

**1/4 B.Tech. SECOND SEMESTER  
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**

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**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:**

At the end of course the student will have:

1. Improved knowledge of ethics
2. High sense of responsibility
3. Environmental awareness
4. Professional outlook
5. Development of a broad culture.

**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.

## Learning Resources

### Reference Books:

1. Ethics in engineering: Mike W.Martin Roland, Mac Grow Hill.Schinzinger
2. Engineering ethics-----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.

### Web Resources:

1. <http://nptel.ac.in/courses.php>
2. <http://jntuk-coeerd.in/>