

SCHEME OF COURSEWORK

Course Details:

Course Title	HUMAN VALUES & PROFESSIONAL ETHICS			
Course Code	22HM11Z1	L T P	C	2 0 0 0
Program:	B.Tech.			
Specialization:	Computer Science and Engineering			
Semester	III			
Prerequisites	None			
Courses to which it is a prerequisite	None			

Course Outcomes (COs):

At the end of the course, the student will be able to:

1	Understand various concepts of ethics and ethical issues
2	Describe various theories relating to professional ethics at work place
3	Determine the fundamental concepts of social experimentation and problem solving
4	Understand an engineer's responsibility for social safety and concepts of risk/benefits
5	Describe human values and environment in the era of digitization and globalization of workplace.

Program Outcomes (POs):

Undergraduates will be able to:

1	PO-1 Apply the knowledge of mathematics, science, engineering fundamentals and principles of Information Technology to solve problems in different domains.....
2	PO-2 Analyze a problem, identify and formulate the computing requirements appropriate to its solution
3	PO-3 Design and develop software components, patterns, processes, Frameworks and applications that meet specification within the realistic constraints including societal, legal and economic to serve the needs of the society
4	PO-4 Design and conduct experiments, as well as analyze and interpret data
5	PO-5 Ability to use appropriate techniques & tools to solve engineering problems
6	PO-6 Understand the impact of Information technology on environment and the evolution and importance of green computing
7	PO-7 Ability to analyze the local and global impact of computing on individual as well as on society
8	PO-8 Ability to demonstrate professional ethical practices and social responsibilities in global and societal contexts.
9	PO-9 Ability to function effectively as an individual, and as a member or leader in diverse and multidisciplinary teams
10	PO-10 Ability to communicate effectively with the engineering community and with society at large

11	PO-11 Ability to understand engineering and management principles and apply them to one's own work, as a member and leader in a team, to manage projects.
12	PO-12 Ability to recognize the need for updating the knowledge in the chosen field and imbibe learning to learn skills.

Course Outcome Versus Program Outcomes:

COs	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO1	PSO2	PSO3
CO 1						3	3	3	2			2	3		2
CO 2							3	3	3	2			2		2
CO 3							3	3	3	2			2		2
CO 4							3	3	3	2			2	3	
CO 5							3	3	3	2			2		3

S- Strongly correlated, M- Moderately correlated, Blank- No correlation

Assessment Methods:	Assignment/Seminar/ Mid-Test/End Exam
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Teaching-Learning and Evaluation

Week No.	TOPIC/CONTENTS	Course Outcomes	Sample questions	TEACHING-LEARNING STRATEGY	Assessment Method & Schedule
1	UNIT I:HUMAN VALUES: Morals, Values and Ethics—Integrity—Work Ethics—Service learning.	CO-1	1. Differentiate between Morals and values 2. Explain Work ethics	□ Lecture □ Powerpoint presentation	ENDEXAM
2	Civic Virtue—Respect for others—Living Peacefully—Caring—Sharing—Honesty	CO-1	1. Explain Civic Virtue 2. Define caring and sharing	□ Lecture □ Powerpoint presentation	ENDEXAM
3	Courage—Cooperation—Commitment—Empathy—Self Confidence—Character—Spirituality	CO-1	1. Explain Self Confidence 2. Discuss about Courage.	□ Lecture □ Powerpoint presentation	ENDEXAM
4	UNIT II: ENGINEERING ETHICS: Senses of Engineering Ethics—Variety of moral issues—Types of inquiry—Moral dilemmas—Moral autonomy	CO-1	1. Explain Types of inquiry 2. Explain Senses of Engineering Ethics	□ Lecture □ Powerpoint presentation	ENDEXAM
5	Kohlberg's theory—Gilligan's theory—Consensus and controversy—Models of professional Roles	CO-2	1. Differentiate between Kohlberg's theory and Gilligan's theory 2. Explain about Models of	□ Lecture □ Powerpoint presentation	ENDEXAM

			professionalRoles		
6	Theories about right action-Selfinterest-Customs	CO-2	1. Explain about theories about right action 2. Explain about Customs	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM
7	Uses of Ethical theories – Valuing time – Cooperation – Commitment.	CO-2	1. What are the Uses of Ethical theories 2. Discuss about	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM
8	UNIT III: ENGINEERING ASSOCIALEXPERIMENTATION: Engineering As Social Experimentation – Framing the problem	CO-3	1. Explain about Engineering As Social Experimentation	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM
9	Determining the facts – Codes of Ethics – Clarifying Concepts – Application issues		1. Explain about Codes of Ethics	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	
10	Common Ground - General Principles – Utilitarian thinking – respect for persons	CO-3	1. Explain about Common Ground. 2. Discuss about Utilitarian thinking	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM
11	UNIT IV: ENGINEERS RESPONSIBILITY FOR SAFETY AND RISK Safety and Risk – Assessment of safety and risk	CO-4	1. Define Safety and Risk 2. Explain about Assessment of safety and risk	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM
12	Risk benefit analysis and reducing risk – Safety and the Engineer	CO-4	1. Explain about Risk benefit analysis 2. Discuss about Safety and the Engineer	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM
13	Designing for the safety – Intellectual Property Rights (IPR)	CO-4	1. Discuss about designing for the safety 2. Explain Intellectual Property Rights	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM
14	UNIT V: GLOBAL ISSUES Globalization – Cross culture issues – Environmental Ethics – Computer Ethics	CO-5	1. Explain Cross culture issues 2. What is meant by Environmental Ethics	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM
15	Computers as the instrument of Unethical behaviour – Computers as the object of Unethical acts.	CO-5	1. Explain Computers as the instrument of	<input type="checkbox"/> Lecture <input type="checkbox"/> Powerpoint presentation	ENDEXAM

			behaviour		
16	Autonomous Computers- Computer codes of Ethics – Weapons Development-	CO-5	1. Explain about Computer codes of Ethics 2. Discuss about Weapons Development	<ul style="list-style-type: none"> ▫ Lecture ▫ Powerpoint presentation 	ENDEXAM
17	Ethics and Research – Analyzing Ethical Problems in research	CO-5	1. Explain about Ethics and Research 2. Explain about	<ul style="list-style-type: none"> ▫ Lecture ▫ Powerpoint presentation 	ENDEXAM
18	ENDEXAM				