

PROFESSIONAL ETHICS

(Common to all branches during I B.Tech., II Semester)

Course Code(s): CE2T2, ME2T2, CS2T2, IT2T2, AE2T2, EE2T2, EC2T2

Credits: 3

Lecture: 3 periods/week

Internal assessment: 30 marks

Tutorial :-

Semester end examination: 70 marks

Prerequisites: Nil

COURSE Objectives:-

1. To inculcate the sense of social responsibility.
2. To develop a firm ethical base
3. To make the students realize the significance of ethics in professional environment.

Course outcomes:-

- CO1) Ethical, social and environmental awareness
- CO2) Engineer's rights and responsibilities act in morally desirable ways, towards moral commitment and responsible conduct
- CO3) Integrating academic learning with experimental learning in a profession

Syllabus:-**Unit I**

Profession ---- Definition
Three types of ethics.
Engineering ethics
Rights and responsibilities of an engineer.

Unit II

Evolution of engineering ethics
Code of ethics
Kohlberg's theory
Gilligan's theory

Unit III

Engineering as social experimentation
Engineer's social responsibility

Unit IV

Computer ethics
Ethical hacking
Privacy

Unit V

Environmental ethics.
Livable environment
Technology assessment.

Reference books: ----

1. Ethics in engineering: Mike W.Martin Roland, Mac Grow Hill.Schinzinger
2. Engineerinethics ---- M.Govindarajan, S.Natarajan&V.S.Senthil Kumar. Eastern economy Edn.PHI
3. Engineering ethics-- Harris pitch and Rabbins, cengage.
4. Caroline whit back---Ethics in engineering practice and research---- Cambridge.

E-learning resources:

<http://nptel.ac.in/courses.php>

<http://jntuk-coeerd.in/>