

**DEPARTMENT OF HUMANITIES AND SOCIAL SCIENCES II B.E.(4YDC)****HU 21481/26481/28481/29481: Values, Humanities and Professional Ethics**

HOURS PER WEEK			CREDITS		MAXIMUM MARKS				
L	T	P	Th	Pr	THEORY		PRACTICAL		TOTAL MARKS
					CW	END SEM	SW	END SEM	
-	2	-	2	-	100	-	-	-	100

**PRE-REQUISITES: NIL COURSE OBJECTIVES:-**

1. To make students understand of his/her social responsibility as an engineer.
2. To create an awareness on Engineering Ethics and Human Values
3. To make students capable of doing self-exploration and recapitulation
4. To make students aware of the global problems

**COURSE OUTCOMES: After completion of course, the students will be able to:**

1. Explain and elaborate the social institutions through which the society and nation is governed.
2. Make self-exploration through understanding self, body and their needs & activities.
3. Apply ethical decision making and describe ethical dilemma.
4. Contextualize the ethics with engineering profession, attitude and approaches as per needs of society and values.
5. Explain and illustrate the process of Social, Political and Technological changes in-context to global changes.

**COURSE CONTENT:**

**UNIT 1.** Role of Humanities in Engineering education, social institutions and association, social stratification in India, social change and its determinants.

**UNIT 2.** Self-Exploration, recapitulation, coexistence of self and body and their needs and activities, Morals, Values and Ethics, Universal and Situational values, . Balance between -rights and duties,

**UNIT 3.** Concept of personal and group Ethics: Ethical and decision-making capability and its development: Meaning of Ethical dilemma, steps to solve ethical dilemma.

**UNIT 4.** Engineering Ethics: engineers as responsible experimenters - codes of ethics - a balanced outlook on law - the challenger variety of moral issued - types of inquiry - moral dilemmas – moral autonomy - Kohlberg's theory - Gilligan's theory - consensus and controversy Models of Professional Roles.

**UNIT 5.** Global Issues: Multinational corporations - Environmental ethics - computer ethics - weapons development – engineers as managers-consulting engineers-engineers as expert witnesses and advisors - moral leadership.

**ASSESSMENT:**

Classwork (CW) of 100 marks in the subject will be done as follows:

- i. Internal viva and Activity/assignment submission: 30
- ii. Attendance: 20
- iii. quizzes/Tests: 50 (average of best two out of three)

**Books for references**

1. Little, William: An Introduction of Ethics (allied Publisher, Indian Reprint 1955)
2. William, K Frankena : Ethics (Prentice Hall of India, 1988)
3. Gaur R. R., Sangal R. and Bagaria G. P., Human Values and Professional Ethics, Excel Books, New Delhi, 2010
4. Mike Martin and Roland Schinzinger, "Ethics in Engineering", McGraw-Hill, New York 1996. Govindarajan M, Natarajan S, Senthil Kumar V. S, "Engineering Ethics", Prentice Hall of India, New Delhi, 2004