



Advanced Methods in Design and Work Measurement (IE 635)

A. Instructor

Tamer Khalaf, Ph.D., Assistant Professor

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Office : Department of Industrial Engineering, Room # 2A 123/2.
Class Time : Monday, 5:00 to 8:00 PM
Office hours : Posted at my office's door

B. Reference Books

1. *Work Systems: The Methods, Measurement & Management of Work*; Mikell P. Groover; Prentice Hall; 2006.
2. *Methods, Standards and Work Design*; Benjamin W. Niebel and Andris Freivalds; 11th ed; McGraw Hill; 2003.
3. *Motion and Time Study for Lean Manufacturing*; Fred E. Meyers and Jim R. Stewart; 3rd Ed.; Prentice Hall; 2002.
4. *Motion and Time Study; Design and Measurement of Work*; Ralph M. Barnes, 7th Ed., John Wiley & Sons; 1980.

C. Reference Journals

- ✓ International Journal of Industrial Engineering & Production Research
- ✓ IIE Transactions
- ✓ Journal of Industrial Engineering and Management
- ✓ Ergonomics
- ✓ Applied Ergonomics

D. Course Description

See catalog

E. Course Project

Students are to select a real life problem (job), make a full literature review and analysis of the chosen problem (job), develop a scientific discussion, propose improvements supported by evidence from the literature, and produce a full report. You may design an experiment to examine your proposed improvements.

F. Grades

	Course Activity	Designated points	Due Dates
1.	Midterm Exam	20 points	Week 12
2.	Course Project	40 points	Week 15
3.	Final	40 points	TBA
	Total	100 points	