



Course Weekly Outline

Course Instructor	Maha Abdulkareem Hammod				
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Title	Operations Resrarch				
Course Coordinator	year				
Course Objective	The main objective is to explain the mathematical models of OR and its various applications in different fields.				
Course Description	Linear Progr., Graphical Method, Simplex method, Big-M & two Phases Techniques, Transportation, Network Analysis, Game theory, inventory models, integer prog., simulation.				
Textbook	Taha, H., Operation Research, 2010				
References	بحوث العمليات وتطبيقاتها، هلال هادي واخرون 1990				
Course Assessment	Term Tests	Laboratory	Quizzes	Project	Final Exam
	30%	--	(10%)	----	(60%)
General Notes					



Course weekly Outline

week	Date	Topics Covered	Lab. Experiment	Notes
1	9/30	Introduction to OR		
2	10/7	---		
3	10/14	L.P. Formulation		
4	10/21	Graphical Method		
5	10/28	Simplex method		
6	11/4	Applications		
7	11/11	Big-M Technique		
8	11/18	Applications		
9	11/25	Two – Phases Tech.		
10	12/2	Applications		
11	12/9	Duality		
12	12/16	Dual Simplex Method		
13	12/23	Properties between Primal & Dual		
14	12/30	Sensitivity Analysis		
15	1/6	Test		
16				
Half-year Break				
17	2/10	Transportation Models		
18	2/17	Transportation Models		
19	2/24	Applications		
20	3/3	Game Theory		
21	3/10	Game Theory		
22	3/17	Network Analysis		
23	3/24	Gantt Charts		
24	3/31	Applications		
25	4/7	Integer Progr.		
26	4/14	Integer Progr.		
27	4/21	Inventory Models		
28	4/28	2 nd . Course Test		
29	5/5	Simulation		
30	5/12	Simulation		
31	5/19	Applications		
32	5/26	Applications		

Instructor Signature:

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