



# **SNS COLLEGE OF TECHNOLOGY**

**(An Autonomous Institution)**

**COIMBATORE-35**

**Accredited by NBA-AICTE and Accredited by NAAC – UGC with A+ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai**



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

**COURSE NAME: 16GE301 Professional Ethics**

**III YEAR / V SEMESTER**

**Unit 1 – Engineering Ethics**

**Topic 1: Sense of Engineering Ethics**





# What We'll Discuss

## TOPIC OUTLINE



Engineering Ethics

Ethical Issues

Morality

Sense of Engineering Ethics



# ENGINEERING ETHICS



- The study of moral issues and decisions confronting individuals and organizations involved in engineering
- The study of related questions about moral ideals, character, policies and relationships of people and organizations involved in technological activity.
- {\* Confronting – Challenging  
\* ideals - Principles}



# ETHICAL ISSUES FACED BY ENGINEERS



- Bribery and Fraud
- Public Safety
- Environmental Protection
- Conflicts
- Moral Dilemmas

## Seven Dangers to Human Virtue

1. Wealth without work
2. Pleasure without conscience
3. Knowledge without character
4. Business without ethics
5. Science without humanity
6. Religion without sacrifice
7. Politics without principle





# MORALITY



Morality is concerned with principles and practices of morals such as:

- What ought or ought not to be done in a given situation?
- What is right or wrong about the handling of a situation?
- What is good or bad about the people, policies, and ideals involved?





# MORALITY PROBLEMS



- Lack of vision
- Incompetence among engineers
- Lack of time or lack of proper materials
- A silo mentality
- safety engineers somewhere down the line to catch potential problems.
- Improper use or disposal of the product
- Dishonesty
- Inattention



# APPROACHES OF MORAL ISSUES



There are conventionally two approaches in the study of ethics:

- **Micro-ethics** which deals with decisions and problems of individuals, professionals, and companies.
- **Macro-ethics** which deals with the societal problems on a regional/national level. For example, global issues, collective responsibilities of groups such as professional societies and consumer groups.



# SENSES OF ENGINEERING ETHICS







# SENSES OF ENGINEERING ETHICS



## TRAINING IN PREVENTIVE ETHICS

- Stimulating the moral imagination
- Recognizing ethical issues
- Developing analytical skills
- Eliciting a sense of responsibility
- Tolerating disagreement and ambiguity



# SENSES OF ENGINEERING ETHICS



## IMPEDIMENTS TO RESPONSIBILITY

- Self-interest.
- Fear.
- Self-deception.
- Ignorance.
- Egocentric tendencies.
- Microscopic vision.
- Groupthink.



# SENSES OF ENGINEERING ETHICS



Practical skills that will help produce autonomous thought about moral issues.



- ❑ Moral awareness
- ❑ Cogent moral reasoning
- ❑ Moral coherence
- ❑ Moral imagination
- ❑ Moral communication
- ❑ Moral reasonableness
- ❑ Respect for persons
- ❑ Tolerance of diversity
- ❑ Integrity



# SENSES OF ENGINEERING ETHICS



- Ethics is an activity and area of inquiry. It is the activity of understanding moral values, resolving moral issues and the area of study resulting from that activity.
- When we speak of ethical problems, issues and controversies, we mean to distinguish them from non moral problems.
- Ethics is used to refer to the particular set of beliefs, attitudes and habits that a person or group displays concerning moralities.
- Ethics and its grammatical variants can be used as synonyms for “morally correct”.



**RECALL TIME**

**ASSESSMENT  
TIME**





# THANK YOU