

**III B.Tech – II Semester**  
**(17HS606) PROFESSIONAL ETHICS AND HUMAN VALUES**

Int. Marks	Ext. Marks	Total Marks	L	T	P	C
			2	-	-	-

**Pre-Requisites: None**

**Course Objectives:**

- To give basic insights and inputs to the student to inculcate Human values to grow as a responsible human beings with proper personality.
- Professional Ethics instills the student to maintain ethical conduct and discharge their professional duties.

**UNIT-I: Human Values:**

Morals, Values and Ethics – Integrity –Trustworthiness - Work Ethics – Service Learning – Civic Virtue – Respect for others – Living Peacefully – Caring – Sharing – Honesty –Courage  
– Value Time – Co-operation – Commitment – Empathy – Self-confidence – Spirituality- Character.

**UNIT-II: Principles for Harmony:**

Truthfulness – Customs and Traditions -Value Education – Human Dignity – Human Rights – Fundamental Duties - Aspirations and Harmony (I, We & Nature) – Gender Bias - Emotional Intelligence – Salovey – Mayer Model – Emotional Competencies – Conscientiousness.

**UNIT-III: Engineering Ethics and Social Experimentation:**

History of Ethics - Need of Engineering Ethics - Senses of Engineering Ethics- Profession and Professionalism — Self Interest - Moral Autonomy – Utilitarianism – Virtue Theory - Uses of Ethical Theories - Deontology- Types of Inquiry –Kohlberg’s Theory - Gilligan’s Argument – Heinz’s Dilemma - Comparison with Standard Experiments — Learning from the Past – Engineers as Managers – Consultants and Leaders – Balanced Outlook on Law - Role of Codes – Codes and Experimental Nature of Engineering.

**UNIT-IV: Engineers’ Responsibilities towards Safety and Risk:**

Concept of Safety - Safety and Risk – Types of Risks – Voluntary v/s Involuntary Risk – Consequences - Risk Assessment – Accountability – Liability - Reversible Effects - Threshold Levels of Risk - Delayed v/immediate Risk - Safety and the Engineer – Designing for Safety – Risk-Benefit Analysis-Accidents.

**UNIT-V: Engineers’ Duties and Rights:**

Concept of Duty - Professional Duties – Collegiality - Techniques for Achieving Collegiality – Senses of Loyalty - Consensus and Controversy - Professional and Individual Rights – Confidential and Proprietary Information - Conflict of Interest-Ethical egoism - Collective Bargaining – Confidentiality - Gifts and Bribes - Problem solving- Occupational Crimes- Industrial Espionage- Price Fixing-Whistle Blowing.

**UNIT-VI: Global Issues:**

Globalization and MNCs –Cross Culture Issues - Business Ethics – Media Ethics - Environmental Ethics – Endangering Lives - Bio Ethics - Computer Ethics - War Ethics- Research Ethics -Intellectual Property Rights.

**Course Outcomes:**

After successful completion of the course, the students can be able to:

S. No	Course Outcome	BTL
1.	Understand professional ethics, moral and social issues, code of ethics etc.	L1
2.	Know about professional rights and responsibilities of an engineer.	L2
3.	Analyze the safety and risk benefits in an industry.	L3
4.	Acquire knowledge about various roles	L2
5.	Apply ethical principles to resolve situations in professional lives	L2
6.	Aware of various case studies understanding of applying professional ethics in engineering and technology	L3

**Correlation of COs with POs & PSOs:**

CO	PO 1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO 1	-	-	-	-	-	2	2	3	2	2	-	3	-	-
CO 2	-	-	-	-	-	2	2	3	2	2	-	1	-	-
CO 3	-	2	-	-	-	2	3	3	2	1	-	1	-	2
CO 4	-	-	-	-	-	2	3	-	2	-	-	-	-	-
CO 5	-	-	-	-	-	3	1	3	2	2	2	1	-	-
CO 6	1	-	-	1	-	3	2	3	3	3	3	2	1	-

**Reference Books:**

1. Professional Ethics by R. Subramaniam – Oxford Publications, New Delhi.
2. Ethics in Engineering by Mike W. Martin and Roland Schinzinger - Tata McGraw-Hill –2003.
3. Professional Ethics and Morals by Prof. A.R.Aryasri, Dharanikota Suyodhana – Maruthi Publications.
4. Engineering Ethics by Harris, Pritchard and Rabins, Cengage Learning, New Delhi.
5. Human Values & Professional Ethics by S. B. Gogate, Vikas Publishing House Pvt. Ltd., Noida.
6. Engineering Ethics & Human Values by M. Govindarajan, S. Natarajan and V.S. Senthil Kumar-PHI Learning Pvt. Ltd – 2009.
7. Professional Ethics and Human Values by A. Alavudeen, R.Kalil Rahman and M.Jaya kumaran – University Science Press.
8. Professional Ethics and Human Values by Prof.D.R.Kiran-Tata McGraw-Hill - 2013
9. Human Values And Professional Ethics by Jayshree Suresh and B. S. Raghavan, S.Chand Publications