

II Year II Semester

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PROFESSIONAL ETHICS AND HUMAN VALUES

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/s 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.

Related Cases shall be dealt where ever necessary.

Outcome:

*It gives a comprehensive understanding of a variety issues that are encountered by every professional in discharging professional duties.

*It provides the student the sensitivity and global outlook in the contemporary world to fulfill the professional obligations effectively.

References:

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, DharanikotaSuyodhana - 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.SenthilKumar- PHI Learning Pvt. Ltd - 2009.
7. Professional Ethics and Human Values by A. Alavudeen, R.Kalil Rahman and M. Jayakumaran -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 Jayashree Suresh and B. S. Raghavan, S.Chand Publications