SRM VALLIAMMAI ENGINEERING COLLEGE
(An Autonomous Institution)
SRM Nagar, Kattankulathur – 603 203

QUESTION BANK

IV SEMESTER
1915001 PROFESSIONAL ETHICS

Common to CSE, IT, MECHANICAL, ECE, EEE, EIE, MEDICAL ELECTRONICS, CYBER SECURITY, ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

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UNIT-1
HUMAN VALUES

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

S. No	Questions	BTL	Competence
1.	What is morality?	BTL 1	Remember
2.	Define ethics	BTL 1	Remember
3.	Distinguish between 'morality' and 'ethics'	BTL 2	Understand
4.	What is meant by integrity? How it related to work ethics?	BTL 4	Analyze
5.	Point out the importance of integrity.	BTL 3	Apply
6.	Define work ethics.	BTL 1	Remember
7.	What is service learning?	BTL 1	Remember
8.	How does self-confidence help an engineer?	BTL 3	Apply
9.	What should one do or not to do live peacefully?	BTL 4	Analyze
10.	Distinguish between 'caring' and 'sharing'	BTL 2	Understand
11.	Bring out the difference between cooperation and commitment?	BTL 2	Understand
12.	What is commitment?	BTL 1	Remember
13.	What are the impediments to proper co-operation?	BTL 3	Apply
14.	Write the benefits of 'commitment'.	BTL 6	Create
15.	Define the term empathy and how is it related to Emotional Quotient?	BTL 4	Analyze
16.	Assess the qualities of a self-confident people.	BTL 5	Evaluate
17.	Define the term self-confidence. How it is related to character development?	BTL 5	Evaluate
18.	List the importance of doing yoga.	BTL 2	Understand
19.	What factors help in peaceful living?	BTL 1	Remember
20.	Write about your opinion on stress management.	BTL 6	Create
PART-B			
1.	Explain the scope and importance of professional ethics in engineering. (13)	BTL 1	Remember
2.	What is integrity? How integrity plays a major role in work ethics? Discuss with suitable examples. (13)	BTL 4	Analyze
3.	Define Service Learning and discuss on its components. (13)	BTL 1	Remember
4.	Discuss the role in caring & sharing in society with suitable examples. (13)	BTL 3	Apply
5.	Illustrate the different categories of civic virtues in detail(13)	BTL 2	Understand
6.	**(i)** Write short notes on Honesty and Integrity. (6)	BTL 2	Understand

	(ii) What is Courage? What are the salient features of courage? (7)		
7.	**(i)** Explain various actions of an engineer leading to dishonesty. (7) **(ii)** Mention the importance of courage with examples. (6)	BTL 2	Understand
8.	Explain in detail about work ethics and complex social problems existing in the business scenario. (13)	BTL 1	Remember
9.	Explain about character and its importance on building character in workplace. (13)	BTL 1	Remember
10.	Examine the importance of valuing time and co-operation. (13)	BTL 3	Apply
11.	What are the factors that shape self-confidence in a person? Explain self-confidence and its importance. (13)	BTL 4	Analyze
12.	What is empathy? Discuss its role in the spiritual development for excellence in an organization with suitable examples. (13)	BTL 5	Evaluate
13.	Examine the role of yoga and meditation for professional excellence and stress management. (13)	BTL 4	Analyze
14.	Explain in detail the different ways to handle stress. (13)	BTL 6	Create

	PART-C		
1.	Analyze the various human values, which are essential to Engineers.(15)	BTL5	Evaluate
2.	Explain with suitable examples how the respect for others religious beliefs enhance the peaceful living.	BTL 6	Create
3.	Discuss the role and importance of Ethics in Engineering.(15)	BTL 5	Evaluate
4.	Illustrate the necessity of stress management with suitable examples. (15)	BTL 6	Create

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UNIT-2
ENGINEERING ETHICS

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

S. No	Questions	BTL	Competence
1.	State the scopes of 'engineering ethics'.	BTL 1	Remember
2.	What are the two conventional approaches in the study of ethics?	BTL 2	Understand
3.	Why do people behave unethically?	BTL 5	Evaluate
4.	Name three types of inquiries.	BTL 3	Apply
5.	What are the situations when moral dilemmas arise?	BTL 6	Create
6.	Define 'Resource Crunch'.	BTL 1	Remember
7.	Differentiate between 'Kohlberg and Gilligan theory' of moral development.	BTL 2	Understand
8.	State the importance of ethical theories.	BTL 1	Remember
9.	Point out the implications of consensus& controversy.	BTL 3	Apply

