

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

Semester end examination: 70 marks

COURSE Objectives:-

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

Course outcomes:-

- Improved knowledge of ethics
- High sense of responsibility
- Environmental awareness
- Professional outlook
- Developing a broad culture.

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: ----

Ethics in engineering: Mike W.Martin Roland, Mac Grow Hill.Schinzinger

Engineerinethics-----M.Govindarajan, S.Natarajan&V.S.Senthil Kumar.
Eastern economy Edn.PHI

Engineering ethics---Harris pitch and Rabbins, cengage.

Caroline whit back---Ethics in engineering practice and research-----Cambridge.

e-learning resources:

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

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