

SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

SRM Nagar, Kattankulathur – 603 203

DEPARTMENT OF AGRICULTURAL ENGINEERING

QUESTION BANK



VI SEMESTER

1915001- PROFESSIONAL ETHICS

Regulation – 2019

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Prepared by

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SUBJECT CODE/NAME: 1915001- PROFESSIONAL ETHICS
SEM/YEAR: VI/III

UNIT I - <u>HUMAN VALUES</u>			
<i>Moral values and Ethics – Integrity – Work ethic – Service learning – Civic virtue – Respect for others – Living peacefully – Caring – Sharing – Honesty – Courage – Valuing time – Cooperation – Commitment – Empathy – Self-confidence – Character – Introduction to Yoga and Meditation for professional excellence and stress management - Simple Living and High Thinking, Science and Spirituality.</i>			
PART A			
Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Define Ethics.	BT-1	Remember
2.	Differentiate Moral and Ethics.	BT-2	Understand
3.	What are human values?	BT-1	Remember
4.	Distinguish values from ethics and culture.	BT-2	Understand
5.	What is integrity?	BT-1	Remember
6.	Enlist the types of values.	BT-1	Remember
7.	Differentiate descriptive and Normative ethics.	BT-2	Understand
8.	Define work ethics.	BT-1	Remember
9.	Enlist the types of integrity.	BT-1	Remember
10.	Define empathy.	BT-1	Remember
11.	Differentiate Self-respect and Self-esteem.	BT-2	Understand
12.	Differentiate Micro-ethics and Macro-ethics.	BT-2	Understand
13.	What do you understand by Stress Management?	BT-1	Remember
14.	What is courage as a value?	BT-1	Remember

15.	Give 5 Characteristics of a Good Work Ethic.	BT-1	Remember
16.	Define the term self-confidence. How it's related to character development.	BT-1	Remember
17.	Brief about Civic Virtues.	BT-1	Remember
18.	Distinguish between caring and sharing.	BT-2	Understand
19.	Define Professionalism.	BT-1	Remember
20.	Name the methodologies that are effective in developing self-confidence in a person.	BT-1	Remember
21.	Define spirituality?	BT-2	Understand
22.	Give the Classifications of Yoga.	BT-3	Application
23.	Give the medical benefits of meditation.	BT-2	Understand
24.	Give the Physical benefits of meditation.	BT-1	Remember
25.	Define Co-operation and its types.	BT-1	Remember
PART B			
1.	Differentiate between morals, values, and ethics with suitable examples.	BT-3	Application
2.	Discuss the role of ethics in personal and professional life.	BT-3	Application
3.	Define integrity. Explain its importance in building trust in professional relationships.	BT-3	Application
4.	Differentiate between personal values and professional values.	BT-2	Understand
5.	Explain the different types of human values with suitable examples.	BT-3	Application
6.	What is civic virtue? Illustrate how it contributes to societal development with examples.	BT-3	Application
7.	Discuss the importance of civic virtue in balancing individual and societal interests.	BT-3	Application
8.	Highlight strategies for living peacefully in a highly competitive and stressful professional world.	BT-1	Remember
9.	How does caring and sharing enhance interpersonal relationships in the workplace?	BT-1	Remember
10.	Explain the role of sharing knowledge and resources in fostering teamwork and innovation.	BT-3	Application
11.	Define honesty. Why is it considered a cornerstone of professional ethics?	BT-1	Remember
12.	Discuss the importance of courage in ethical decision-making with real-life examples.	BT-1	Remember
13.	Explain the concept of time management. How does valuing time influence professional productivity?	BT-3	Application
14.	Explain the importance of empathy in leadership and team management.	BT-3	Application

