

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
INTRODUCTION to INDUSTRIAL ENGINEERING	IND1118980	Fall Semester	2+0	2	2
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	English				
Course Level	First Cycle (Bachelor's Degree)				
Course Type	Required				
Course Coordinator	Assoc.Prof. Melis Almula KARADAYI				
Name of Lecturer(s)	Assoc.Prof. Melis Almula KARADAYI, Lect. Özgür EROL, Assist.Prof. Merve Yüstra DOĞAN, Assoc.Prof. Yasin GÖÇGÜN				
Assistant(s)					
Aim					
Course Content	This course contains; Introduction to the field of Industrial Engineering, Introduction to Operations Research and Linear Programming, Introduction to Optimization, Introduction to Stochastic Modeling, Introduction to Feasibility Studies in Engineering Systems, Introduction to Location Analysis, Introduction to Engineering Economics, MIDTERM EXAM, Introduction to Transportation Models, Introduction to Decision Analysis, Introduction to Project Management, Introduction to the Quality Concept and Quality Control, Introduction to Work Study, Introduction to Time Study and Process Analysis, Introduction to System Analysis and Design Engineering.				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
1. Students will be able to recognize basic concepts and techniques in the main subjects of industrial engineering.			1, 10, 14, 15, 2	A	
2. Students will be able to decide which Industrial Engineering technique can solve the encountered problems.			1, 10, 12, 14, 15, 2	A	
3. Student will be able to examine the system as a whole and will be able to make proposals and improvements that will ensure the harmonious operation of the different units of the system.			1, 10, 2	A	
4. Students will be able to examine industrial engineering problems from an analytical point of view.			1, 10, 14, 15, 2	A	
Teaching Methods	1: Lecture, 10: Brainstorming, 12: Case study, 14: Self-Study, 15: Problem solving, 2: Question - Answer				
Assessment Methods	A: Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to the field of Industrial Engineering				
2	Introduction to Operations Research and Linear Programming				
3	Introduction to Optimization				
4	Introduction to Stochastic Modeling				
5	Introduction to Feasibility Studies in Engineering Systems				
6	Introduction to Location Analysis				
7	Introduction to Engineering Economics				
8	MIDTERM EXAM				
9	Introduction to Transportation Models				
10	Introduction to Decision Analysis				
11	Introduction to Project Management				
12	Introduction to the Quality Concept and Quality Control				
13	Introduction to Work Study				
14	Introduction to Time Study and Process Analysis				
15	Introduction to System Analysis and Design Engineering				
Evaluation Methods		Weight(%)			
Midterm Exam		30			
General Exam		70			
Resources					