

## ENGINEERING ETHICS

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

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

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<b>Mapping of course outcomes with Program outcomes (CO/ PO/PSO Matrix)</b>														
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
<b>CO1</b>								3				2		
<b>CO2</b>								3				3		
<b>CO3</b>								3				3		
<b>CO4</b>								3				1		
<b>CO5</b>								3				2		

<b>Syllabus</b>		
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

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<b>Learning Resources</b>
<b>Text Books</b>
<b>Reference Books</b>
<ol style="list-style-type: none"> <li>1. Ethics in engineering: Mike W.Martin Roland, Mac Grow Hill.Schinzinger</li> <li>2. Engineerinethics-----M.Govindarajan, S.Natarajan&amp;V.S.Senthil Kumar.</li> <li>3. Eastern economy Edn.PHI</li> <li>4. Engineering ethics---Harris pitch and Rabbins, Cengage.</li> <li>5. Caroline whit back---Ethics in engineering practice and research: Cambridge.</li> </ol>
<b>e- Resources &amp; other digital material</b>
<ol style="list-style-type: none"> <li>1. <a href="http://nptel.ac.in/courses.php">http://nptel.ac.in/courses.php</a></li> <li>2. <a href="http://jntuk-coeerd.in/">http://jntuk-coeerd.in/</a></li> </ol>

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