15.	Differentiate organizational and professional commitment.	BT-2	Understand
16.	Explain the importance of empathy in leadership and team management.	BT-3	Application
17.	Differences between Yoga and Meditation in detail.	BT-2	Understand
PART C			
1.	Explain character and their importance in ethics.	BT-3	Application
2.	Explain detailed about cooperation and Commitment in human values.	BT-1	Remember
3.	How does self-confidence impact professional decision-making? Provide examples.	BT-3	Application
4.	Describe the role of yoga and meditation in managing stress and achieving professional excellence.	BT-1	Remember
5.	Explain spirituality and their importance in ethics.	BT-1	Remember
UNIT II - <u>ENGINEERING ETHICS</u>			
<i>Senses of 'Engineering Ethics' – Variety of moral issues – Types of inquiry – Moral dilemmas – Moral Autonomy – Kohlberg's theory – Gilligan's theory – Consensus and Controversy – Models of Professional roles – Theories about right action – Self-interest – Customs and Religion – Uses of Ethical Theories.</i>			
PART A			
Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Define moral Dilemma.	BT-1	Remember
2.	List the chief characteristics of a profession.	BT-1	Remember
3.	What is the significance of engineering ethics?	BT-1	Remember
4.	What is engineering ethics?	BT-1	Remember
5.	What is meant by normative inquiry?	BT-1	Remember
6.	What do you mean by ethical pluralism?	BT-1	Remember
7.	Differentiate Moral and Ethics.	BT-2	Understand
8.	State Rawls principles.	BT-1	Remember
9.	Write any three uses of ethical theories.	BT-1	Remember
10.	What are the types of Theories about Morality/ Right action?	BT-1	Remember
11.	Define Ethical Egoism	BT-3	Application
12.	Differentiate Ethical Relativism and Ethical Egoism?	BT-2	Understand

13.	Recall moral integrity.	BT-3	Application
14.	Distinguish profession and professionalism?	BT-2	Understand
15.	Give the importance of Kohlberg's and Gilligan's theory.	BT-1	Remember
16.	What is consensus and controversy?	BT-1	Remember
17.	What is the relationship between moral autonomy and authority?	BT-1	Remember
18.	What are the types of virtues	BT-1	Remember
19.	What are the cardinal virtues/ Chief Virtues?	BT-1	Remember
20.	What are the concepts of pre-conventional & conventional level in Gilligan's theory?	BT-1	Remember
21.	Define Ethics. Mention some universally accepted ethical standards.	BT-1	Remember
22.	Define moral values with suitable example.	BT-1	Remember
23.	What is meant by normative enquiry?	BT-1	Remember
24.	Define "Professionalism"	BT-1	Remember
25.	Define Moral Autonomy	BT-1	Remember
PART B			
1.	Describe the Senses of Engineering Ethics.	BT-1	Remember
2.	Explain in detail about Variety of Moral Issues	BT-3	Application
3.	Explain in detail about the types of INQUIRY.	BT-1	Remember
4.	Where and how do moral problems arise in engineering?	BT-3	Application
5.	Explain in detail about moral dilemmas.	BT-3	Application
6.	Explain the skills needed to handle problems about moral issues in engineering ethics.	BT-2	Understand
7.	Explain Kohlberg's theory in detail	BT-1	Remember
8.	Explain the three levels of moral developments with respect to Gilligan views.	BT-2	Understand
9.	Compare Kohlberg's and Gilligan's theory.	BT-1	Remember
10.	Explain the vital role of Consensus and controversy while considering moral autonomy in engineering ethics	BT-3	Application
11.	Explain in detail about professionalism	BT-3	Application
12.	What are the different ethical theories available for right action, self-interest, and duty ethics?	BT-3	Application
13.	Explain the theory of human right ethics and its classifications.	BT-1	Remember
14.	Brief about scope and importance of professional ethics in	BT-1	Remember

	engineering.		
15.	Write short notes on Utilitarian Theory and Virtue Theory.	BT-3	Application
16.	Discuss in detail about Self-interest, Customs and Religion.	BT-2	Understand
17.	Explain moral Autonomy.	BT-3	Application
PART C			
1.	Describe in detail about ideals and virtues.	BT-3	Application
2.	What do you understand by moral autonomy? Mention the skills to be possessed by moral autonomous engineer	BT-1	Remember
3.	Discuss in detail about Gilligan Theory	BT-2	Understand
4.	Explain moral disagreement, moral absolutism, moral relativism and moral pluralism	BT-3	Application
5.	Explain Moral Dilemma.	BT-3	Application
<u>UNIT III - ENGINEERING ASSOCIAL EXPERIMENTATION</u>			
<i>Engineering as Experimentation – Engineers as responsible Experimenters - Engineer’s Responsibilities to Economically Deprived People and Environment, Corruption – Codes of Ethics- Fundamental Principles – A Balanced Outlook on Law – Challenger Case Study</i>			
PART A			
Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	What are the pros and cons of industrial standardization?	BT-1	Remember
2.	What are the limitations of ethical code.	BT-1	Remember
3.	Define ethical accountability.	BT-1	Remember
4.	Name the aerospace experts and scientists who were associated with the Launching of challenger.	BT-1	Remember
5.	Name some of the important code of ethics published by engineering societies.	BT-1	Remember
6.	What was the primary reason that caused the failure of space shuttle program “challenger”?	BT-1	Remember
7.	What are the problems with the law in engineering?	BT-1	Remember
8.	How engineering could be regarded as preventive technology?	BT-3	Application
9.	What are the general features of morally responsible engineers?	BT-3	Application
10.	What is the specific role of informed consent in engineering experimentation?	BT-1	Remember
11.	What is the specific role of informed consent in engineering experimentation?	BT-1	Remember
12.	Differentiate scientific experiments and engineering projects.	BT-2	Understand

