



Course Information

Course Code & Name	GE302 Professional Ethics for Engineers Total Credit Hours: 2 (Theory Hours: 2 Tutorial: 0)
Prerequisite/s	Nil

Course Description

The course examines ethical theories, moral norms and case studies to provide an overview of the ethical use of technology and associated responsibilities of engineers towards society, environment, clients, employers and coworkers. Ethical problem-solving techniques are elaborated with examples. Concepts of whistle blowing, intellectual copyrights, plagiarism, conflict of interests, safety, occupational hazards and cost-benefit risk are explored in the light of engineering codes of ethics and legal aspects of ethical and professional misconduct.

Textbook

Title:	Engineering Ethics		
Author(s):	Charles B. Fleddermann		
Publisher:	Pearson	Year and Edition:	2012, 4 th Edition

Course Contents

Topics to be Covered

Introduction: Background Ideas
Why Study Engineering Ethics?, Engineering is Managing the Unknown, Personal vs. Professional Ethics

The Origins of Ethical Thought
Ethics and the Law, Ethics Problems Are Like Design Problems, Case Studies

Professionalism and Code of Ethics
Is Engineering a Profession?, Code of Ethics

Understanding Ethical Problems
A brief History of Ethical Thought, Ethical Theories, Non-Western Ethical Thinking

Ethical Problem Solving Techniques
Line Drawing, Flow Charting, Conflict of Interest, Analysis of Issues in Ethical Problems

Risk, Safety and Accidents
Safety and Risk, Accidents

The Rights and Responsibilities of Engineers
Professional Responsibilities

Professional Rights
Whistle Blowing, Ethical Issues in Engineering Practices

Academic Coordinator

Official Stamp