



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN

[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Course Code / Name : U15HS301 /Professional Ethics in Engineering

Class (Year / Programme / Department / Section): II/BE/CSE/A&B

LESSON PLAN

UNIT -1 (ENGINEERING ETHICS)				
Session No	Topic	Duration in Minutes	Teaching Aid	Book Referred
1	Senses of „Engineering Ethics“	45	BB	R2
2	Variety of moral issues	45	BB	R2
3	Types of inquiry	45	BB	R2
4	Moral dilemmas	45	BB	R2
5	Moral Autonomy	45	BB	R2
6	Kohlberg’s theory	45	BB	R2
7	Gilligan’s theory	45	BB	R2
8	Consensus and Controversy	45	BB	R2
9	Professional Ideals and Virtues	45	BB	R2
UNIT -2 (ENGINEERING AS SOCIAL EXPERIMENTATION)				
1	Engineering as Experimentation	45	BB	R2
2	Engineers as responsible Experimenters	45	BB	R2
3	Research Ethics	45	BB	R2
4	Codes of Ethics	45	BB	R2
5	Industrial Standards	45	BB	R2
6	A Balanced Outlook on Law	45	BB	R2
7	The Challenger Case Study	45	BB	R2
8	A Balanced Outlook on Law	45	BB	R2
9	Engineers as responsible Experimenters	45	BB	R2
UNIT -3 (ENGINEER’S RESPONSIBILITY FOR SAFETY)				
1	Safety and Risk	45	BB	R1
2	Risk Benefit Analysis	45	BB	R1
3	Assessment of Safety and Risk	45	BB	R1
4	Reducing Risk	45	BB	R1
5	The Government Regulator’s Approach to Risk	45	BB	R1
6	Chernobyl Case Studies	45	BB	R1
7	Bhopal	45	BB	R1
8	Risk Benefit Analysis	45	BB	R3
9	Risk	45	BB	R3
UNIT -4 (RESPONSIBILITIES AND RIGHTS)				
1	Collegiality and Loyalty	45	BB	R1
2	Respect for Authority	45	BB	R1
3	Collective Bargaining	45	BB	R1

4	Confidentiality	45	BB	R1
5	Conflicts of Interest	45	BB	R1
6	Occupational Crime	45	BB	R1
7	Professional Rights	45	BB	R1
8	Employee Rights	45	BB	R1
9	Discrimination	45	BB	R1
UNIT -5 (GLOBAL ISSUES)				
1	Multinational Corporations	45	BB	R1
2	Business Ethics	45	BB	R1
3	Environmental Ethics	45	BB	R1
4	Computer Ethics	45	BB	R1
5	Role in Technological Development	45	BB	R1
6	Weapons Development	45	BB	R1
7	Engineers as Managers	45	BB	R1
8	Consulting Engineers	45	BB	R1
9	Moral Leadership	45	BB	R1