University of Jordan	
Faculty of Business	
Department	Department of Business Management
Program	Under graduate
Module title / number	Operations Research
Teaching staff	Prof. Sulaiman Obaidat
Office location	Building 4 first floor
Phone	24244
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Office hours	
Pre-requisite	
Module description	
Aims	**COURSE OBJECTIVES:** The course aims at providing the students with he basic concepts of some quantitative methods in decision making with more emphasis on managerial decisions and practices .
Subject Specific Skills	
	- At the end of the course the students will be able to: - -realize the different models, their assumptions, advantages, and limitations. - -Know when to use a specific model.
Core academic Skills:	
	- At the end of this course students are expected to gain knowledge and skills about the operations research models and their applicability.
Teaching and learning methods	
	- Lectures, and group discussions
Personal and Key Skills:	
	At the end of this course students are expected to know: - How to use the operations research models in the decision making process. - How to obtain the result and to verify.
Assessment methods	
	- Mid Term: 30% - Second Exam 10% - Assignment 10% - Final Exam 50%

Academic Honesty			
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Main textbook(s) and additional readings			
	Barry Render Ralph M. Stair Jr., and Michael E. Hanna, Quantitative Analysis for Management, Prentice Hall (2006)		
Detailed lecture schedule			
	Week:	**Material:**	**Homework and Assignments**
	Week 1+2	Introduction to Quantitative Analysis	
	Week 3+4	Fundementals of Decision Theory Models	
	Week 5+6	Decision Trees	
	Week 7+8	linear programming: The Graphical methods	
	Week 9+10	Linear programming: The Simplex method including sensitivity and duality	
	Week 11+12	Transportation and Assignment Models	
	Week 13+14	Project management	