

INDUSTRIAL PROCESS DESIGN

1	Course Title:	INDUSTRIAL PROCESS DESIGN	
2	Course Code:	END3142	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	6	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Yrd.Doç.Dr. BESİM TÜRKER ÖZALP	
15	Course Lecturers:	-	
16	Contact information of the Course Coordinator:	tozalp@uludag.edu.tr, 0-224-2942090, Endüstri Müh. Bölümü Oda No:302 Görükle Bursa	
17	Website:	http://www20.uludag.edu.tr/~tozalp	
18	Objective of the Course:	Process-based organization, methodologies and practices for the design of transition and re-teach processes.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Plan a business process improvement initiative.
		2	Analyze and redesign a current process that needs improvement.
		3	Obtain the resources needed to change a process.
		4	Develop a systematic approach for creating and implementing change and use information technology in process management.
		5	
		6	
		7	
		8	
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	
1	What is a process? Reasons for process management.		
2	Identification of the process, inputs the outputs.		
3	Classification of processes.		
4	ISO 9000/2000 Quality Management System Standard.		

5	Process work flowcharting.	
6	EFQM Business Excellence Model.	
7	Elements of process improvement. Measurement of process performance. Metrics.	
8	Introduction to Microsoft Visio. Work flow and functional flowchart.	
9	Brainstorming, fishbone methods.	
10	Organization chart, cause and effect diagrams.	
11	Calendar and timeline creation, Gantt chart and Pert scheduling method.	
12	Quality function deployment.	
13	Value stream mapping.	
14	Value stream mapping.	

22	Textbooks, References and/or Other Materials:	Dan Madison, "Process Mapping, Process Improvement, and Process Management", Paton Professional, 2005
23	Assesment	

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	1	25.00
Quiz	0	0.00
Home work-project	1	25.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Contribution of Term (Year) Learning Activities to Overall Success Grade	50	2.00	28.00
Practicals/Labs	0	0.00	0.00
Contribution of Final Exam to Success Grade	50	2.00	28.00
Self study and preparation	14		
Homeworks	1	6.00	6.00
Measurement and Evaluation Techniques Used in the Course	1	25.00	25.00
Field Studies	0	0.00	0.00

24. ECTS WORK LOAD TABLE			
Midterm exams	1	1.50	1.50
Others	0	0.00	0.00
Final Exams	1	1.50	1.50
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	2	4	3	1	0	0	0	0	2	0	4	0	0	0	0
ÖK2	3	2	2	3	1	0	0	0	0	2	0	3	0	0	0	0
ÖK3	0	2	3	2	1	0	0	1	0	2	0	4	0	2	0	0
ÖK4	0	0	0	5	0	2	0	0	0	0	0	0	3	4	0	0
LO: Learning Objectives PQ: Program Qualifications																

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High
----------------------------	-------------------	--------------	-----------------	---------------	--------------------