

# ENG231 Engineering Ethics

**Level:** 2

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY REGULAR SEMESTER

## **Synopsis:**

Nowadays, technology has a pervasive and profound impact on everyday life, where engineers play a crucial role in its development. It is therefore extremely important that engineers understand the importance of safety, health, and welfare of the public, when developing this technology. They must be morally committed and equipped to tackle any ethical issues they may encounter. This course aims at training the student to reach such a status through discussions and typical case studies where real examples are thoroughly discussed.

## **Topics:**

- Ethics and Professionalism
- Moral Choices and Ethical Dilemmas
- Codes of Ethics
- Moral Frameworks
- Ethics as Social Experimentation
- Safety and Risk
- Assessing and Reducing Risk
- Workplace Responsibilities and Rights
- Truth and Truthfulness
- Computer Ethics
- Environmental Ethics

## **Textbooks:**

ENG231 Study Guide

ISBN-13: SG-1135

ETHICS IN ENGINEERING 4th Martin McGraw-Hill

ISBN-13: 9781307523669

**Learning Outcome:**

- Illustrate the ethical issues and dilemmas faced by engineers.
- Discuss the ethical issues in a scenario / statement / policy.
- Compare various policies / acts/ engineering work based on various ethical theories.
- Debate on the ethical issues in a given engineering situation.
- Give reasons / comments on ethical issues in engineering.
- Examine and support an ethical stance.
- Determine the ways to deal with ethical issues.
- Present the policies / solutions to address ethical issues in engineering.

**Assessment Strategies - Regular Semester (Evening Class):**

<b>Components</b>	<b>Description</b>	<b>Weightage Allocation (%)</b>
Overall Continuous Assessment	PRE-CLASS QUIZ 1	2
	PRE-CLASS QUIZ 2	2
	PRE-CLASS QUIZ 3	2
	CLASS TEST 1	12
	CLASS TEST 2	12
Overall Examinable Components	Written Exam	70
<b>Total</b>		<b>100</b>

\*The information listed is subject to review and change.