

Course Profile

Department of Management / International Logistics Management Program

Course Number: MAN308	Course Title: Logistic Planning and Modelling																				
Required / Elective: Required	Pre / Co-requisites: -																				
Catalog Description: Designing, planning, implementing and evaluating manufacturing and service operations and modeling a logistics problem using linear programming. The structure and classification of logistics costs, logistics and cost accounting, transportation costs, the calculation and examination of costs in multiple transport systems.	Textbook / Required Material: Production and Operations Analysis, Steven Nahmias, McGraw-Hill/Irwin Series Operations and Decision Sciences, Sixth Edition, 2008.																				
Course Structure / Schedule: (3+0+0) 3 / 6 ECTS																					
Extended Description: The aim of this course is to give a general knowledge of the techniques of planning process and models commonly used in logistics assessment and to demonstrate their practical application by using relevant computer package program. Algebraic formulations will be used as vehicle for describing models and discussing their relationships.																					
Design content: None	Computer usage: WinQSB or Lindo																				
<p>Course Outcomes:</p> <p>By the end of this course, students will be able to:</p> <ol style="list-style-type: none"> 1. Provide the skills necessary for optimal decision-making processes. 2. Cover basic concepts of modelling. 3. Discuss decisions concerning design, tactical and operational aspects of logistics problems and study their flow-on effects. 4. Design decisions involving various issues related to logistics planning. 																					
<p>Recommended reading:</p> <ul style="list-style-type: none"> -Logistics and Transportation - Design and Planning, Raja G. Kasilingam, Springer, First Ed., 1999. -Introduction to Logistics Systems Planning and Control, Gianpaolo Ghiani, Gilbert Laporte and Roberto Musmanno, Wiley, First Ed., 2004. 																					
Teaching methods: Lectures, assignments, quizzes, case studies, midterm and final exam.																					
<p>Assessment methods:</p> <p>Assignments: 15%</p> <p>Quizzes: 15%</p> <p>Midterm: 20%</p> <p>Final exam: 30%</p>																					
<p style="text-align: center;">Student Workload/ECTS (European Credit Transfer System) Tableau:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Activity:</th> <th style="text-align: center;">Number:</th> <th style="text-align: center;">Duration (hour):</th> <th style="text-align: center;">Total Workload (hour):</th> </tr> </thead> <tbody> <tr> <td>Pre- reading</td> <td style="text-align: center;">14</td> <td style="text-align: center;">3</td> <td style="text-align: center;">42</td> </tr> <tr> <td>Lectures</td> <td style="text-align: center;">14</td> <td style="text-align: center;">3</td> <td style="text-align: center;">42</td> </tr> <tr> <td>Assignments</td> <td style="text-align: center;">5</td> <td style="text-align: center;">3</td> <td style="text-align: center;">15</td> </tr> <tr> <td>Quizzes</td> <td style="text-align: center;">3</td> <td style="text-align: center;">5</td> <td style="text-align: center;">15</td> </tr> </tbody> </table>		Activity:	Number:	Duration (hour):	Total Workload (hour):	Pre- reading	14	3	42	Lectures	14	3	42	Assignments	5	3	15	Quizzes	3	5	15
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Midterm	1	16	16
Final Examination	1	20	20
TOTAL: 150 hours / 25 = 6 ECTS			
Prepared by: Staff		Revision Date: 21.06.2012	