


**Government of Karnataka**  
**Department of Technical Education**  
**Board of Technical Examinations, Bangalore**

	Course Title: <b>PROFESSIONAL ETHICS &amp; INDIAN CONSTITUTION</b>		
	Scheme (L:T:P) : <b>4:0:0</b>	Total Contact Hours: <b>52</b>	Course Code: 15EC41T
	Type of Course: <b>Lectures, Self Study &amp; Quiz</b>	Credit : <b>04</b>	Core/ Elective: <b>Core</b>
CIE- 25 Marks		SEE- 100 Marks	

**Prerequisites:** Enthusiasm to learn the subject

**Course Objectives:**

1. To create an awareness on Engineering Ethics and Human Values.
2. To instill Moral and Social Values and Loyalty.
3. Create awareness among engineers about their social responsibilities
4. Appreciate the Ethical issues
5. To Know the Human rights and concept of women empowerment
6. To know features of our constitution.

**Course Outcomes:**

*On successful completion of the course, the students will be able to attain CO:*

Course Outcome		CL	Linked PO	Teaching Hrs
CO1	Practice the moral values that ought to guide the Engineering profession.	<i>R/U</i>	5,6,7,8,10	<b>10</b>
CO2	Discover of the set of justified moral principles of obligation, ideals that ought to be endorsed by the engineers and apply them to concrete situations	<i>U/A</i>	5,7,8,10	<b>09</b>
CO3	Know the definitions of risk and safety also discover different factors that affect the perception of risk	<i>R/U</i>	5,6,7,10	<b>05</b>
CO4	Appreciate the Ethical issues and Know the code of ethics adopted in various professional body's and industries	<i>R/U</i>	5,6,7,10	<b>06</b>
CO5	Justify the need for protection of human rights and to know about concept of women empowerment	<i>R/U</i>	5,6,7,8,10	<b>8</b>
CO6	Know the successful functioning of democracy in India	<i>R/U</i>	5,6,7,9,10	<b>14</b>
			<b>Total sessions</b>	<b>52</b>

**Legend: R; Remember, U: Understand A: Application**

### COURSE-PO ATTAINMENT MATRIX

Course	Programme Outcomes									
	1	2	3	4	5	6	7	8	9	10
<b>PROFESSIONAL ETHICS &amp; INDIAN CONSTITUTION</b>	-	-	-	-	3	3	3	3	2	3

Level 3- Highly Addressed, Level 2-Moderately Addressed, Level 1-Low Addressed.

Method is to relate the level of PO with the number of hours devoted to the COs which address the given PO.  
 If  $\geq 40\%$  of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 3  
 If 25 to 40% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 2  
 If 5 to 25% of classroom sessions addressing a particular PO, it is considered that PO is addressed at Level 1  
 If  $< 5\%$  of classroom sessions addressing a particular PO, it is considered that PO is considered not-addressed.

### COURSE CONTENT AND BLUE PRINT OF MARKS FOR SEE

Unit No	Unit Name	Hour	Questions to be set for SEE			Marks weightage	weightage (%)
			R	U	A		
1	HUMAN VALUES	10	15	15	-	30	21
2	ENGINEERING ETHICS	09	10	15	-	25	17
3	SAFETY, RESPONSIBILITIES OF ENGINEERS	05	05	-	10	15	11
4	ETHICAL ISSUES IN ENGINEERING PRACTICE	06	05	05	5	15	11
5	HUMAN RIGHTS	8		15	5	20	13
6	INDIAN CONSTITUTION	14		25	15	40	27
	Total	52	35	75	35	145	100

Legend: R; Remember, U: Understand A: Application

**UNITI: HUMAN VALUES****10Hrs**

Professional Ethics-Objectives of study of professional ethics-Human values- Definition of Morals and Ethics-Difference between Morality and Ethics-Values-Definition-Types of values-Definition of Integrity- Concept of Work Ethic- Service Learning- Definition Virtues-Definition-Civic Virtue-Duties and Rights - Respect for Others – Attitude and values, opinions-changing attitude-beliefs-Reliability-Living Peacefully-Means to be adopted for leaving peacefully-Caring-Sharing-Honesty-Valuing Time-Co-operation-Commitment-Empathy-Self-Confidence-Spirituality.

