Values and Ethics of Profession
Code: HU 501
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 of 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

Human Operator in Engineering projects and industries. Problems of man machine interaction. Impact of assembly line and automation. Human centered 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