	ENGINEERING ECONOMY									
1	Course Title:	ENGINE	ERING ECONOMY							
2	Course Code:	END306	8							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	cle							
5	Year of Study:	3								
6	Semester:	6								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to	face							
14	Course Coordinator:	Doç. Dr.	ASLI AKSOY							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	e-posta: asliaksoy@uludag.edu.tr, Tel: + 90 (224) 294 20 78 Adres: Bursa Uludağ Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, 16059 Görükle Bursa								
17	Website:									
18	Objective of the Course:	Learning how to perform economic analyses for engineering projects								
19	Contribution of the Course to Professional Development:	The contribution of the course to professional development is to provide the basic knowledge and methods for economic analysis in project evaluation and investment decisions in business life and the ability to apply appropriate methods for problem solving.								
20	Learning Outcomes:									
		1	Being able to perform economic analysis for engineering projects							
		2	Being able to perform time value of money, interest rate and economical analysis computations							
		3	Being able to compare alternatives by using economic analysis methods							
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
\\\ \ - \ \	Theoretical	Co	ourse Content:							
	Theoretical		Practice							
1	Introduction to Engineering Econom -Explaining engineering economy co									

2	Basic concepts in engineering econo Cost terminology Economic value	omy						
3	Interest rate Cash flow diagrams Economic equivalence Cash flow diagrams Single cash flows Net present value							
4	Time value of money Uneven payment series Linear gradient series Gradient series							
5	Understanding money management Nominal interest rate Effective interest rate							
6	Continuous series Project cash flows Pay back period analysis Net present worth analysis MARR analysis Future worth analysis							
7	Annual equivalent worth analysis IRR ERR							
8	Rate of return analysis				_			
Activit			Number	Duration (hour)	Total Work Load (hour)			
Theore	Effects of Inflation		14	3.00	42.00			
Practic	als/Labs		0	0.00	0.00			
Self stu	Differentiaberismonanges		14	6.00	84.00			
Homev	vorks		1	14.00	14.00			
Project	Tropiacoment analysis		0	0.00	0.00			
Field S	Rreakeven analysis itudies		0	0 0.00				
Midterr	n exams		1	2.00	2.00			
Others			0	0.00	0.00			
Final E	kakasdom variables		1	2.00	2.00			
Total V	Vork Load				144.00			
Total w	ork load/ 30 hr				4.80			
ECTS	Credit of the Course				5.00			
	Materials:		Pearson • Engineering Economy; 15. Basim, William G. Sullivan, Elin M. Wicks, C. Patrick Koelling; Pearson • Mühendislik Ekonomisi Temel Kavramlar ve Örnek Problemler, Esra Baş, Beta • Mühendislik Ekonomisi, Prof. Dr. Emin Kahya, Eskişehir Osmangazi Üniversitesi Yayınları • Mühendislik Ekonomisinin Temelleri, Orhan Torkul, İhsan Hakan Selvi, Palme Yayınevi, 2018					
23	Assesment							
TERM I	LEARNING ACTIVITIES	NUMBE R	WEIGHT					
Midterr	m Exam	1	20.00					
Quiz		0	0.00					
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Home work-project	1	20.00					
Final Exam	1	60.00					
Total	3	100.00					
Contribution of Term (Year) Learning Activities Success Grade	es to	40.00					
Contribution of Final Exam to Success Grade)	60.00					
Total		100.00					
Measurement and Evaluation Techniques Us Course	sed in the	Midterm exam, homework, final exam					
24 ECTS / WORK LOAD TABLE							

24 | ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	5	0	3	4	2	2	0	2	3	0	0	0	0	0	0
ÖK2	4	4	0	3	4	0	0	0	0	3	0	0	0	0	0	0
ÖK3	4	4	0	3	4	0	0	0	0	3	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ition		:	2 low			3 Medium		4 High		5 Very High					