**UNITII: ENGINEERING ETHICS****09Hrs**

Engineering ethics-Definition-Approach-Senses of Engineering Ethics-variety of moral issues–Inquiry-Types-Moral dilemmas-Steps to solve dilemma-Moral autonomy –Definition-consensus & controversy –Profession-Definition–Ethical theories-Theories about right action Personality–Self control- Self-interest –Self respect.

**UNITIII: SAFETY, RESPONSIBILITIES OF ENGINEERS****05Hrs**

Safety and risk-definition- - assessment of safety and risk - risk benefit analysis and reducing risk –Personal risk-Public risk-Reducing risk-Voluntary Risk-Collegiality and loyalty–Authority-Types- collective bargaining -occupational crime –Responsibility of engineers–Types-Social responsibility-Professional responsibility-confidentiality-conflicts of interest-liability

**UNIT IV: ETHICAL ISSUES IN ENGINEERING PRACTICE****06Hrs**

Ethical issues–Industrial standards-Environmental ethics –Plastic waste disposal-E-Waste Disposal-Semi conductor waste Disposal-Industrial waste disposal-Human centred environmental ethics- computer ethics –Types of issues-Computer as the Instrument and Object of Unethical Acts -Engineers as managers-Codes of ethics-Sample code of Ethics like -Institution of Engineers(India)-Institute of Electrical & Electronics engineers- Institute of Electronics & Telecommunication Engineers - Indian Institute of Materials Management.

**UNIT V: HUMAN RIGHTS****8 Hrs**

Human Rights-Definition-constitutional provisions-right to life and liberty-Human Rights of Women-Discrimination against women- steps that are to be taken to eliminate discrimination against women in Education, employment, health care, Economic and social life, Women in rural areas- Status of Women in India - Constitutional Safeguards - Dowry Prohibition act 1961- Domestic violence act 2005- Sexual harassment at work place bill 2006-Human Rights of Children- Who is a child- list the Rights of the Child- Right to education--Protection of Children from Sexual Offences Act(POCSO)-2012- National Human Rights Commission- Constitution-Powers and function of the Commission-Employee rights- Provisions made-Contractual-Non contractual employee rights-Whistle blowing-definition-Aspects-Intellectual Property Rights (IPR)–Meaning-Need for protection- Briefly description of concept of patents, Copy right, Trade mark.

Introduction to constitution of India-Formation and Composition of the Constituent Assembly- Salient features of the Constitution-Preamble to the Indian Constitution Fundamental Rights- Fundamental Duties-Directive principles of state policy.

Parliamentary system of governance- Structure of Parliament- Lokhasabha and Rajyasabha - Functions of parliament- Legislative, Executive, Financial Function, Powers of Loksabha and Rajya Sabha- Procedure followed in parliament in making law-Structure of union executive- Power and position of President, Vice President, Prime minister and council of ministers. Structure of the judiciary: Jurisdiction and functions of Supreme Court, high court, and subordinate courts

Federalism in the Indian constitution, Division of Powers- Union list, State list and concurrent list, Structure of state legislation, Legislative assembly and Legislative council, Functions of state legislature, Structure of state executive-Powers and positions of Governor, Speaker, Deputy Speaker, Chief Minister and council of minister.

Local self government- meaning-Three tiers system-Village panchayath-Taluk panchayath-Zilla panchayath-Local bodies-Municipalities and Corporations, Bruhath mahanagara Palike. Functions of Election commission, UPSC, KPSC.

### **MODEL QUESTION PAPER**

4- Semester Diploma Examination

#### **PROFESSIONAL ETHICS & INDIAN CONSTITUTION**

Time: **3**

**Hours]**

**[Max Marks: 100**

**Note: Answer**

*any SIX from Part A and any SEVEN from Part B*

#### **PART-A**

6x5=30 marks

1. Distinguish between 'morality' and 'ethics'
2. Explain the terms, 'Profession', 'Professional', and 'Professionalism'?
3. Name a few techniques (steps) to reduce risks?
4. List the ill effects of E waste disposal on environment?
5. Explain the role of computers as object of Unethical Acts?
6. State various provisions under 'human rights'?
7. Differentiate between 'Patent' and 'Trade secret'?
8. State the function of Governor?
9. Write Note on gram panchayaths?

