SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous)

Sree Sainath Nagar, A. Rangampet-517 102

Department of Information Technology

Lesson Plan cum Dairy 2016-17

Name of the Subject: Professional Ethics (14BT4HS02)

Name of the faculty Member: Mr. G. M. Chanakya

Class& Semester: III B.Tech – I Semester **Section: IT – A&B**

S. No.	Topic	No. of periods	Book(s) followed	Topics for self study
UNIT-I: ENGINEERING ETHICS				
1.	Engineering Ethics – Introduction, scope and aims	1	T1	Theories of right action, moral obligations, Piaget's theory
2.	Senses of Engineering Ethics	1	T1	
3.	Moral problems in engineering Types of inquiry, ethics and philosophy	1	T1	
4.	Moral dilemmas and steps in confronting dilemmas	1	T1	
5.	Moral residue, moral autonomy and moral absolutism	1	T1	
6.	Moral consequence and ethical egoism	1	T1	
7.	Kohlberg theory and moral development	1	T1	
8.	Gilligan's theory and moral development Consensus and controversy	1	T1	
	Total	08		
UNIT-II: PROFESSIONAL IDEALS AND VIRTUES				Professional societies, professional institutions
9.	Professional ideals and virtues - theories	1	T1	
10.	Engineering as a Profession, Professionals and Professionalism	1	T1	
11.	Qualities of Professional practitioners	1	T1	
12.	Professional Responsibility, Integrity, Self-respect	2	T1	
13.	Theories of right action	1	T1	
14.	Customs and religion	1	T1	
15.	Ethical egoism, religion and divine commands	1	T1	
16.	Use of ethical theories in resolving moral dilemmas	1	T1	
17.	Moral leadership and ethical relativism	1	T1	
	Total	**10**		
UNIT-III: ENGINEERING AS SOCIAL EXPERIMENTATION				
18.	Engineering as social	2	T1	Engineers in

	experimentation - - standard experiments and similarities			different positions in displaying code of ethics, problems with the law of engineering
19.	Learning from past, experimental control	1	T1	
20.	Experience gained and case studies	1	T1	
21.	Engineers as responsible experimenters	1	T1	
22.	Moral autonomy and accountability	1	T1	
23.	The challenger case	1	T1	
24.	Code of ethics – roles, limitations Industrial standards	1	T1	
25.	Role of law of engineering	1	T1	
	Total	**09**		
	UNIT-IV: RESPONSIBILITIES AND RIGHTS			
26.	Collegiality and Loyalty senses and professionalism	2	T1	Safety and risk, cost benefit analysis, occupational crimes
27.	Collective bargaining and argument	1	T1	
28.	Confidentiality – justification and limits	1	T1	
29.	Conflicts of interest and moral status	1	T1	
30.	Professional rights and responsibilities	1	T1	
31.	Whistle blowing and protecting whistle blowers and prevention	1	T1	
32.	The bart case	1	T1	
33.	Employee rights, privacy and drug testing	1	T1	
34.	Discrimination – definition and laws			
	Total	**09**		
	UNIT-V: GLOBAL ISSUES			
35.	Multinational corporations - rights	1	T1	Ethical audit, variety of interests, ethical problems in research
36.	Professional ethics and environmental ethics	1	T1	
37.	Computer ethics – issues	1	T1	
38.	Engineers as managers	1	T1	
39.	Engineers as consultants	1	T1	
40.	Engineers as experts and advisors	2	T1	
41.	Moral leadership and leadership in community	1	T1	
42.	Intellectual property rights	1	T1	
	Total periods required:	**09**		
	Grand total periods required:	**45**		

TEXT BOOKS:

T1. Mike W. Martin, Roland Schinzinger, "**Ethics in Engineering",** Tata McGraw-Hill, 3rd edition, 2007.

T2. Govindarajan M, Nata Govindarajan. M, Natarajan. S, Senthilkumar. V. S, **"Engineering Ethics",** Prentice Hall of India, 2004.

REFERENCE BOOKS:

R1. Dr. S. Kannan, K. Srilakshmi, **"Human Values and Professional Ethics",** Taxmann Allied Services Pvt Ltd., 2009.

R2. Edmund G. Seebauer and Robert L. Barry, **"Fundamental of Ethics for Scientists and Engineers",** Oxford University Press, 1st edition, 2001.

R3. Charles F. Fledderman, "Engineering Ethics", Pearson Education, 2004.

R4. R. Subramanaian, **"Professional Ethics",** Oxford Higher Education, 2013.