



Department of Computer Science and Engineering		LP :GE16001
		Rev. No: 00
B.E/B.Tech	: CS/EC Regulation:2016	Date: 11.12.2019
PG Specialisation	: -----	
Sub. Code / Sub. Name	: GE16001/ PROFESSIONAL ETHICS	
Unit	: I	

### UNIT I HUMAN VALUES

**Unit Syllabus :** Morals, 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 – Spirituality – Stress and Emotional management.

**Objective:** Moral, ethical and value principles are introduced.

Session No *	Topics to be covered	Ref	Teaching Aids
1	Morals, values and Ethics	T1,T2 R1,R6	PPT
2	Integrity , Work ethic ,Service learning	T1,T2 R1,R6	PPT
3	Civic virtue ,Respect for others ,Living peacefully	T1,T2 R1,R6	PPT
4	Sharing ,Honesty ,Courage ,Valuing time	T1,T2 R1,R6	PPT
5	Cooperation ,Commitment ,Empathy	T1,T2 R1,R6	PPT
6	Self confidence	T1,T2 R1,R6	PPT
7	Character	T1,T2 R1,R6	PPT
8	Spirituality	T1,T2 R1,R6	PPT
9	Introduction to Stress management and Emotional Management	T1	PPT

**Content beyond syllabus covered (if any):**  
Screening of NPTEL video lecture on stress and its management

\* Session duration: 50 minutes



**Sub. Code / Sub. Name:** GE16001/ PROFESSIONAL ETHICS

Unit : II

**Unit : II ENGINEERING ETHICS**

**Unit Syllabus :** 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.

**Objective:** To enable the students to create awareness on Engineering Ethics and to discuss the ethical issues related to engineering through various ethical theories.

Session No *	Topics to be covered	Ref	Teaching Aids
10	Senses of 'Engineering Ethics'	T1,T2, R1	PPT
11	Variety of moral issues	T1,T2, R1	PPT
12	Types of inquiry,Moral dilemmas	T1,T2, R1	PPT
13	Moral Autonomy , Kohlberg's theory	T1,T2, R1	PPT
14	Gilligan's theory	T1,T2, R1	PPT
15	Consensus and Controversy ,Models of professional roles	T1,T2, R1	PPT
16	Theories about right action	T1,T2, R1	PPT
17	Self-interest ,Customs and Religion	T1,T2, R1	PPT
18	Uses of Ethical Theories	T1,T2, R1	PPT

**Content beyond syllabus covered (if any):**

Role of religion in establishing ethical values

\* Session duration: 50 mins



**Sub. Code / Sub. Name:** GE16001/ PROFESSIONAL ETHICS

**Unit :** III

**Unit: III ENGINEERING AS SOCIAL EXPERIMENTATION**

**Unit Syllabus :** Engineering as Experimentation – Engineers as responsible Experimenters – Codes of Ethics – A Balanced Outlook on Law.

**Objective:** To enable the students to apply ethics in engineering experimentation and to apply the codes of ethics in engineering profession.

Session No *	Topics to be covered	Ref	Teaching Aids
19	Engineering as Experimentation	T1,T2 R2,R4	PPT
20	Engineering as Experimentation	T1,T2 R2,R4	PPT
21	As a responsible Experimenters	T1,T2 R2,R4	PPT
22	As a responsible Experimenters	T1,T2 R2,R4	PPT
23	Codes of Ethics	T1,T2 R2,R4	PPT
24	Codes of Ethics	T1,T2 R2,R4	PPT
25	Codes of Ethics	T1,T2 R2,R4	PPT
26	A Balanced Outlook on Law	T1,T2 R2,R4	PPT
27	A Balanced Outlook on Law	T1,T2 R2,R4	PPT

**Content beyond syllabus covered (if any):**

Challenger space craft disaster – A case study

\* Session duration: 50 mins



**Sub. Code / Sub. Name:** GE16001/ PROFESSIONAL ETHICS

Unit : IV

**Unit: IV SAFETY, RESPONSIBILITIES AND RIGHTS**

**Unit Syllabus :** Safety and Risk – Assessment of Safety and Risk – Risk Benefit Analysis and Reducing Risk - Respect for Authority – Collective Bargaining – Confidentiality – Conflicts of Interest – Occupational Crime – Professional Rights – Employee Rights – Intellectual Property Rights (IPR) – Discrimination.