#### **PART-B**

7x10=70 marks

10. Illustrate the ethical aspect principle of caring or sharing, with an example?
11. Explain various actions of an engineer leading to dishonesty?
12. List the situations when moral dilemmas arise?

13. Distinguish between 'Social responsibility' and 'Professional responsibility'?
14. Explain Occupational crime?
15. Explain code of Ethics followed in Institution of Engineers?
16. Explain Sexual harassment at work place bill 2006?
17. Explain the basic structure of Parliament?
18. Explain the formation and functions of state high Court?
19. State the role of following members in Rajyasabha?:
  - a) Chairman
  - b) Leader of the house
  - c) Opposition leader



## MODEL QUESTION BANK

4<sup>th</sup> Semester

**Course title: PROFESSIONAL ETHICS & INDIAN CONSTITUTION**

**CO1: PRACTICE THE MORAL VALUES THAT OUGHT TO GUIDE THE ENGINEERING PROFESSION.**

### Level-1: Remember

1. List the key trends in engineering ethics?
2. Distinguish between 'morality' and 'ethics'?
3. List different types of values and give a few examples in each?
4. List the civic virtues one should develop?
5. List the types of virtues, with an example for each
6. List the factors for one to work peacefully?
7. List different ways the honesty reflects?
8. List the benefits of empathy?

### Level-2: Understand

9. Explain the term 'respect for others' with suitable example?
10. Explain what should one do or not to do live peacefully?
11. Distinguish between 'caring' and 'sharing'?
12. What are the impediments to proper co-operation?
13. Explain the factors that shape self-confidence in a person?
14. Explain two methods of developing self-confidence?
15. Illustrate the ethical aspect principle of caring or sharing, with an example?
16. Explain various actions of an engineer leading to dishonesty?
17. Explain Service Learning?

**CO2: DISCOVER OF THE SET OF JUSTIFIED MORAL PRINCIPLES OF OBLIGATION, IDEALS THAT OUGHT TO BE ENDORSED BY THE ENGINEERS AND APPLY THEM TO CONCRETE SITUATIONS**

**Level-1: Remember**

1. List the objectives of this course 'professional ethics'?
2. Define Engineering Ethics?
3. State the two approaches to Engineering ethics?
4. Define the term, 'moral dilemma'?
5. List the situations when moral dilemmas arise?
6. List the steps in confronting moral dilemma?
7. State the five characteristics of professionals?
8. State the specific virtues relating to honesty?
9. Define 'corporate responsibility'
10. Define 'corporate accountability'?
11. List the skills required to handle moral problems/issues in engineering ethics?

**Level-2: Understand**

12. Why do people behave unethically?
13. Why and how do moral problems arise in a profession?
14. Explain the moral dilemma
15. Explain the difficulties in solving moral problems?
16. Explain the relation between autonomy and authority?
17. Highlight the principle of 'pre-conventional level' of moral development?
18. Explain the terms, 'Profession', 'Professional', and 'Professionalism'?
19. Describe the virtues fulfilled under professional responsibility?
20. What is moral integrity? Write on its significance?
21. Distinguish between causal responsibility, moral responsibility and Legal responsibility?
22. Where and how do moral problems arise in engineering practice? Justify the safety and other obligations of professional engineers?

**CO3: KNOW THE DEFINITIONS OF RISK AND SAFETY ALSO DISCOVER DIFFERENT FACTORS THAT AFFECT THE PERCEPTION OF RISK**

**Level-1: Remember**

1. Name the factors that influence the perception of risk?
2. List the factors that affect the risk acceptability?
3. Name a few techniques (steps) to reduce risks?
4. List various aspects of collegiality?
5. List factors/principles to justify 'confidentiality'?

**Level-2: Understand**

6. Describe 'institutional authority' with an example?
7. What is meant by Professional Responsibility?

**Level-3: Application**

8. Explain 'collective bargaining with example'?
9. Explain briefly 'institutional authority'?
10. Explain Occupational crime?