10.	List the criteria to achieve professionalism.	BTL 3	Apply
11.	List the models of professional roles.	BTL 1	Remember
12.	What are the types of 'responsibility'?	BTL 4	Analyze
13.	What are the virtues fulfilled under professional responsibility?	BTL5	Evaluate
14.	Differentiate between self-respect and self-esteem.	BTL 2	Understand
15.	Define Morale Dilemma.	BTL 1	Remember
16.	What are the four features of moral rights?	BTL 4	Analyze
17.	List the theories about right action.	BTL 1	Remember
18.	Show the significance of religion and customs.	BTL 6	Create
19.	Distinguish between 'corporate responsibility' and 'corporate accountability	BTL 2	Understand
20.	What are the reasons for a person to accept 'ethical relativism'?	BTL 4	Analyze
PART-B			
1.	Give an overview of Engineering Ethics with a case study. (13)	BTL 1	Remember
2.	Explain the skills required to handle moral problems/issues in engineering ethics. (13)	BTL 6	Create
3.	Give an example where a single fact can show different moral standards and judgments, leading to opposite guidelines for action. (13)	BTL 2	Understand
4.	Discuss on three types of inquiries, giving an example each. (13)	BTL 2	Understand
5.	Discuss the role of Consensus and controversy while considering moral autonomy in Engineering ethics. (13)	BTL5	Evaluate
6.	List and explain the logical steps involved confronting moral dilemma.(13)	BTL 1	Remember
7.	Compare the interpretation (moral development theory) of Kohlberg and Gilligan, with an illustrative example. (13)	BTL 3	Apply
8.	List various role models of professional engineers and explain them. (13)	BTL 1	Remember
9.	Discuss the characteristics of the professions as different from non-professional occupation. (13)	BTL 4	Analyze
10.	Distinguish the different types of responsibilities exhibited in human transactions with example. (13)	BTL 3	Apply
11.	List various principles of Duty Ethics. Compare the basic features of different ethical theories. (13)	BTL 4	Analyze
12.	Discuss on how customs and religion plays a major roles in shaping moral views and moral value. (13)	BTL 4	Analyze
13.	What is meant by self-interest? Relate the term with "Ethical Egoism" with suitable examples. (13)	BTL 2	Understand
14.	Demonstratein detail about various theories about right action. (13)	BTL 1	Remember
PART-C			
1.	Explain moral dilemma with a suitable case study. (15)	BTL5	Evaluate
2.	Analyze the impact of Gilligan's theory on moral development. (15)	BTL5	Evaluate

3.	Illustrate the applications of ethical theories in current scenario. (15)	BTL 6	Create
4.	Discuss on the choice of ethical theory to study a problem, with an example. (15)	BTL 6	Create

## UNIT-3
ENGINEERING AS SOCIAL EXPERIMENTATION

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

S. No	Questions	BTL	Competence
1.	What is engineering experimentation?	BTL 1	Remember
2.	Why does engineering have to be viewed as experimental process?	BTL 3	Apply
3.	How industrial standards are important for industries?	BTL 4	Analyze
4.	What are the elements of informed consent?	BTL 2	Understand
5.	What are the elements that should make an engineer a responsible experimenter?	BTL 3	Apply
6.	Name two aspects for comparing engineering work as experiment.	BTL 1	Remember
7.	Give the principles of experimental control.	BTL 2	Understand
8.	What are the elements of informed consent?	BTL 1	Remember
9.	What does the code of ethics exhibit?	BTL5	Evaluate
10.	Name the roles of code of ethics.	BTL 1	Remember
11.	What are the ethical issues in corruption?	BTL 1	Remember
12.	Distinguish between the codes of ethics and codes of conduct.	BTL 2	Understand
13.	What is meant by conscientiousness?	BTL 1	Remember
14.	What is the importance of industrial standards?	BTL 3	Apply
15.	What does the balanced outlook on law stress in engineering practice?	BTL 6	Create
16.	Simplify the concept behind Ethical Conventionalism.	BTL 4	Analyze
17.	Estimate about universally accepted ethical principles.	BTL5	Evaluate
18.	State the two conceptual issues happened in the Challenger case.	BTL 2	Understand
19.	How does the law facilitate ethics in engineering?	BTL 4	Analyze
20.	Interpret the problems with the law in engineering.	BTL 6	Create
PART-B			
1.	"Design as well as Engineering is an iterative process", Discuss. (13)	BTL 1	Remember
2.	Compare and contrast engineering experiments with standard experiments with suitable examples. (13)	BTL 3	Apply
3.	Discuss the problems with law in engineering practice. (13)	BTL 1	Remember
4.	What engineering aspects make it appropriate to view engineering projects as experiments? (13)	BTL 6	Create
5.	What are the general features of morally responsible engineers? Explain each with appropriate examples. (13)	BTL 2	Understand
6.	In case of challenger disaster, examine if the principal actors behaved as responsible experimenters. (13)	BTL 4	Analyze

