** Following industry regulations and standards set by aviation authorities to ensure aircraft designs and operations meet legal requirements and safety guidelines, **Integrity:** Upholding honesty and integrity in all professional dealings, including accurate data reporting, transparent communication, and ethical decision-making, **Environmental Responsibility:** Considering the environmental impact of aircraft operations and seeking to minimise emissions, noise pollution and other environmental impacts in design and manufacturing processes. Adherence to these ethical principles not only maintains the reputation of the aerospace engineering profession, but also contributes to public safety and the sustainability of the aviation industry.