

Values & Ethics in profession

Code: HU 801

Credits: 3

Science, Technology and Engineering as Knowledge and as Social and Professional Activities

Effects of Technological Growth

Rapid Technological growth and depletion of resources. Reports of the Club of Rome. Limits to growth; sustainable development. Energy Crisis; Renewable Energy Resources.

Environmental degradation and pollution. Eco-friendly Technologies. Environmental Regulations.

Environmental Ethics. Appropriate Technology Movement of Schumacher: later developments.

Technology and developing nations. Problems of Technology transfer. Technology

assessment/ impact analysis; Industrial hazards and safety, safety regulations safety

engineering. Politics and technology, authorization versus democratic control of technology;

Human Operator in Engineering projects and industries. Problems of man machine interaction.

Impact of assembly line and automation. Human centred Technology

Ethics of Profession

Engineering profession: Ethical issues in engineering practice. Conflicts between business

demands and professional ideals. Social and ethical Responsibilities of Technologists. Codes of

professional ethics. Whistle blowing and beyond. Case studies.

Profession and Human Values

Value Crisis in contemporary society. Nature of values: Value Spectrum of a 'good' life

Psychological values: Integrated personality; mental health. Societal values: The modern search

for a 'good' society, justice, democracy, secularism, rule of law; values in Indian Constitution.

Aesthetic values: Perception and enjoyment of beauty, simplicity, clarity

Moral and ethical values: Nature of moral judgments; canons of ethics; Ethics of virtue; ethics of

duty; ethics of responsibility. Work ethics, professional ethics.