

H-Form ISE 361

Course Information:	
Code and Title:	ISE 361 Work and Process Improvement
Prerequisites:	ISE 221
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 Work and Process Improvement course provides an introduction to the principles of work analysis and design, encompassing methods engineering. The curriculum delves into the study of basic work measurement techniques, exploring the applications and limitations of methodologies such as stop-watch time study and pre-determined motion time systems. Students gain insights into optimizing work processes and enhancing efficiency through systematic analysis and improvement methodologies.

Course Objectives:
After completing the course, the student will:
Learn how to observe work in a systematic and disciplined way with the general objective of improving work methods and working conditions. Also, students will be familiar with time study, work sampling and pre-determined time systems. As well, they will be able to establish a valid performance standard data.

Course Learning Outcomes		
		PLO
Knowledge Understanding		
1.1	Describe flow process chart, process mapping and man machine activity charts	K2
1.2	Recognize the importance of studying the entire system or process of doing work before undertaking a thorough investigation of a specific operation in the process.	K3
Skills		
2.1	Establish a specialized operation to identify and implement process or layout improvements.	S1
2.2	Conduct process time study using direct methods, performance rating and allowances.	S2
2.3	Evaluating and compare alternative work methods	S4
Values		
3.1	Work effectively on a team.	V1

Textbook:			
Title:	Work Systems and the Methods, Measurement, and Management of Work,		
Author(s):	Groover, Mikell P		
Publisher:	Prentice Hal	Year and Edition:	2014
Other Useful Resources:			