PVP-19

ENGINEERING ETHICS

Course Code	19MC1601	Year	III	Semester	II
Course Category	Mandatory Course	Branch	ECE	Course Type	Theory
Credits	0	L-T-P	3-0-0	Prerequisites	--
Continuous Internal Evaluation:	100	Semester End Evaluation:	--	Total Marks:	100

Course Outcomes	
Upon successful completion of the course, the student will be able to	
CO1	Improve knowledge of ethics
CO2	High sense of responsibility
CO3	Environmental awareness
CO4	Professional outlook
CO5	Developing a broad culture.

Mapping of course outcomes with Program outcomes (CO/ PO/PSO Matrix)
Note: 1- Weak correlation   2-Medium correlation   3-Strong correlation
       * - Average value indicates course correlation strength with mapped PO

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1								3				2		
CO2								3				3		
CO3								3				3		
CO4								3				1		
CO5								3				2		
Average* (Rounded to nearest integer)								3				3		

Syllabus		
Unit No.	Contents	Mapped CO
I	Engineering ethics – Definition, Three types of Engineering ethics Rights and responsibilities of an engineer, Evolution of engineering ethics	CO1
II	Code of ethics, Kohlberg's theory, Gilligan's theory	CO1, CO2
III	Engineering as social experimentation Engineer's social responsibility Technological Optimism: The promise Of Technology	CO1, CO3
IV	Computer ethics, Ethical hacking, Computer Privacy Impact of globalization on Computer ethics	CO1, CO4
V	Environmental ethics. and its significance, Sustainable Development, Technology assessment	CO1, CO4,CO5

Learning Resources
Reference Books
1. Ethics in engineering: Mike W.Martin Roland, Mac Grow Hill.Schinzinger
2. Engineering ethics-----M.Govindarajan, S.Natarajan & V.S.Senthil Kumar. Eastern economy Edn. PHI
3. Engineering ethics---Harris pitch and Rabbins, Cengage.
4. Caroline whit back---Ethics in engineering practice and research: Cambridge.
e- Resources & other digital material
1. 1. http://nptel.ac.in/courses.php
2. http://jntuk-coeerd.in/