13.	How Titanic tragedy be brought under engineering as social experimentation?	BT-1	Remember
14.	Define the term moral autonomy.	BT-1	Remember
15.	What are the uncertainties occur in the model designs	BT-1	Remember
16.	What is meant by engineering as experimentation?	BT-1	Remember
17.	State the importance of Ethics codes.	BT-1	Remember
18.	What are the senses of engineering ethics?	BT-1	Remember
19.	Define Engineering Ethics.	BT-1	Remember
20.	List the advantages of industrial standards.	BT-1	Remember
21.	Define conscientiousness?	BT-1	Remember
22.	Show how does the law facilitate ethics in engineering?	BT-1	Remember
23.	Summarize the problems with the law in engineering.	BT-3	Application
24.	List the features of morally responsible engineers.	BT-1	Remember
25.	What are the merits of standardized experimentation?	BT-1	Remember
PART B			
1.	Compare and contrast engineering experiments with standard experiment	BT-2	Understand
2.	Explain in detail about industrial standards?	BT-3	Application
3.	Explain in detail the powerful support and proper role of law in engineering.	BT-2	Understand
4.	Explain in detail about a balanced outlook on law?	BT-3	Application
5.	What lessons have we learnt from “challenger space shuttle disaster?	BT-3	Application
6.	What are codes of ethics? State and explain the functions of code of ethics. In what ways engineering societies can promote ethics?	BT-1	Remember
7.	Compare scientific experiments with engineering projects.	BT-3	Applying
8.	How can engineer become a responsible experimenter? Highlight the code of ethics for Engineers.	BT-3	Application
9.	Discuss in detail about the concept of Moral Autonomy.	BT-2	Understand
10.	Explain about Research Ethics in detail.	BT-1	Remember
11.	What are the conditions that are essential for a valid Informed Consent?	BT-3	Application
12.	What are the different roles and functions of “CODES”?	BT-1	Remember
13.	Discuss on the roles played by the codes of ethics set by professional societies.	BT-3	Application

14.	What does the Balanced Outlook on Law stress in directing engineering practice?	BT-1	Remember
15.	Discuss the various problems being faced by the engineering and general public by Law in Engineering	BT-2	Understand
16.	How the ethical codes provide discipline among the engineers?	BT-2	Understand
17.	What is meant by informal consent when bringing an experimental product to the market?	BT-2	Understand
PART C			
1.	With a case study explains “learning from the past” in engineering experimentation	BT-1	Remember
2.	Discuss on “Engineers as Responsible Experimenters”	BT-3	Application
3.	Write about the essential roles and limitations of code of ethics.	BT-3	Application
4.	Discuss briefly the role of industrial standards	BT-3	Application
5.	Discuss on the different roles played in the code of ethics set by professional societies?	BT-3	Application
<u>UNIT IV - SAFETY, RESPONSIBILITIES AND RIGHTS</u>			
<p><i>Safety and Risk – Assessment of Safety and Risk – Risk Benefit Analysis and Reducing Risk – Government Regulator's approach to risks - The Three Mile Island, Chernobyl & Bhopal Case Studies, Greenery Effects - Collegiality and Loyalty - Respect for Authority – Collective Bargaining – Confidentiality – Conflicts of Interest – Unethical Behaviour at Work Place – Reporting Unethical Behaviour- Professional Rights – Employee Rights – Intellectual Property Rights (IPR).</i></p>			
PART A			
Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	What is conflict Interest?	BT-1	Remember
2.	What are the reasons for Risk-Benefit Analysis?	BT-1	Remember
3.	What are the safety measures an engineer must know before assessing a risk of any product?	BT-1	Remember
4.	Define loyalty.	BT-1	Remember
5.	Give the reasons for the Three Mile Island disaster.	BT-1	Remember
6.	What do you mean by voluntary risk?	BT-1	Remember
7.	What is safe risk and acceptability of risk?	BT-1	Remember
8.	List the methods that can be applied when testing is inappropriate.	BT-1	Remember
9.	What is the use of knowledge of risk acceptance to engineers?	BT-1	Remember
10.	What is the difference between legal and moral employee rights?	BT-2	Understand
11.	Define utilitarianism.	BT-1	Remember

