

H-Form ISE 471

Course Information:	
Code and Title:	ISE 471 Capstone Design Project (1)
Prerequisites:	Completing 139 credits
Co requisite (if any)	
Credit Hours: 2	Lecture Hrs. (30), Tutorial Hrs. (15), Lab (0) Total Credits (45)
College/ Department:	College of Engineering/Industrial and Systems Engineering

Course Description:
Senior students select a design project and apply learned tool and knowledge to design process, components, and/or system of the production system; Students develop work plan, identify the problem, formulate the problem through reviewing background and integrating knowledge; prepare for/or preliminary conducting of the experiments, Collect the field data, develop the mathematical model if applicable; and writing a report stating preliminary findings.

Course Objectives:
This course prepares the senior students to carry a production design project for process, product, component, and/or system on the basis of the learned knowledge reflecting the industrial engineering program objectives.

Course Learning Outcomes		
		PLO
Knowledge Understanding		
1.1	Review related data, knowledge and experiences from credible sources.	K1
1.2	Identify project problem and statement based on realistic needs and relative constraints.	K3
Skills		
2.1	Formulate problem covering methodology of integrating knowledge drawn from previous courses.	S1
2.2	Plan Project effectively using project planning techniques to ensure proper project timing and budgeting	S3
2.3	Communicate orally and writing the project design details in technical report	S5
Values		
3.1	Participate effectively in a team to formulate a real-life problem model and suggest the solution by applying lessons of Special Topics in Systems Engineering	V1

Textbook:			
Title:	To be determined upon needs		
Author(s):			
Publisher:	-	Year and Edition:	
Other Useful Resources:			