**Saveetha School of Engineering**



**Saveetha INSTITUTE OF MEDICAL AND TECHNICAL SCIENCES**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**Course File 2021 – 2022**

**Faculty Name : Dr. K. Nimel Ross**

**DESIGNATION** : Associate Professor

**Subject code :** UBA2853

**subject namE :** Professional Ethics and Legal Practices for Lawful Management

**yEAR :** 2021 - 2022

SAVEETHA SCHOOL OF ENGINEERINGSAVEETHA INSTITUTE OF MEDICAL AND TECHNICAL SCIENCESTHANDALAM, CHENNAI 602 105.

**Course File Content**

**Faculty Name : Dr. K. Nimel Ross**

**Subject Code & Name : UBA2853 & Professional Ethics and Legal Practices for lawful management**

**Academic Year : January - March 2022**

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**HOD**

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| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **UBA2853** | **PROFESSIONAL ETHICS AND LEGAL PRACTICES FOR LAWFUL MANAGEMENT** | **4** | **0** | **0** | **4** | | | **Prerequisite** | NIL | | | | | | | **Course Objectives** | 1. To help students to regulate their behavior in a professional environment as employees. 2. To make students aware of the impact of taking unethical engineering decisions 3. To encourage a serious commitment to professionalism and socially responsible   behavior.   1. To acquire adequate knowledge of the basic concepts of laws regarding Intellectual Property rights. 2. To develop good ideas of the Legal and Ethical Aspects of their profession | | | | | | |  |  | | | | | | | **UNIT I** | **PROFESSIONAL ETHICS** | | | | |  | | Definition of Ethics, Professional Ethics, Business Ethics, Corporate Ethics, Engineering Ethics, Personal Ethics, Professional Responsibility, Conflict of Interest, Whistleblowing, protected disclosures. Moral dilemmas – Moral Autonomy (Kohlberg’s & Gilligan’s theories) – Professional Ideals and Virtues – Ethical Theories (Utilitarianism, Duty Ethics & Rights Ethics) and their uses – Ethical Problem-solving Techniques. | | | | | | | | **UNIT II** | **CASE STUDIES-VARIETY OF MORAL ISSUES IN PROFESSION** | | | | |  | | Present the case studies on Chernobyl nuclear disaster, Fukushima reactor meltdown, Challenger blowup, Ford Pinto design, Highway safety, Kingfisher Airlines financial misappropriation- Titanic disaster, SLV-3- the Indian Space Shuttle (Wings of Fire) - Three-mile Island-DC-Jumbo Jet. | | | | | | | | **UNIT III** | **PROFESSIONAL BODIES** | | | | |  | | IEEE, IETE, IE, ASME, ASCE, ABET, NSPE, ISTE, IIChE Etc-Codes for the ethical use of computers, student code of ethics in university, and corporate codes of ethics. | | | | | | | | **UNIT IV** | **CONSTITUTIONAL LAW** | | | | |  | | Constitutional Law covering the Preamble; Fundamental Rights, Judicial Activism  including Equality and Social Justice, Life and Personal Liberty and Secularism and Religious freedoms, Fundamental Duties; Emergency provisions. | | | | | | | | **UNIT V** | **INTELLECTUAL PROPERTY RIGHTS** | | | | |  | | Intelligent Property Rights (IPR): Introduction, meaning of intellectual property, main forms of IPR, Copyright, Trademarks, Patents and Designs, Secrets. Law relating to Copyright in India; Law relating to Trademarks under Trademark Act, 1999 - Law relating to Patents under Patents Act, 1970, Process of obtaining patent – application, examination, opposition and sealing of patents, Rights and obligations of patentee. | | | | | | | | **TEXTBOOKS**  1. B.S. Patil, Legal Aspects of Building and Engineering Contracts, 1974.  2.D.D. Basu, “Shorter Constitution of India”, Prentice Hall of India, 1996.  3. John R Boatright, “Ethics and the Conduct of Business”, Pearson Education, 2003.  4. Mike Martin and Roland Schinzinger, “Ethics in Engineering,” McGraw Hill, New York, 3rd Edition, 2015.  **REFERENCES**  1. T. Ramappa (2017), Intellectual Property Rights Law in India, Asia Law House 12. Bare text (2005)  2.Charles E Harris, Michael S Pritchard, and Michael J Rabins, “Engineering Ethics – Concepts and Cases,” Thompson Learning, 2019. | | | | | | | |