INTRODUCTION TO INDUSTRIAL ENGINEERING

1	Course Title:	INTRODUCTION TO INDUSTRIAL ENGINEERING
2	Course Code:	END1061
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	1
6	Semester:	1
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:	Prof. Dr. BETÜL YAĞMAHAN
15	Course Lecturers:	-
16	Contact information of the Course Coordinator:	betul@uludag.edu.tr + 90 (224) 294 20 88 Uludag University, Faculty of Engineering-Architecture, Department of Industrial, Gorukle Campus, Bursa 16059, Turkey.
17	Website:	
18	Objective of the Course:	The aim of this course is to define the concept of Industrial Engineering, explain the historical development of Industrial Engineering, show the systematic to be followed in industrial engineering studies, introduce the roles which are often undertaken in firms, and analyze the future of industrial engineering.
19	Contribution of the Course to Professional Development:	This course provides students to give the ability to know the solution to the problems and approaches related to industrial engineering
20	Learning Outcomes:	
	1	Being able to gain knowledge about the concept, development, and working principles of industrial engineering
	2	Being able to gain knowledge about the study fields of Industrial Engineering
	3	Being able to identify the main areas of Industrial Engineering
	4	
	5	
	6	
	7	
	8	
	9	
	10	
21	Course Content:	
	Course Content:	
Week	Theoretical	Practice

1	Instructor Introduction; Course Overview Definition of Industrial Engineering, History and Development	
2	Industrial and Systems Engineering, Roles in Firms (Systems), and Future.	
3	Productivity and Productivity Management	
4	Human Engineering	
5	Work Study	
6	Operations Research	
7	Facility Location	
8	Facility Layout	
9	Simulation	
10	Quality Management	
11	Production Planning and Scheduling	
12	Information Systems	
13	Engineering Economy	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	2.00	28.00
Homeworks	1	8.00	8.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	8.00	8.00
Others	1	8.00	8.00
Final Exams	1	10.00	10.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

22	Textbooks, References and/or Other 1. Turner, W.C., Mize, J.H., Case, K.E., Nazemetz, J.W. Prentice Hall, 3rd. ed., New Jersey, 1993. 2. Tanyas, M., Endüstri Mühendisliğine Giriş, 2. baskı
23	Assessment **TERM LEARNING ACTIVITIES** / **NUMBER** / **WEIGHT** Quiz / 1 / 15 Final Exam / 1 / 50
Contribution of Term (Year) Learning Activities to Success Grade	50.00
Contribution of Final Exam to Success Grade	50.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.
24	**ECTS / WORK LOAD TABLE**

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	0	0	0	0	0	0	0	1	1	2	0	0	2	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**				**4 High**			**5 Very High**			