



# Professional Ethics & Human Values

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## Variety of Moral Issues

Engineers face a variety of moral issues, such as:

**Safety:** Ensuring the safety of the public and users of engineering products.

**Environmental Impact:** Minimizing harm to the environment.

**Honesty and Integrity:** Avoiding deceitful practices, plagiarism, and ensuring truthful representation of data and results.

**Confidentiality:** Respecting the confidentiality of sensitive information.

**Conflict of Interest:** Avoiding situations where personal interests could compromise professional judgment.

**Fairness:** Ensuring fairness in treatment, opportunities, and resource distribution.



# VARIETY OF MORAL ISSUES

## Micro-ethics

Deals about some typical and everyday problems which play an important role in the field of engineering and in the profession of an engineer.

## Macro-ethics

Deals with all the societal problems which are unknown and suddenly burst out on a regional or national level.



# VARIETY OF MORAL ISSUES

**Micro-ethics:** These are daily ethical challenges faced by engineers in their work. For instance:

- Imagine an engineer discovers a bridge that is marginally safe after a recent structure collapse. Their superior advises them to wait for next year's budget sessions for repair funding. What should the engineer do?<sup>1</sup>.
- Another scenario: An engineer observes a colleague copying confidential information without authorization.
- Should they intervene immediately, risking their friend's job, or report it to management?<sup>1</sup>.



# VARIETY OF MORAL ISSUES

**Macro-ethics:** These involve broader social problems that may unexpectedly arise at regional or national levels. Consider:

- An engineer loses a project prototype due to a mishap just before submission.
- Is it morally acceptable to outsource the prototype to reduce job insecurity?<sup>1</sup>.



**THANK YOU**