

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

ME304 Engineering Economics And Management

First Semester 2021-2022

Course Catalog

2 Credit Hours. Two credit hours (2h lectures). This course introduces the concepts of time value of money, interest formulas, judging attractiveness of proposed investments using different methods, depreciation, inflation, increment cost and PM.

	Text Book
Title	1. G. J. Thuessen and W. J. Fabrycky, Hamdy (2001). Engineering Economy, 9" edition. Prentice Hall International edition.
Author(s)	G. J. Thuessen and W. J. Fabrycky, Hamdy
Edition	9th Edition
Short Name	Engineering Economy,
Other Information	

Course References

Short name	Book name	Author(s)	Edition	Other Information
Principles of Engineering, Economy"	E. L. Grant, W. G. Ireson, and R. S. Leavenworth, "Principles of Engineering, Economy" 8th Edition, Wiley, 1990.	E. L. Grant, W. G. Ireson, and R. S. Leavenworth	8th Edition	
Engineering Economy	L. T. Blank and A. Tarquin, "Engineering Economy", 5th edition, McGraw-Hill, 2002.	L. T. Blank and A. Tarquin	5th Edition	
Text Book	Engineering Economy	W.G.Sullivan, E.M. Wicks, and C.Patrick Koelling	15th Edition	

	Instructor
Name	Mrs. Maysa Khaleel

Office Location	-
Office Hours	
Email	mfkhaleel@just.edu.jo

Class Schedule & Room

Section 1:

Lecture Time: Sun, Tue: 17:00 - 18:00

منصة الكترونية :Room

Section 2:

Lecture Time: Sun, Tue: 19:00 - 20:00

منصة الكترونية :Room

Prerequisites						
Line Numl	ber	Course Name	Prerequisite Type			
902010		MATH201 Intermediate Analysis	Prerequisite / Study			

Tentative List of Topics Covered							
Weeks	Topic	References					
Weeks 1, 2, 3, 4	Time Value of Money (Interest Formulas)	chapter4 From Text Book					
Weeks 5, 6, 7	Evaluating a single project	chapter5 From Text Book					
Weeks 8, 9, 10	Comparison and Selection among alternatives	chapter6 From Text Book					
Weeks 11, 12	Cost Concepts	chapter2 From Text Book					
Weeks 13, 14	Depreciation and Income Taxes	chapter7 From Text Book					
Weeks 15, 16	PM						

Mapping of Course Outcomes to Program Student Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Develop cash flow diagrams for investments and evaluate their worth [1SLO1, 1SLO7]	30%	
Analyze the effect of inflation on an investment [1SLO1, 1SLO4]	10%	
Determine the economic feasibility of engineering projects and investments [1SLO1, 1SLO4]	20%	
Apply principles of accounting and evaluate the depreciation charges using different methods [1SLO1, 1SLO4, 1SLO7]	20%	
Apply break-even analysis to make decisions in production operations [1SLO1, 1SLO7]	10%	
Find the critichal path for a simple engineering project [1SLO1, 1SLO7]	10%	

	Relationship to Program Student Outcomes (Out of 100%)																
Α	В	С	D	Е	F	G	Н	I	J	K	SLO1	SLO2	SLO3	SLO4	SLO5	SLO6	SLO7
											46.67			21.67			31.67

Evaluation						
Assessment Tool	Weight					
MID Exam	30%					
Final Exam	50%					
Quiz	20%					

	Policy
Attendance	since the course is synchronous attendance, Attendance will be checked at the end of each class. University regulations will be strictly followed for students exceeding the maximum number of . No make-up test will be given without an official university-approved excuse.
Student Conduct	It is the responsibility of each student to adhere to the principles of academic integrity. Academic integrity means that a student is honest with him/herself, fellow students, instructors, and the University in matters concerning his or her educational endeavors. Cheating will not be tolerated in this course. University regulations will be pursued and enforced on any cheating student.

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