

Outline • AML&SCM / Learning Outcomes • Objectives / Module Content • Lecturer • Timetable • Assessment • Literature



Learning Outcomes - Objectives



- To analyse the efficiency and productivity of business firms:
- To evaluate and define "challenges" in a concise, precise and logical manner;
- To apply a selected number of classical and state-of-the art Operational Research methods and tools to solve supply chain problems analytically;
- To create solution models and algorithms that offer competitive advantage to the businesses;
- To provide results to the management for decision making and implementation.

ML8SCM

Logistics & Inventory MRAPA MRAPA

Module Content



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Some of the topics that will be covered

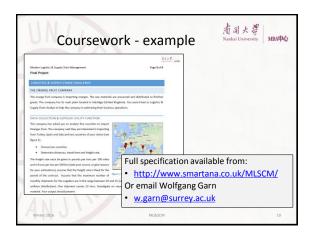
- Linear Programming
 - e.g. transportation optimisations
- Network Analysis
 - e.g. Shortest Route, minimal spanning tree
- Inventory Systems
 - e.g. Economic Order Quantity model
- Simulations and Waiting Line Models
 - e.g. Multiple Server Waiting Line

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	Literature	Nankai University MBAP	
Ess	sential Reading		
:	Garn, W., (2010). Issues in Operations Management. Pearson Education. Ghiani, G., Laporte, G., and Musmanno, R. (2004). Introduction to Logistics Systems Planning		
	and Control, Wiley.		
•	Heizer, J. and Render, B., (2010). Operations Management, 10th Edition. Prentice Hall.		
•	Verma, R. and Boyer, K., (2010). Operations & Supply Chain Mana	gement, South Western.	
Re	commended Reading		
•	Ahuja, R.K., Magnanti, T.L., and Orlin, J.B., (1993). Network Flows. Prentice Hall.		
•	Altiok, Tayfur and Melamed, Benjamin, (2007). Simulation modeli Academic Press	ing and analysis with Arena.	
•	Frederick S., Hillier, Mark S., Schmedders, Karl, Stephens, Molly, (2014). Introduction to management science: a modeling and case studies approach with spreadsheets. 5th Edition. McGraw Hill.		
i	Hillier, S. and Lieberman, G., (2010). Introduction to Operations R McGraw Hill.	esearch. 9th Edition.	
•	Evans, J., (2013). Business Analytics: Methods, Models and Decision		
•	Kelton, Sadowski and Swets (2010). Simulation with Arena, 5th Ed	ition, McGraw Hill.	
	Taha, H. A., (2007). Operations Research - An Introduction. 8th E	dition. Prentice Hall.	
	Taylor III, B.W., (2010). Introduction to Management Science. 10th	h Edition Drontico Hall	

Ad	ditional Reading	南間大學 Nankai University MBA中
Background Readin	g	
	The Art of Computer Systems Performance 175). Queueing Systems, Volume I: Theory.	
	and Pasternack, B.A., (2002). Applied Mana	
 Nemhauser, G.L. John Wiley & So 	., and Wolsey, L.A. , (1988). Integer and Cons.	ombinatorial Opimization.
 Russell, S., and M. Edition. Prentic 	Norvig, P., (2010). Artificial Intelligence – A e Hall.	Modern Approach. 3rd
Journals		
 Supply Chain Ma 	anagement: An International Journal	
 International Journal 	urnal Production Economics	
 International Journal 	urnal of Operations and Production Manag	gement
 International Journal 	urnal of Physical Distribution and Logistics	Management
 Interfaces (2*, IS 	SSN 0926-2644, interfaces.journal.informs	.org)
 European Journa www.elsevier.co 	al of Operational Research (3*, ISSN 0377- om/locate/ejor)	2217,
 Management Sc 	ience (4*, ISSN 0025-1909, mansci.journal	l.informs.org)
 Operations Rese 	earch (4*, ISSN 0030-364X, http://or.journa	al.informs.org/)
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