

Engineering Profession Ethics

Before we studying

"Ethics is knowing the difference between what you have a right to do and what is right to do." Potter Stewart

"Ethics are more important than laws." Wynton Marsalis

"Educating the mind without educating the heart is no education at all." Aristotle

"Education without values, as useful as it is, seems rather to make man a more clever devil." C.S. Lewis

Ethics:- a set of moral values and principles which form the standards of the code of conduct of individuals, organizations and professions. It is the principles of good and bad behavior governing what is right and wrong conduct.



Ethics

Refers to well based standards of right and wrong that prescribe what humans ought to do, usually in terms of rights, obligations, benefits to society, fairness, or specific virtues.

Ethics (noun)

The definition of ethic as noun

1. The study of moral standards and how they affect conduct (singular)
2. A system of moral principles governing the appropriate conduct for an individual or group (plural)

Profession

The term professional refers to anyone who earns their living from performing an activity that requires a certain level of education, skill, or training. There is typically a required standard of competency, knowledge or education that must be demonstrated (often in the form of an exam or credential), as well as adhering to codes of conduct and ethical standards.

Standards of Proper Conduct

1. Professional Ethics: the set of standards adopted by professionals to govern their particular profession, known as the 'code of ethics' for that profession*
2. Personal Values (Ethics): the set of one's own ethical commitments, usually developed in early home, religious, or social training
3. Common Morality: the set of moral ideals shared by most members of a culture or Society

Engineering Ethics

Engineering Ethics is based on "Preventative Ethics" which is based on two dimensions:

- 1- Think ahead and anticipate possible consequences of professional actions
- 2- Think effectively about consequences and decide what is the 'ethically' correct manner to handle the situation

Concepts of Engineering Ethics

1. Ethical considerations are an integral part of making engineering decisions.
2. The professional obligations of engineers go beyond fulfilling a contract with a client or customer.
3. Codes of ethics can provide guidance in the decision-making process. Ethical obligations do not stop at any country's border; they are global.

Engineering Codes of Ethics

- Accreditation Board for Engineering and Technology (ABET)
- National Society of Professional Engineers (NSPE)
- Institute of Electrical and Electronic Engineers (IEEE)
- American Society of Mechanical Engineers (ASME)
- American Society of Civil Engineers (ASCE)

You can ask yourself (when making any decisions)

