Fundamental of Operation Research 2023

Professor: Koorush Ziarati (ziarati@shirazu.ac.ir)
Teacher Assistances : Milad Barooni

Lecture #1	Course Introduction	
Lecture #2	Introduction to Optimization	
Lecture#3	LinearProgramming	
	Modeling	
Lecture #4	Modeling I	
Lecture #5	Modeling I	
Lecture #6	Modeling III	
Lecture #7	Modeling IV	
Lecture#8	Modeling V	
	Solving Linear Programming (Simplex)	
Lecture#9	Linear Programming	
Lecture#10	Simplex I	
Lecture#11	Simplex II	
Lecture#12	Simplex III	
Lecture # 13	Sensitivity Analysis	
Lecture # 14	Excel Solver (Presentation)	
Lecture # 15	Dual Problem I	
Lecture #16	Dual Problem II	
Exam MidTerm		
	Network Flow Models/Algorithm	
Lecture#17	Introduction to Network Flow	
Lecture#18	Network Modeling I	
Lecture#19	Network Modeling II	
Lecture#20	Transportation Problem Model Algorithm	
Lecture#21	Transportation Problem Model Algorithm	
Lecture#22	Assignment Problem Model Algorithm	
Lecture#23	TransshipemenProblem Model Algorithm	
Lecture#24	Minimum Cost Flow Problem Model Algorithm	
Lecture#25	Maximum Flow Problem	
Lecture#26	Critical Path method	
Lecture#27	Project Management time/cost	
Lecture#28	Questions	
Exam Final		

Evaluation:---------------------------------------
Hws   03 + 1 points
Exam Midterm   07 points
Final Exam   10 points
Text Book :--
1. Introduction to Operations Research, F.S. Hillier, G.J. Liebeman
2. Operations Research An Introduction, H.A.Taha,
3. Applied Mathematical Programming, S.P. Bradly,A.C. Hax,T.L. Magnenti
4. Linear Programming And Network Flow, M. S. Bazaraa, J.J. Jarvis, H.D. Sherali