**Objective:** To enable the students to create awareness on Safety, Responsibility and Rights.

Session No *	Topics to be covered	Ref	Teaching Aids
28	Safety and Risk – Assessment of Safety and Risk	T1,T2 R3,R4	PPT
29	Risk Benefit Analysis and Reducing Risk	T1,T2 R3,R4	PPT
30	Respect for Authority	T1,T2 R3,R4	PPT
31	Collective Bargaining	T1,T2 R3,R4	PPT
32	Confidentiality	T1,T2 R3,R4	PPT
33	Conflicts of Interest	T1,T2 R3,R4	PPT
34	Occupational Crime	T1,T2 R3,R4	PPT
35	Professional Rights	T1,T2 R3,R4	PPT
36	Intellectual Property Rights (IPR), Discrimination	T1,T2 R3,R4	PPT
<b>Content beyond syllabus covered (if any):</b> Bhopal gas tragedy – A case study			

\* Session duration: 50 mins



**Sub. Code / Sub. Name:** GE6075/ PROFESSIONAL ETHICS

**Unit :** V GLOBAL ISSUES

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**Unit Syllabus :** Multinational Corporations – Environmental Ethics – Global warming - Computer Ethics – Weapons Development – Engineers as Managers – Consulting Engineers – Engineers as Expert Witnesses and Advisors – Moral Leadership –Code of Conduct – Corporate Social Responsibility.

**Objective:** The student should be able to know about corporate, computer and environment ethics to address the Global issues.

Session No *	Topics to be covered	Ref	Teaching Aids
37	Multinational Corporations	T1,R3, R4,R5	PPT
38	Environmental Ethics	T1,R3, R4,R5	PPT
30	Global warming - Computer Ethics	T1,R3, R4,R5	PPT
40	Weapons Development	T1,R3, R4,R5	PPT
41	Engineers as Managers – Consulting Engineers	T1,R3, R4,R5	PPT
42	Engineers as Expert Witnesses and Advisors	T1,R3, R4,R5	PPT
43	Moral Leadership	T1,R3, R4,R5	PPT
44	Code of Conduct	T1,R3, R4,R5	PPT
45	Corporate Social Responsibility	T1,R3, R4,R5	PPT

**Content beyond syllabus covered (if any):**

Corporate social responsibility of a Multinational organization in India.

\* Session duration: 50 mins



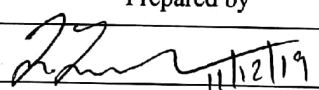
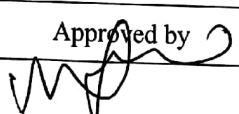
Sub Code / Sub Name: GE16001/ PROFESSIONAL ETHICS

**TEXT BOOKS:**

1. Mike W. Martin and Roland Schinzinger, "Ethics in Engineering", Tata McGraw Hill, New Delhi, 2003.
2. Govindarajan M, Natarajan S, Senthil Kumar V. S, "Engineering Ethics", Prentice Hall of India, New Delhi, 2004.

**REFERENCES:**

1. Charles B. Fleddermann, "Engineering Ethics", Pearson Prentice Hall, New Jersey, 2004.
2. Charles E. Harris, Michael S. Pritchard and Michael J. Rabins, "Engineering Ethics – Concepts and Cases", Cengage Learning, 2009
3. John R Boatright, "Ethics and the Conduct of Business", Pearson Education, New Delhi, 2003
4. Edmund G Seebauer and Robert L Barry, "Fundamentals of Ethics for Scientists and Engineers", Oxford University Press, Oxford, 2001
5. Laura P. Hartman and Joe Desjardins, "Business Ethics: Decision Making for Personal Integrity and Social Responsibility" Mc Graw Hill education, India Pvt. Ltd., New Delhi 2013.
6. World Community Service Centre, "Value Education", Vethathiri publications, Erode, 2011

	Prepared by	Approved by
Signature		
Name	Dr. J.M. Gnanasekar	<b>Dr. R. Anitha</b>
Designation	Professor	Professor and Head CSE
Date	11.12.19	11.12.19
Remarks *:		
Remarks *:		

\* If the same lesson plan is followed in the subsequent semester/year it should be mentioned and signed by the Faculty and the HOD