



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
(Autonomous Institution, Affiliated to Anna University, Chennai)
DEPARTMENT OF EEE



LESSON PLAN

Sub code & Name: U14BA803- PROFESSIONAL ETHICS AND HUMAN VALUES

Year / Sem : IV-YEAR A&B / VII

UNIT – I (HUMAN VALUES)				
S.NO	Topics to be covered	Duration in Min	Teaching Aid	Reff Book
1	Morals, Values and Ethics	45	BB	T1,T2,R1
2	Integrity - work Ethic	45	BB, Animation videos	T1,T2,R1, You Tube
3	Service Learning - Civic Virtue - Respect for others	45	BB, Animation videos	T1,T2,R1, You Tube
4	Living peacefully - Caring - Sharing - Honesty - Courage - Valuing time	45	BB	T1,T2,R1
5	Valuing time - Co-operation - Commitment	45	BB	T1,T2,R1
6	Empathy - Self-Confidence	45		
7	Character - Spirituality	45	BB, Animation videos	T1,T2,R1, You Tube
8	The role of engineers in modern society - social	45	BB, Animation videos	T1,T2,R1, You Tube
9	Revision	45	BB	
UNIT –II (ENGINEERING ETHICS)				
1	Sense of 'Engineering Ethics'	45	BB	T1,T2,R1
2	Variety of moral issued - types of inquiry	45	BB, Animation videos	T1,T2,R1, You Tube
3	moral dilemmas - moral autonomy	45	BB	T2,R1
4	Kohlberg's theory - Gilligan's theory	45	BB, Animation videos	T1,T2,R1, You Tube
5	Consensus and controversy	45		
6	Models of Professional Roles & Professionalism	45	BB	T2,R1,
7	Theories about right action - Self-interest	45	BB, Animation videos	T1,T2,R1, You Tube
8	customs and religion - uses of ethical theories.	45	BB	

9	Revision	45	BB	T2,R1
UNIT –III (EXPERIMENTATION ENGINEERING AND RESEARCH ETHICS)				
1	Engineering as experimentation	45	BB	T1,T2,R1
2	Engineers as responsible experimenters	45	BB	T1,T2,R1
3	Research ethics	45	BB	T1,T2,R1
4	Codes of ethics	45	BB	T1, R1
5	Industrial Standard	45	BB, Animation videos	T1,T2,R1, You Tube
6	Activity Hour (Quiz, Inquiry-based Learning)	45		
7	Balanced outlook on law	45	BB, Animation videos	T1,T2,R1, You Tube
8	The challenger case study	45	BB	T1,T2,R1
9	Revision	45	BB	
UNIT – IV (SAFETY, RESPONSIBILITIES AND RIGHTS)				
1	Safety and risk - assessment of safety and risk	45	PPT	T1, R1
2	Riysis - Risk benefit analysis and reducing risk - Govt.	45	BB, Animation videos	T1, R1
3	Regulator's approach to risks The three mile island and Chernobyl case studies & Bhopal - Threat of Nuclea	45	BB, Animation videos	T1,T2,R1, You Tube
4	Power, depletion of ozone, greenery effects	45	PPT	T1, R1
5	Collegiality and loyalty - respect for authority - collective	45	PPT	T1, R1
6	Bargaining - Confidentiality	45	PPT	T1, R1
7	conflicts of interest - occupation crime- Professional rights	45		
8	Employees' rights - Intellectual Property rights (IPR) - discrimination.	45	BB	T1, R1
9	Revision	45	BB	

UNIT – V (GLOBAL ISSUES)				
1	Multinational corporations - Business ethics - Environmental ethics	45	PPT	T1, R1
2	Computer ethics - Role in Technological Development	45	BB, Animation videos	T1,T2,R1, You Tube
3	Weapons development engineers as managers - consulting engineers	45	PPT	T1, R1
4	Engineers as expert witnesses and advisors - Honesty - leadership	45	BB	T1, R1
5	Sample code of conduct ethics like ASME, ASCE, IEEE,	45	BB	T1, R1
6	Institution of Engineers (India)	45		
7	Indian Institute of Materials Management	45	PPT	T1, R1
8	Institution of electronics and telecommunication engineers (IETE), India, etc.,.	45	BB	T1, R1
9	Revision	45	PPT	

REFERENCES

1	Mika martin and Roland Scinger, 'Ethics in Engineering', Pearson Education/Prentice Hall, New 86 York 1996.
2	Govindarajan M, Natarajan S, Senthil Kumar V.S, 'Engineering Ethics', Prentice Hall of India, New Delhi, 2004.
3	Charles D. Fleddermann, 'Ethics in Engineering', Pearson Education/Prentice Hall, New Jerssy, 2004 (Indian Reprint)
S.No	
1	Charles E Harris, Michael S. Protchard and Michael J Rabins, 'Engineering Ethics - Concept and Case', Wadsworth Thompson Learning, United States, 2000 (Indian

	Reprint now available)
2	. John R Boatright, 'Ethics and Conduct of Business', Pearson Education, New Delhi, 2003.
3	Edmund G Seebauer and Robert L Barry, 'Fundamentals of Ethics for Scientists and Engineers', Oxford University of Press, Oxford, 2001.