7.	What is research ethics? Discuss the models of research ethics with suitable examples. (13)	BTL 2	Understand
8.	What are the safety lessons one can learn in the challenger case? (13)	BTL 2	Understand
9.	Summarize the purposes of code of conduct in fighting corruption. (13)	BTL5	Evaluate
10.	Analyze the importance of codes of ethics? Explain in detail. (13)	BTL 4	Analyze
11.	What are the limitations in "Code of Ethics"? Explain. (13)	BTL 4	Analyze
12.	Asses how Engineering societies can promote ethics. (13)	BTL 3	Apply
13.	Demonstrate the various problems and role of law in Engineering. (13)	BTL 1	Remember
14.	Discuss in detail about balanced outlook on law. (13)	BTL 1	Remember
PART-C			
1.	Explain the Bhopal gas tragedy. Discuss the violation of moral, ethical and professional codes of standards in it. Write a conclusion to avoid such tragedy in future. (15)	BTL 6	Create
2.	"Engineering as experimentation plays a vital role in the design process" - Discuss with suitable example. (15)	BTL5	Evaluate
3.	Explain in detail the challenger accident. What are the ethical problems involved in this? (15)	BTL 6	Create
4.	Examine the importance of balance outlook on law through a case study. (15)	BTL5	Evaluate

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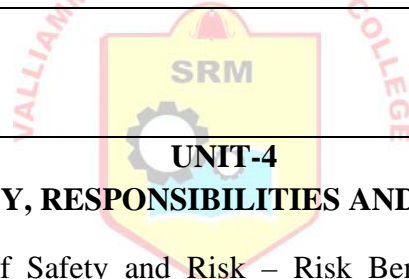
UNIT-4
SAFETY, RESPONSIBILITIES AND RIGHTS

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)

S. No	Questions	BTL	Competence
1.	Define safety.	BTL 2	Understand
2.	Name the factors that influence the perception of risk.	BTL 1	Remember
3.	Compare "safety" and "risk".	BTL5	Evaluate
4.	Mention two ways to determine the risk.	BTL 1	Remember
5.	List two analytical methods of testing for safety of a product/project.	BTL 4	Analyze
6.	Generalize any two ethical implications of risk benefit analysis.	BTL 6	Create
7.	What is meant by voluntary risk?	BTL 1	Remember
8.	What is unethical work behaviour?	BTL 2	Understand
9.	List various aspects of collegiality.	BTL 3	Apply
10.	Name any two senses of loyalty.	BTL 1	Remember

11.	Predict about institutional authority with an example.	BTL 3	Apply
12.	Interpret the meaning of conflict of interest.	BTL 6	Create
13.	What is meant by proprietary information?	BTL 2	Understand
14.	How do the ethical theories justify confidentiality?	BTL 4	Analyze
15.	What is the difference between bribe and gift?	BTL 3	Apply
16.	What is meant by occupational crime?	BTL 1	Remember
17.	Assess various provisions under human rights.	BTL5	Evaluate
18.	What is meant by Bootlegging?	BTL 1	Remember
19.	Classify the different types of intellectual property?	BTL 2	Understand
20.	Differentiate between patent and trade secret.	BTL 4	Analyze
PART-B			
1.	Define the Risk and Safety. How we, engineers assess the safety? (13)	BTL 4	Analyze
2.	Discuss the procedure in risk benefit analysis and discuss its role in reducing risks with suitable examples. (13)	BTL5	Evaluate
3.	Explain the risk benefit analysis and conceptual problems associated with it. (13)	BTL 4	Analyze
4.	Discuss the testing strategies for safety with suitable examples. Mention the difficulties in assessing the personal risks. (13)	BTL 2	Understand
5.	Discuss the concept of safe exit in the Chernobyl case study. (13)	BTL 1	Remember
6.	Discuss various moral principles justifying the concept of 'Confidentiality' and also explain types of confidential information.(13)	BTL 3	Apply
7.	Explain the importance of Collective bargaining. (13)	BTL 1	Remember
8.	Discuss the 'faithful agent argument' and 'Public service argument' of collective with suitable examples. (13)	BTL 4	Analyze
9.	Describe the concept of confidentiality in professional ethics. (13)	BTL 2	Understand
10.	Explain in detail the types of conflicts of interests and ways to avoid conflicts of Interests. (13)	BTL 3	Apply
11.	**(i)** What is an occupational crime? Explain any one in detail. (6) **(ii)** Tabulate the difference between employee rights and Professional rights. (7)	BTL 2	Understand
12.	Explain "Employee Rights" and its role in a Business organisation. (13)	BTL 1	Remember
13.	What are the elements of Intellectual property rights? Explain. (13)	BTL 1	Remember
14.	Summarize the safety lessons from "The Challenger".	BTL 6	Create
PART-C			
1.	Discuss aboutthe worst industrial disaster with respect to Bhopal Gas tragedy. (15)	BTL5	Evaluate
2.	Compare "Fault tree analysis" and "Event tree analysis". Illustrate with suitable example how safety analysis of a system can be done with a fault tree. (15)	BTL5	Evaluate

