	ENGI	NEERI	NG ECONOMY					
1	Course Title:	ENGINE	ERING ECONOMY					
2	Course Code:	INS4009						
3	Type of Course:	Compulsory						
4	Level of Course:	First Cycle						
5	Year of Study:	4						
6	Semester:	7						
7	ECTS Credits Allocated:	2.00						
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 f	ace					
14	Course Coordinator:	Prof. Dr.	TURAN ARSLAN					
15	Course Lecturers:							
16	Contact information of the Course Coordinator:	arsltur@uludag.edu.tr 0 224 294 2639						
17	Website:	http://insaat.uludag.edu.tr/						
18	Objective of the Course:	To introduce the general principles of engineering economics and the application of economic analysis techniques for analyzing the economics of alternatives considering costs and benefits of civil engineering projects						
19	Contribution of the Course to Professional Development:	Students can compare real world engineering projects by using economic analysis techniques						
20	Learning Outcomes:							
		1	Be able to understand the basic principles of economy					
		2	Be able to understand the basic concepts of engineering economics					
			Be able to define and present projects' costs and benefits on a cash flow diagram					
		4	Be able to compare projects using economic analysis techniques					
		5						
		6						
		7						
		8						
		9						
		10						
21	Course Content:							
		Co	burse Content:					
	Theoretical		Practice					
1	Importance of Engineering Economy and Basic Concepts							
2	Costs-Benefits Concepts							
3	Time Value of Money							
4	Cash Flow Diagram							

5	Interest	Factor	s														
6	Interest	Factor	s														
7	Deprecia	epreciation Factor															
8	Cost-Be	ost-Benefit Analysis															
9	Net Pres	et Present Value and Future Value Analysis					5										
10	Equivale	quivalent Annual Cost Methods															
		rofitability Index, Rate of Return and ayback Period Methods						Т									
	-	comparing Alternatives															
13	Compar	Comparing Alternatives						Т									
14	Depreciation Analysis																
	Textbooks, References and/or Other Materials:							-E	-Mühendislik Ekonomisi, Alim Işık, Birsen Yayınevi -Engineering Economy, McGraw-Hill, Leland Blank and Anthony Tarquin								
23	Assesm	ent															
TERM L						NR		W	WEIGHT								
Midterm	n Exam					1		40	0.00								
Quiz						0	1	0.	00								
Home w	ne work-project 0 0.00																
Activites				14			Number			Dura	Duration (hour)			Total Work Load (hour)			
Theoret	s Grade lical								14			2.00	2.00			28.00	
Practica	racticals/Labs							0 0.00			0.00						
Set Pstu	study and preperation							1	10p400			2.00			28.00		
Homew	leworks								0			0.00			0.00		
Fourse Projects								a	assignments			0.00			0.00		
Field St									0			0.00			0.00		
Midterm	rm exams								1			2.00			2.00		
Others	S								0			0.00			0.00		
Final Ex	Exams								1			2.00			2.00		
Total W	Work Load															60.00	
Total wo	work load/ 30 hr													2.00			
ECTS C	S Credit of the Course													2.00			
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	0	0	ľ	Ē													
ÖK3 ÖK4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	

Contrib ution	1 very low	2 low	3 Medium	4 High	5 Very High
Level:					