

# H-Form ISE 203

Course Information:	
<b>Code and Title:</b>	ISE 203 Engineering Ethics
<b>Prerequisites:</b>	-
<b>Co requisite (if any)</b>	-
<b>Credit Hours: 2</b>	Lecture Hrs. (30), Tutorial Hrs. ( ), Lab (0), <b>Total Credits ( 30 )</b>
<b>College/ Department:</b>	College of Engineering/Industrial and Systems Engineering

Course Description:
The Engineering Ethics course provides a comprehensive introduction to the ethical dimensions of the engineering profession. It covers key topics such as ethics and professionalism, codes of ethics from organizations like the National Society of Professional Engineers (NSPE) and the Saudi Council of Engineers (SCE). The course also explores Computer Ethics, including considerations related to data, software, intellectual property, privacy, and inappropriate access. Environmental ethics, with a focus on sustainable development, is integrated into the curriculum. The course concludes with in-depth case studies, offering practical insights into ethical decision-making, particularly in instances of catastrophic engineering failures.

Course Objectives:
After completing the course, the student will be able to:
Recognize the impact of engineers' decisions on the society and the environment, identify the rules of practice for Engineering Profession, practice Engineering Professional Obligations and Develop needs for sustainable Development ethical codes.

Course Learning Outcomes		
		PLO
Knowledge Understanding		
1.1	Describe key moral canons and concepts relevant to research and practice in engineering	K1
1.2	Recognize unethical research and unethical practice in engineering.	K3
Skills		
2.1	Develop ethical concepts for new kinds of cases in engineering	S1
2.2	Analyse the codes of professional society in the fields of engineering	S4
Values		
3.1	Judge engineering decisions considering sustainable development principles.	V2

Textbook:			
<b>Title:</b>	Ethics in Engineering: Practice and Research		
<b>Author(s):</b>	Caroline Whitbeck,		
<b>Publisher:</b>	Cambridge University Press,	<b>Year and Edition:</b>	2nd Edition, 2011.
<b>Other Useful Resources:</b>			