**CO4: APPRECIATE THE ETHICAL ISSUES AND KNOW THE CODE OF ETHICS ADOPTED IN VARIOUS PROFESSIONAL BODY'S AND INDUSTRIES**

**Level-1: Remember**

1. List the ill effects of E waste disposal on environment?
2. Define 'computer ethics'? List the issues in 'computer ethics'?
3. Name different types of problems in 'computer ethics'?
4. List the ethical problems by computers in workplace?

**Level-2: Understand**

5. Describe briefly on code of ethics?
6. What are the duties of an engineer as an experimenter, in environmental ethics?
7. How the plastic waste disposals create havocs?
8. Discuss on Industrial waste disposal creating disasters on environment?

**Level-3: Application**

9. Explain 'environmental ethics'?
10. Explain human centred environmental ethics?
11. Explain the role of computers as instruments?
12. Explain the role of computers as object of Unethical Acts?
13. Explain the role of engineers as managers?
14. Explain code of Ethics followed in Institution of Engineers?
15. Explain code of Indian Institute of Materials Management?

**CO 5: JUSTIFY THE NEED FOR PROTECTION OF HUMAN RIGHTS AND TO KNOW ABOUT CONCEPT OF WOMEN EMPOWERMENT**

**Level-1: Remember**

1. State various provisions under 'human rights'?
2. List the features of 'international human rights'?
3. State the provisions under professional rights?
4. State the features of the employee rights?
5. List the principles of *conflict resolution*?
6. List the various Special Programs for Women's Development from government?

**Level-2: Understand**

7. Describe briefly 'trademark'?
8. Differentiate between 'Patent' and 'Trade secret'?
9. Describe 'intellectual property rights'?

**Level-3: Application**

10. Explain briefly the 'copyright'?
11. Explain briefly about patents?
12. Explain the concept of women empowerment?
13. Explain woman and Development?
14. Explain Dowry Prohibition act 1961?
15. Explain POCSO act 2012?
16. Explain domestic violence act 2005?
17. Explain Sexual harassment at work place bill 2006?

## CO6: KNOW THE SUCCESSFUL FUNCTIONING OF DEMOCRACY IN INDIA

### Level-1: Remember

1. List the function and powers of parliament?
2. State the positions and powers of the Governor?
3. State the powers and Functions of the Chief Minister?
4. State the functions of Taluk panchayaths?
5. State the functions of Zilla panchayaths?
6. List the functions of urban local bodies?
7. State the powers of the president?
8. State the functions of the president?
9. State the powers and Functions of the prime minister?

### Level-2: Understand

10. Describe briefly about Indian constitution?
11. Write about structure of Parliament?
12. What are the Procedure followed in parliament in making law?
13. Describe the role of gram panchayaths in community upliftment?
14. Describe the role of: a) Chairman b) Leader of the house c) Opposition leader in Rajyasabha?
15. Describe importance of Judiciary?
16. Describe the Structure of state legislation
17. Describe the Jurisdiction of Supreme court,
18. Describe the Jurisdiction high court?

### Level-3: Application

19. Explain the Formation & Composition of constituent assembly?
20. Explain preamble and its main objectives of Indian constitution?
21. Explain the fundamental Rights of Every citizen?
22. Explain the fundamental Duties of Every citizen?
23. Explain salient features of Indian constitution?
24. Explain the basic structure of Parliament?
25. Explain the composition of Lokasabha?
26. Explain the composition of Rajyasabha?
27. Explain the Directive principles of state policy?
28. Explain the Structure Of The Judiciary?
29. Explain the Powers of Rajya Sabha and Loksabha ?
30. Describe briefly about, Division of Powers- Union list, State list and concurrent list,
31. Explain the federalism in the Indian constitution ?
32. Explain the role of vice president?
33. Explain the role of State council of ministers?
34. Explain the functions of Zilla panchayaths?
35. Explain the formation and functions of Supreme Court?
36. Explain the formation and functions of state high Court?
37. Explain the formation and functions of subordinate courts?
38. Explain the formation of three tier system for local self government?

