## Course Syllabus: Fall 2015

1. Course Title	Management Science	e 41622-02	
2. Class Time	Management Science 41622-02           Class 02 – Wed, 19:00 A.M 21:50 A.M.		
3. Class Place	- Building 309, Room: 103		
4. Instructor	Name	Bonghyun Ahn	
7. Instructor	Office	outside of campus	
	E-mail		
	Phone		
	Office Hours Before	> /after class	
5 Commo Obiostimos			
5. Course Objectives	<ul> <li>This course provides an introduction to Management Science. This course covers many approaches to solving business problems from managerial point of view. Various optimization techniques are surveyed with an emphasis on the why and how of these types of models as opposed to a detailed theoretical approach. Students develop optimization models which relate to their areas of interest. Spreadsheets and some related SW are used extensively to accomplish the mathematical manipulations. Emphasis is placed on input requirements and interpretation of results More specifically, upon completing this course a student should be able to: <ul> <li>Explain how and why modeling is used in the support system environment.</li> <li>Identify and differentiate different model components.</li> <li>Understand and explain the modeling process and be able to apply it in a variety of different business situations.</li> <li>Compare and contrast different decision structuring techniques and to use these techniques to analyze various situations.</li> <li>Evaluate models applying good modeling and validation techniques.</li> <li>Implement model-based management solution using Computer SW.</li> <li>Develop and demonstrate presentation skills and be able to post reports to</li> </ul></li></ul>		
	the manager.		
6. Course Material	Textbook		
	- ISBN-13 - ISBN-10 - Author : - Publishe - <u>http://bo</u> Materials (Reference - Class No complete posted. S during c Software: - Microso	otes (i.e., Course Outlines) will be posted online. Note that the e class notes (with solutions for in-class examples) will NOT be Students are required to fill in the blanks in their own class notes lass hours ft Excel, QM & LINDO: Linear Programming Software	
	- Crystal I	Ball will be required tools for simulation modeling. Trial version r 30 days) is available for free download.	

7. Grading Policy	The final grade is determined by assigning the following percentage scores:					
	Mid-term Exam	30%				
	Final Exam	35%				
	Assignments	10% (Every Week)				
	Quizzes	15% (maybe 2)				
	Class Participation/Attendance	10%				
	The following is a basic guideline of letter grades:					
	Top 15% or above	A+				
	Top 15% - 35%	Α				
	Тор 35% - 50%	B+				
	Top 50% - 70%	В				
	Top 70% - 90%	C+				
	Top 90% - 95%	С				
	Top 95% or below	D+, D, F				
8. Class Policies		assigned. It is important that each	ach student work on			
	each problem set independently.					
	- <b>Quizzes</b> will be given with announcement. It is recommended not to miss the					
	classes to take the quizzes. Very simple questions will be asked to measure the students' attendance and class participation					
	students' attendance and class participation.					
	- <b>Exams</b> cover class lectures, discussions, homework problems, and required readings. Exams must be taken on the scheduled date. If you feel you have a					
	legitimate excuse for missing an exam, please notify me in advance. Students					
	missing more than one exam will be given an "F" for the course without any					
	exception. A missed exam for any reason not deemed legitimate results in a score					
	of zero. Likewise, dishonesty on any exam also results in a score of zero, and					
	possibly, a failing grade for the course.					

Week (Date)	Topic	Detailed Outline	Chapter	Assignments
1	<ul> <li>Orientation &amp;</li> </ul>	- Course Introduction and Overview;	Chapter 1	TBA
	Linear	- The MS Approach to Problem Solving.	Chapter 2	
(2.Sep)	<b>Programming:</b>	- MS Modeling Techniques.		
	<b>Model Formulation</b>	- Model Formulation.		
	and Graphical	- Maximization/Minimization Model Examples		
	Solution	- Graphical Solution of Linear Programming(LP)		
		Models		
		- Irregular Types & Characteristics of LP Problems		
2	Linear	- Computer Solution using by SW	Chapter 3	TBA
	<b>Programming:</b>	- Sensitivity Analysis		
(9. Sep)	<b>Computing Solution</b>			
/	and Sensitivity			
	Analysis			
3	Linear	- Simplex Method	Module A	TBA
	<b>Programming:</b> The			
(16. Sep)	Simplex Method			
4	Integer	- Integer Programming(IP) Models	Chapter 5	TBA
	Programming	- IP Graphical Solution	Module C	
(23. Sep)		- Computer Solution of IP Problems with SW		
		- 0-1 IP Modeling Examples		
5	<ul> <li>Transportation,</li> </ul>	- The Transportation Model	Chapter 6	TBA
	<b>Transshipment And</b>	- The Transshipment Model	Module B	
(30.Sep)	Assignment	- The Assignment Model		
	Problems	- Computer Solution of the Transportation,		
		Transshipment, Assignment Problems		
6	Network Models	- Network Components	Chapter 7	TBA

Programming- The Minimal Spanning Tree Problem - The Maximal Flow Problem - Nonlinear Programming107• Linear Programming: Modeling Example - A Diet Example - A Marketing Example - A Multi-period Scheduling Example - A Blend Example - A Multi-period Scheduling Example - A Bud Example - A Data Envelopment Analysis(DEA) ExampleTBA8Mid-term Exam-9• Multi-criteria Decision Making - Computer Solution of GP - Computer Solution of GP Problems with SW - The Analytical Hierarchy Process(AHP) - Scoring ModelChapter 910• Decision Analysis - Decision Making With Probabilities - Decision Making with Probabilitie		<ul> <li>Nonlinear</li> </ul>	- The Shortest Route Problem	Chapter	
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	(25. Nov)		- Undefined and Constant Service Times		
- Finite Queue Length					
- Finite Calling Population					
- The Multi-Server Waiting Line					
- Additional Types of Queuing Systems					
14         - Simulation         - The Monte Carlo Process         Chapter         TBA	14	<ul> <li>Simulation</li> </ul>			ТВА
- Computer Simulation with SW 14				14	
(2.Dec) - Simulation of a Queuing System	(2.Dec)				
- Continuous Probability Distributions					
- Statistical Analysis of Simulation Results					
- Verification of the Simulation Model					
- Areas of Simulation Application       15     • Wran-un & Review       Class Wran-up and Review					
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16 Final Exam	16	Final Exam			