

## 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****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.

**Outcomes:**

Students will be able to

- Become Ethical, social and environmental awareness
- Got Engineering's rights and responsibilities act in morally definable ways towards moral commitment and responsible conduct
- 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. Engineering Ethics, M. Govindarajan, S. Natarajan & V.S.Senthil Kumar. Eastern economy Edn.PHI
3. Engineering Ethics, Harris pitch and Rabbins, cengage.
4. Ethics in Engineering Practice and Research, Cambridge Caroline whit back,.

**e-Learning Resources:**

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