



H-Form ISE 362

Course Information:	
Code and Title:	ISE 362 Manufacturing Economics
Prerequisites:	ISE 361
Co requisite (if any)	-
Credit Hours: 3	Lecture Hrs. (45), Tutorial Hrs. (0), Lab (15), Total Credits (60)
College/ Department:	College of Engineering/Industrial and Systems Engineering

Course Description:
The ISE 362 Manufacturing Economics course introduces the students to the manufacturing economics, labor cost analysis, materials cost analysis, overhead cost calculations, operation cost estimating, product cost estimating, product pricing.

Course Objectives:
This course introduces the students to the concept of the manufacturing economics principles and concepts. Also, introduce the different methods of manufacturing labor and material cost analysis. Teach the students the necessary knowledge about the operation cost estimating and apply various operation cost estimating techniques, the product cost estimating and apply various product cost estimating techniques, the different ways for calculating the manufacturing overhead cost and know how to use them, how to apply different methods of product pricing and how to develop production budgeting and know how to write production budgeting and performance reports. Introduces the students to engineering contracts and know how to write engineering contracts.

Course Learning Outcomes		
		PLO
Knowledge Understanding		
1.1	Identify the necessary knowledge about the manufacturing economics principles and concepts.	K2
1.2	Recognize the operation cost estimating by applying various operation cost estimating techniques.	K3
Skills		
2.1	Apply different methods of manufacturing materials cost analysis, and different ways for calculating the manufacturing overhead cost.	S1
Values		
3.1	Judge the different procedures of product pricing and production budgeting to finalize the engineering contracts.	V2

Textbook:			
Title:	Cost Analysis and Estimating for Engineering and Management,		
Author(s):	Ostwald, P. and McLaren, T.,		
Publisher:	Pearson Prentice Hall,	Year and Edition:	2004
Other Useful Resources:			