12.	Explain the meaning of collective bargaining.	BT-1	Remember
13.	Define unethical behavior in the workplace.	BT-1	Remember
14.	Give two examples of unethical behavior in an organization.	BT-1	Remember
15.	Mention two consequences of unethical behavior at work.	BT-1	Remember
16.	Describe collegiality.	BT-1	Remember
17.	Difference between Bribe and Gift.	BT-2	Understand
18.	Why is reporting unethical behavior important?	BT-1	Remember
19.	Describe occupational crime.	BT-2	Understand
20.	What are whistleblower protections?	BT-1	Remember
21.	Why are professional rights important for employees?	BT-1	Remember
22.	What are the objectives of IPR?	BT-1	Remember
23.	Differentiate between patent and trade secret.	BT-2	Understand
24.	Define IPR.	BT-1	Remember
25.	Point out the need of intellectual property right.	BT-3	Application
PART B			
1.	Explain the process of risk-benefit analysis and its importance in workplace safety management.	BT-2	Understand
2.	Describe the role of government regulators in managing risks and ensuring public safety.	BT-3	Application
3.	How can collective bargaining be used to address workplace grievances effectively? Provide a practical example.	BT-2	Understand
4.	Illustrate the steps involved in reporting unethical behavior in an organization, ensuring whistleblower protection.	BT-3	Application
5.	Discuss how conflicts of interest arise in the workplace and provide strategies to manage them effectively.	BT-3	Application
6.	Compare and contrast the Chernobyl and Bhopal disasters, highlighting differences in risk management and consequences.	BT-1	Remember
7.	Compare 'fault tree analysis' and 'Event tree analysis' with suitable examples.	BT-3	Application
8.	Assess the importance of collegiality and loyalty in fostering a positive work environment and preventing unethical behavior.	BT-1	Remember
9.	Write a short notes on: personal risk and public risk	BT-3	Application
10.	What is occupational crime? Explain any one in detail. Discuss the ways and means of reducing occupational crime in industries?	BT-2	Understand
11.	Write short notes on employee rights for privacy and choice of outside activities.	BT-1	Remember
12.	Explain the key features of whistleblowing, supported by examples from real-life cases	BT-3	Application

13.	Distinguish between professional rights and employee rights, providing examples of how they are protected in the workplace.	BT-2	Understand
14.	What is intellectual property rights (IPR), and why is it essential for protecting innovation?	BT-1	Remember
15.	the need for intellectual property laws in a developing country like India.	BT-1	Remember
16.	Write short notes on copyrights and its types.	BT-1	Remember
17.	Describe why Trade Secrets are necessary. How do they function?	BT-2	Understand
PART C			
1.	'A nuclear accident anywhere is a nuclear accident everywhere'. Explain this with respect to Three Mile Island (TMI) case study.	BT-3	Application
2.	Apply the concept of reducing risks to the Bhopal gas tragedy and suggest measures that could have prevented the disaster.	BT-3	Application
3.	Propose a model policy for reporting unethical behavior in organizations, ensuring transparency and fairness.	BT-3	Application
4.	Express your views about the Intellectual Property Rights necessity for a nation like India	BT-2	Understand
5.	Discuss how discrimination can be both a benefit and a challenge in professional life.	BT-2	Understand
UNIT V - INTERNATIONAL ISSUES			
<p><i>Multinational corporations - Business ethics - Environmental ethics - Internet ethics - Role in Technological Development - Weapons development-engineers as managers - Consulting Engineers - Engineers as expert witnesses and advisors - Honesty - leadership - Sample code of conduct ethics - ASME, ASCE, IEEE, Institution of Engineers (India), Indian Institute of Materials Management Institution of electronics and telecommunication engineers (IETE), India – Corporate Social Responsibility, Indian and Western Culture – Cyber Crime.</i></p>			
PART A			
Q.NO	QUESTIONS	BT LEVEL	COMPETENCE
1.	Define business ethics.	BT-1	Remember
2.	What do you mean by MNC?	BT-1	Remember
3.	What is embezzlement?	BT-1	Remember
4.	What the hired guns?	BT-2	Understand
5.	What is technology transfer?	BT-1	Remember
6.	What does moral leadership mean?	BT-1	Remember
7.	State the most important ethical mistake made by the multinational corporation which caused Bhopal gas plant disaster	BT-2	Understand
8.	Define Conflict resolution	BT-1	Remember

