Offered by:

Endüstri Mühendisliği

Course Title: **KNOWLEDGE BASED SYSTEMS**	**Course Org. Title:** **KNOWLEDGE BASED SYSTEMS**
Course Level: **Lisans**	**Course Code:** **IND 3930**
Language of Instruction: **İngilizce**	**Form Submitting/Renewal Date** **15/04/2013**
Weekly Course Hours: 3	**Course Coordinator:** **DOÇENT LATİF SALUM**

Theory	Application	Laboratory	National Credit: 3
3	0	0	ECTS Credit: 4

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

Instructor/s:
DOÇENT LATİF

Course Objective:

The aim of this course is to apply Knowledge Based Systems in Industrial Engineering problems

Learning Outcomes:

1	Be able to recognize what problems are appropriate for Knowledge Based Systems
2	Select an appropriate knowledge representation and reasoning method
3	Compare and contrast various knowledge representation systems
4	Describe basic steps of Knowledge Based Systems development
5	Demonstrate modelling of natural language with propositional and predicate logic

Learning and Teaching Strategies:

Assessment Methods:

Name	Code	Calculation formula
Vize	VZ	
Ödev	OD	
Final	FN	
Bütünleme Notu	BUT	
BNS	BNS	VZ * 030 + D * 020 + FN * 050
Bütünleme Sonu Başarı Notu	BBN	VZ * 030 + D * 020 + BUT * 050

Further Notes about Assessment Methods:

Assessment Criteria:

Textbook(s)/References/Materials:

Expert Systems: design and development, Durkin, J

Course Policies and Rules:

Contact Details for the Instructor:

Office Hours:

Course Outline:

Week	Topics:	Notes:
1	Introduction to Artificial Intelligence	
2	Knowledge Engineering and Knowledge Representation	
3	Knowledge Representation	
4	Knowledge Representation	
5	Forward and Backward chaining	
6	Development of Knowledge Based Systems	
7	Midterm	
8	Project Presentations	
9	Project Presentations	
10	Project Presentations	
11	Project Presentations	
12	Project Presentations	

13	Project Presentations
14	Project Presentations

ECTS Table			

Course Activities	Number	Duration (hour)	Total Work Load (hour)
In Class Activities			
Lectures	6	3	18
Case study	7	3	21

Exams			
Final	1	2	2
Midterm	1	2	2

Out Class activities			
Preparations before/after weekly lectures	6	1	6
Preparation for midterm exam	1	7	7
Preparation for final exam	1	9	9
Preparing assignments	7	3	21
Preparing presentations	7	2	14
Total Work Load (hour)			100
ECTS Credits of the Course= Total Work Load (hour) / 25			4