3.	Illustrate with example how IPR provides security to manufacturing and selling of a product. (15)	BTL 6	Create
4.	"Safety in a commodity comes with a price"-Substantiate with explanation. Discuss how the knowledge of risk is always better for safety with suitable examples. (15)	BTL 6	Create

UNIT V – INTERNATIONAL ISSUES

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

PART - A

S. No	Questions	BTL	Competence
1.	Generalize the term Embezzlement.	BTL 6	Create
2.	Demonstrate the meaning of Hired Guns.	BTL 1	Remember
3.	Interpret the term "technology transfer".	BTL 3	Apply
4.	Simplify the term 'moral leadership'.	BTL 4	Analyze
5.	Write the most important ethical mistake made by the multinational corporation which caused Bhopal Plant Disaster.	BTL 1	Remember
6.	Examine the term appropriate technology.	BTL 2	Understand
7.	List out the views of Conflict Resolution.	BTL 1	Remember
8.	What are the international rights listed by Donaldson?	BTL 2	Understand
9.	Express the term acid rain.	BTL 6	Create
10.	Define Globalization.	BTL 4	Analyze
11.	Differentiate Honesty and Moral Leadership.	BTL 2	Understand
12.	Assess the meaning of 'computer crime'.	BTL 1	Remember
13.	Identify the Environmental issues of concern to Engineers.	BTL 3	Apply
14.	Point out the difference between the Eye witness and Expert Witness in the Legal System.	BTL 1	Remember
15.	How can Deceptive advertising be done?	BTL5	Evaluate
16.	Who are hackers?	BTL 1	Remember
17.	Express the term Business Ethics.	BTL 4	Analyze
18.	Define corporate social responsibility.	BTL 2	Understand
19.	Why code of conduct is necessary as per the Code of Ethics by Institute of Engineers(India)?	BTL5	Evaluate
20.	List the important details associated with computer ethics.	BTL 3	Apply

PART – B

1.	i) What are the three versions of Relativism. (7) ii) Relate the advantages and disadvantages of MNCs. (6)	BTL 1	Remember
2.	List out the importance to study Environment Ethics. Discuss any environment issues in the ethical point of view to Engineers.	BTL 3	Apply
3.	Define Corporate Responsibility. Explain in brief. (13)	BTL 3	Apply
4.	Compare the Principles of Business Ethics. (13)	BTL 4	Analyze
5.	Describe In details about the global issues of weapon development. (13)	BTL 6	Create
6.	Describe the Bhopal Gas Tragedy and its effects. (13)	BTL 2	Understand
7.	Discuss in detail about the moral and ethical issues involved in use of computers. (13)	BTL 2	Understand
8.	Identify the role of engineers as "Consulting Engineers and Expert Witness. (13)	BTL 4	Analyze
9.	Examine the ethical issues related to computer ethics. (13)	BTL5	Evaluate
10.	Contrast the Traits of Moral Leadership and quote the Leadership quality from Thirukkural an Indian Culture's perspective in detail. (13)	BTL 4	Analyze
11.	Write in detail about the code Of Ethics for Corporate Members as per the Institution of Engineers(India).. (13)	BTL 1	Remember
12.	Analyze the moral and ethical issues involved in use of Computer Technology. (13)	BTL 2	Understand
13.	Summarize the IEEE Code of Ethics. (13)	BTL 1	Remember
14.	Elaborate the ethical role of engineers as expert witness with suitable examples. (13)	BTL 1	Remember

PART- C

1.	Discuss the ethical role of engineers in weapon development with suitable examples. (15)	BTL-5	Evaluate
2.	Examine the dynamic nature of an Engineer's managerial role with suitable example. (15)	BTL-5	Evaluate
3.	Illustrate the importance of code of conduct in current scenario. (15)	BTL-6	Creating
4.	State the types of concern for environment by the Engineers. Discuss the approaches to resolve Environmental problems. What do professional codes of ethics say about the Environment? (15)	BTL-5	Evaluate