



VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
(AUTONOMOUS)



DEPARTMENT OF INFORMATION TECHNOLOGY

Course Code / Name: U14IT725 / PROFESSIONAL ETHICS IN ENGINEERING

Class (Year / Programme / Department / Section) : IV/B.TECH/IT

LESSON PLAN

UNIT I (ENGINEERING ETHICS)				
Session No	Topic	Duration In Minutes	Teaching Aid	Book Referred
1	Senses of Engineering Ethics	45	BB&PPT	R1
2	Variety of moral issues	45	BB&PPT	R1
3	Types of inquiry	45	BB&PPT	R1
4	Moral dilemmas	45	BB&PPT	R1
5	Moral Autonomy	45	BB&PPT	R1
6	Kohlberg's theory and Gilligan's theory	45	BB&PPT	R1
7	Consensus and Controversy	45	BB&PPT	R1
8	Professions and Professionalism	45	BB&PPT	R1
9	Professional Ideals and Virtues	45	BB&PPT	R1
10	Uses of Ethical Theories	45	BB&PPT	R1
UNIT II (ENGINEERING AS SOCIAL EXPERIMENTATION)				
1	Engineering as Experimentation	45	BB&PPT	R1,R2
2	Engineers as responsible Experimenters	45	BB&PPT	R1,R2
3	Research Ethics	45	BB&PPT	R1,R2
4	Codes of Ethics	45	BB&PPT	R1,R2

5	Industrial Standards	45	BB&PPT	R1,R2
6	A Balanced Outlook on Law	45	BB&PPT	R1,R2
7	The Challenger Case Study	45	BB&PPT	R1,R2
UNIT III (ENGINEER'S RESPONSIBILITY FOR SAFETY)				
1	Safety and Risk	45	BB&PPT	R1,R2
2	Assessment of Safety and Risk	45	BB&PPT	R1,R2
3	Risk Benefit Analysis	45	BB&PPT	R1,R2
4	Reducing Risk	45	BB&PPT	R1,R2
5	The Government Regulator's Approach to Risk	45	BB&PPT	R1,R2
6	Chernobyl Case Studies and Bhopal	45	BB&PPT	R1,R2
UNIT IV (RESPONSIBILITIES AND RIGHTS)				
1	Collegiality and Loyalty	45	BB&PPT	R1,R2
2	Respect for Authority	45	BB&PPT	R1,R2
3	Collective Bargaining	45	BB&PPT	R1,R2
4	Confidentiality	45	BB&PPT	R1,R2
5	Conflicts of Interest	45	BB&PPT	R1,R2
6	Occupational Crime	45	BB&PPT	R1,R2
7	Professional Rights	45	BB&PPT	R1,R2
8	Employee Rights	45	BB&PPT	R1,R2
9	Intellectual Property Rights (IPR)	45	BB&PPT	R1,R2
10	Discrimination	45	BB&PPT	R1,R2
UNIT IV (GLOBAL ISSUES)				
1	Multinational Corporations	45	BB&PPT	R1,R2
2	Business Ethics	45	BB&PPT	R1,R2
3	Environmental Ethics	45	BB&PPT	R1,R2

4	Computer Ethics	45	BB&PPT	R1,R2
5	Role in Technological Development	45	BB&PPT	R1,R2
6	Weapons Development	45	BB&PPT	R1,R2
7	Engineers as Managers	45	BB&PPT	R1,R2
8	Consulting Engineers	45	BB&PPT	R1,R2
9	Engineers as Expert Witnesses and Advisors	45	BB&PPT	R1,R2
10	Honesty	45	BB&PPT	R1,R2
11	Moral Leadership	45	BB&PPT	R1,R2
12	Sample Code of Conduct	45	BB&PPT	R1,R2