

ETHICAL & LEGAL DIMENSIONS FOR ENGINEERS (GR-301)

Pre-requisite: None

Credit Hours: 02

Contact Hours: 32

COURSE OBJECTIVES

This course introduces contemporary and controversial ethical issues facing the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society.

S. No.	CLO/PLOS MAPPING	DOMAIN	PLO
1	Describe ethical and legal decision-making frame work, Social Responsibility, and International Ethics.	C2	08
2	Demonstrate ethical and legal decision-making, social responsibility, and moral obligations as an Engineer	P4	08
3	Express Ethical behavior as an Engineer	A3	08

COURSE CONTENTS

An Overview of Engineering Ethics: Ethics Defined, Social Responsibility, and Ethics, The Development of Ethics, Why study Ethics? Framework for Studying Ethics.

Ethical issues in Engineering: Foundation of Ethical Conflict, Classifications of Ethical, Issues, Ethical Issues Related to Participants and Functional Areas of Engineering, Recognizing an Ethical Issue.

Applying Moral Philosophies to Engineering Ethics: Moral Philosophy Defined, Moral Philosophy Perspectives

Social Responsibility: The Economic Dimension, The legal Dimension, The Ethical Dimension, the Philanthropic Dimension

An Ethical Decision-Making Framework: Ethical Issue Intensity, Individual Factors: Stages of Cognitive Moral Development, Corporate Culture, Significant others, Opportunity, Engineering Ethics Evaluations and Intentions, Using the Ethical Decision-Making Framework to Improve Ethical Decisions

How the Organization Influences Ethical Decision Making: Organizational Structure and Engineering Ethics, the role of Corporate Culture in Ethical Decision-Making, Group Dimensions of Organizational Structure and Culture, Implications of Organizational Relationships for Ethical Decisions.

The Role of Opportunity and Conflict: Opportunity, Conflict.

Development of an Effective Ethics Programmed: An Effective Ethical Compliance, Programmed, Codes of Ethics and Compliance Standards. High-Level Manager's Responsibility

for Ethical Compliance Programmed and the Delegation of Authority, Effective Communication of Ethical Standards. The Influence of Personal Values in Engineering Ethics Programmers, the Ethical Compliance Audit.