

H-Form ISE 201

Course Information:	
Code and Title:	ISE 201 Engineering Drawing
Prerequisites:	-
Co requisite (if any)	-
Credit Hours: 3	Lecture Hrs. (15), Tutorial Hrs. (0), Lab (60), Total Credits (75)
College/ Department:	College of Engineering/Industrial and Systems Engineering

Course Description:
The Engineering Drawing course encompasses fundamental and advanced topics crucial for effective engineering visualization and communication. Starting with basics like geometrical construction and isometric drawing, the course progresses to more advanced concepts such as orthogonal projection theory, dimensioning, sectioning, and auxiliary views. Special attention is given to developing freehand sketching skills. Additionally, the course introduces students to Computer-Aided Design using the SOLIDWORKS package, ensuring a practical application of learned concepts. Overall, the course provides a comprehensive foundation in engineering drawing, preparing students for practical application in design and visualization tasks.

Course Objectives:
This course is intended to cover theory and practical techniques of engineering drawing. In addition, it teaches the use of the SOLIDWORKS package as a CAD tool in making engineering drawings.

Course Learning Outcomes		
		PLO
Knowledge Understanding		
1.1	Recognize the concepts and basic principles of engineering drawing, including using tools, orthographic views, hidden lines, sectional views.	K1
1.2	Identify relationships between components and views.	K1
Skills		
2.1	Develop engineering drawing sketches and views of an object.	S1
2.2	Predict third view in engineering drawings.	S1
2.3	Demonstrate the sectioning techniques to create clear and interpretable drawing sections.	S2
Values		
3.1	Operate and Provide a 3D models meet all requirements effectively in a team.	V1

Textbook:			
Title:	Technical Drawing with Engineering Graphics		
Author(s):	Frederick E. Giesecke		
Publisher:	Pearson	Year and Edition:	15th Edition, 2016.
Other Useful Resources:	Technical Drawing with Engineering Graphics, 14th Edition, Frederick E. Giesecke, Pearson, 2014		