9.	What is contextualize?	BT-2	Understand
10.	What are ethical pluralism and ethical relativism?	BT-3	Application
11.	What should an ethical expert witness, even though hired by a company, expected to do?	BT-1	Remember
12.	What are the international rights listed by Donaldson?	BT-1	Remember
13.	Define appropriate technology?	BT-2	Understand
14.	List out four examples for Multinational Corporation.	BT-1	Remember
15.	Define computer ethics?	BT-3	Application
16.	What is meant by globalization?	BT-1	Remember
17.	What are the three senses of relative values?	BT-1	Remember
18.	What are the normal issues arise in Multinational Corporation?	BT-1	Remember
19.	Differentiate the Eye witness and expert witness in the legal system	BT-2	Understand
20.	What is meant by Moral Leadership	BT-3	Application
21.	What are the moral dimensions of an Engineer-manager?	BT-1	Remember
22.	Give some of the Environmental issues of concern to engineers?	BT-1	Remember
23.	What is hacking?	BT-1	Remember
24.	What is autonomous computer?	BT-1	Remember
25.	What are the three versions of Relativism?	BT-3	Application
PART B			
1.	Discuss the ethical challenges faced by multinational corporations in global operations.	BT-1	Remember
2.	Explain the significance of business ethics in maintaining organizational integrity.	BT-3	Application
3.	Describe the role of engineers in promoting environmental ethics in industries.	BT-2	Understand
4.	Discuss the role of engineers as managers and the ethical challenges they face in managerial positions.	BT-3	Application
5.	Explain the responsibilities of engineers as consulting engineers, expert witnesses, and advisors, highlighting their ethical obligations in each role.	BT-3	Application
6.	Describe in details about the global issues of weapons development.	BT-1	Remember
7.	What is Environmental ethics? List its significance. Give some of the environmental issues of concern to engineers.	BT-3	Application

8.	Compare the ethical guidelines of the Institution of Engineers (India) with those of international organizations like ASME and ASCE.	BT-1	Remember
9.	Highlight the similarities and differences between the codes of ethics of ASME and ASCE , with examples.	BT-2	Understand
10.	Write about the code of ethics guidelines of the Institution of Engineers (India).	BT-3	Application
11.	Evaluate the ethical issues faced by engineers involved in weapons development.	BT-2	Understand
12.	Discuss the responsibilities of engineers in minimizing the misuse of technology in weapons development.	BT-1	Remember
13.	Explain the ethical challenges faced by engineers in managerial roles.	BT-1	Remember
14.	Discuss the responsibilities and ethical considerations for consulting engineers.	BT-3	Application
15.	Describe the ethical obligations of engineers acting as expert witnesses in legal cases.	BT-2	Understand
16.	Analyze the role of engineers as advisors in ensuring professional and ethical practices.	BT-3	Application
17.	Explain the importance of honesty and transparency in engineering practices.	BT-3	Application
PART C			
1.	Define multinational corporations (MNCs) and explain the benefits they provide to host countries. Additionally, discuss the advantages and disadvantages of MNCs, along with the three senses of relative values.	BT-3	Application
2.	Compare and contrast the codes of conduct for ASME, ASCE, IEEE, and the Institution of Engineers (India).	BT-2	Understand
3.	Explain the concept of Corporate Social Responsibility (CSR) and its relevance in Indian and Western cultures.	BT-3	Application
4.	Discuss the role of ethical leadership in fostering a positive organizational culture.	BT-3	Application
5.	Discuss the ethical issues related to computer ethics.	BT-2	Understand