

Jordan University of Science and Technology Faculty of Engineering Industrial Engineering Department

IE346 Work Measurement And Analysis

Summer Semester 2019-2020

Course Catalog

3 Credit Hours. Methods study, Time study and Job evaluation. Techniques of good methods study. Work station design using ergonomic principles. Job description and evaluation. Techniques of scientific time study. Standard basic times and work sampling are presented

Text Book			
Title	Motion and time study for lean Manufacturing, 3rd ED., Prentice Hall		
Author(s)	F. Meyers, and J. Stewart (2002)		
Edition	3rd Edition		
Short Name	ref1		
Other Information			

Instructor		
Name	Dr. Samir Khrais	
Office Location	-	
Office Hours		
Email	khrais@just.edu.jo	

Class Schedule & Room

Section 1: Lecture Time: Sun, Mon, Tue, Wed : 13:00 - 14:30 Room: منصة الكترونية

Prerequisites			
Line Number	Course Name	Prerequisite Type	
902030	MATH203 Ordinary Differential Equations	Prerequisite / Study	

Tentative List of Topics Covered			
Weeks	Weeks Topic		
Weeks 1, 2	Introduction and History of Motion and time Study	From ref1	
Weeks 3, 4	Importance and use of MTS		
Weeks 5, 6	Macromotion Study		
Weeks 7, 8	Micromotion Study	From ref1	
Week 9	Motion Economy	From ref1	
Weeks 9, 10, 11	Predetermined Time Standard	From ref1	
Weeks 12, 13	Stopwatch time study	From ref1	
Weeks 13, 14	Standard data and Line balancing	From ref1	
Weeks 15, 16	Work sampling	From ref1	

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
An ability to Understand the role of Industrial Engineer in the organization and using systematic approaches for analyzing, modeling and solving production related problems [1SLO4]	25%	
An ability to Demonstrate ability to seek further knowledge and specialized skills in Lean Methodology [1SLO4]	25%	
Ability to use systematic approaches for analyzing, modeling and solving production related problems [1SLO4]	25%	
Ability to work station design using ergonomic principles and utilize knowledge and techniques attained for scientific time study and good method study [1SLO4]	25%	

Relationship to Program Student Outcomes (Out of 100%)						
SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	SLO7
			100			

Evaluation		
Assessment Tool	Weight	
First Exam	30%	

Second Exam	30%
Final Exam	40%

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