EM 602- MANAGEMENT SCIENCE

Dr. Layek Malek

Fall 2013

TEXT (**Recommended, most homework assignment is according to the 9th Edition):** Taha, H., Operations Research: An Introduction, 9th^h Edition, Prentice Hall, 2011

Office Hours:	Monday& Thursday 4:30 – 5:30 or by appointment
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*Lectures	SUBJECT
1	Introduction to Management Science
2	Linear Programming; Problem formulation
3	The Simplex Method, and the big M Method
4	Duality and sensitivity analysis
5	The transportation and assignment problems
6	Shortest Path Algorithms
7	Dynamic Programming
8	Deterministic Inventory Models
9	Deterministic Inventory Models (continued)
10	Stochastic Inventory Models
11	Queuing Theory, Introduction
12	$M/M/1/\infty$ Systems and $M/M/C/K$ Systems
13	Management Science in perspective

*Approximate (The equivalent of two classes is for tests)

Grading:

Midterm 33% Final 33% Class work 34%