



19GET201-Professional Ethics and Human Values

Unit-I- ENGINEERING ETHICS

Two Marks

- **What is the primary focus of engineering ethics?**

- *Answer:* The primary focus of engineering ethics is to ensure that engineers conduct their work in a manner that upholds safety, integrity, public welfare, and adherence to professional standards.

- **Name one key moral issue in engineering related to public safety.**

- *Answer:* One key moral issue is ensuring that engineering designs and projects do not pose undue risks to public safety and adhere to safety standards.

- **What is a moral dilemma in the context of engineering ethics?**

- *Answer:* A moral dilemma in engineering ethics is a situation where an engineer must choose between conflicting ethical principles, such as choosing between cost-saving measures and ensuring safety.

- **How does moral autonomy apply to engineers?**

- *Answer:* Moral autonomy allows engineers to make ethical decisions based on their own moral reasoning and principles, rather than solely relying on external pressures or directives.

- **What are the two main stages in Kohlberg's pre-conventional level of moral development?**

- *Answer:* The two main stages are: 1) Obedience and Punishment Orientation, and 2) Individualism and Exchange.

- **How does Gilligan's theory differ from Kohlberg's theory of moral development?**

- *Answer:* Gilligan's theory focuses on the ethics of care and relational values, whereas Kohlberg's theory emphasizes justice and abstract moral reasoning.

- **What is one area of consensus in engineering ethics?**

- *Answer:* One area of consensus is the commitment to public safety and welfare, ensuring that engineering practices prioritize the health and safety of the public.

- **Give an example of a controversy in engineering ethics related to emerging technologies.**

- *Answer:* A controversy might involve the ethical implications of artificial intelligence, such as concerns over privacy, bias, and the potential for misuse.

- **What is the use of ethical theories in guiding decision-making in engineering?**

- *Answer:* Ethical theories provide structured frameworks for evaluating and making decisions in complex moral situations, helping engineers choose options that align with ethical principles.

- **What role do professional codes of ethics play in establishing engineering standards?**

- *Answer:* Professional codes of ethics establish fundamental principles and guidelines for acceptable behavior, helping engineers adhere to ethical standards and making ethical decision-making consistent across the profession.