DOKUZ EYLUL UNIVERSITY

FACULTY OF ENGINEERING OFFICE OF THE DEAN

COURSE / MODULE / BLOCK DETAILS

ACADEMIC YEAR / SEMESTER

<table>
<tr><td colspan="4">Offered by:
Endüstri Mühendisliği</td></tr>
<tr><td colspan="3">Course Title:
SUPPLY CHAIN MODELLING AND ANALYSIS</td><td>Course Org. Title:
SUPPLY CHAIN MODELLING AND ANALYSIS</td></tr>
<tr><td colspan="3">Course Level:
Lisans</td><td>Course Code:
IND 4902</td></tr>
<tr><td colspan="3">Language of Instruction:
İngilizce</td><td>Form Submitting/Renewal Date
19/02/2013</td></tr>
<tr><td colspan="3">Weekly Course Hours:
3</td><td>Course Coordinator:
DOÇENT BİLGE BİLGEN</td></tr>
<tr><td>Theory</td><td>Application</td><td>Laboratory</td><td>National Credit:
3</td></tr>
<tr><td>3</td><td>0</td><td>0</td><td>ECTS Credit:
4</td></tr>
</table>

Wire: 0 232 301 72 15 Fax: 0 232 301 72 10 Access: http://www.eng.deu.edu.tr

Address: Dokuz Eylül Üniversitesi Tınaztepe Yerleşkesi 35160 Buca/İZMİR E-mail: muhendislik@deu.edu.tr

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Offered to:	Course Status: Compulsory/Elective
Name of the Department:	
Industrial Engineering	Elective Course

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COURSE / MODULE / BLOCK DETAILS

ACADEMIC YEAR / SEMESTER

Instructor/s:

Wire: 0 232 301 72 15 Fax: 0 232 301 72 10 Access: http://www.eng.deu.edu.tr

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Course Objective:
To be able to model and analyze supply chain management and logistics problems.

Learning Outcomes:	
1	An ability to identify main concepts of supply chain management
2	An ability to derive mathematical programming models for solving the supply chain management problems.
3	To teach students to use problem solving tools to analyze strategic, tactical, and operational supply-chain decisions including facility location, vehicle routing problems.
4	To engage students in case studies based on real world supply chain decisions.
5	An ability to solve logistics optimization problems via mixed integer linear programming models.

Learning and Teaching Strategies:
The presentations which are prepared by using books, articles and proceedings as well as class board will be used in the scope of the course programme.

Assessment Methods:

Name	Code	Calculation formula
Vize	VZ	
Ödev	OD	
Final	FN	
Bütünleme Notu	BUT	
BNS	BNS	VZ*035+D *015+FN * 050
Bütünleme Sonu Başarı Notu	BBN	VZ*035+D *015+BUT * 050

Further Notes about Assessment Methods:
Textbook(s): Supply Chain Management: Strategy, Planning, and Operations, Chopra, S. and Meindle, P., Prentice Hall, 2010 Supplementary Book(s): Introduction to Computational Optimization Models for Production Planning in a Supply Chain, Stefan Vob, David L. Woodruff, Springer, 2003.

Assessment Criteria:

Textbook(s)/References/Materials:
Textbook(s): Supply Chain Management: Strategy, Planning, and Operations, Chopra, S. and Meindle, P., Prentice Hall, 2010 Supplementary Book(s): Introduction to Computational Optimization Models for Production Planning in a Supply Chain, Stefan Vob, David L. Woodruff, Springer, 2003.

Course Policies and Rules:

Contact Details for the Instructor:
bilge.bilgen@deu.edu.tr

Office Hours:
Thursday 14:00-16:00

Course Outline:

Week	Topics:	Notes:
1	Introduction	
2	Supply chain network design	
3	Supply chain network design under uncertain environment	
4	Facility location problem	
5	Aggregate planning in a supply chain	
6	Transportation in a supply chain	

7	Travelling salesperson problem, vehicle routing problem
8	Sourcing decisions in a supply chain
9	Supplier selection problem
10	Midterm Exam
11	Reverse supply chain management
12	Coordination in supply chain
13	Presentations
14	Presentations

ECTS Table			
Course Activities	Number	Duration (hour)	Total Work Load (hour)
In Class Activities			
Lectures	14	3	42
Exams			
Final	1	1,5	2
Midterm	1	1,5	2
Out Class activities			
Preparations before/after weekly lectures	14	2	28
Preparation for midterm exam	1	8	8
Preparation for final exam	1	12	12
Preparing presentations	1	12	12
Total Work Load (hour)			106
ECTS Credits of the Course= Total Work Load (hour) / 25			4

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