	RAILWAYS											
1	Course Title:	RAILWA	YS									
2	Course Code:	INS4086										
3	Type of Course:	Optional										
4	Level of Course:	First Cyc	cle									
5	Year of Study:	4										
6	Semester:	8										
7	ECTS Credits Allocated:	3.00										
8	Theoretical (hour/week):	2.00										
9	Practice (hour/week):	1.00										
10	Laboratory (hour/week):	0										
11	Prerequisites:	None										
12	Language:	Turkish										
13	Mode of Delivery:	Face to f	face									
14	Course Coordinator:	Doç.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 provide basic understanding of railroads and methods for conducting railway design										
19	Contribution of the Course to Professional Development:											
20	Learning Outcomes:											
		1	To be able to understand railroad components									
		2	To be able to understand rolling stocks and their characteristics									
		3	To be able to define technologies used in railroad transportation									
		4	To be able to calculate traction power, motion and speed regimes									
		5	To be able to apply vertical and horizontal design principles on railroads									
		6										
		7										
		8										
		9										
		10										
21	Course Content:	-										
10.		Co	ourse Content:									
	Theoretical		Practice									
1	Transportation Systems and Railroad Transportation											
2	Railroad History in World and Turkey											
3	Railroad Components	- 41 -										
4	Rolling Stocks Types and Characteri	Stics										

5	Traction Power								So	Solving application problems										
6	Motion and Speed Regimes								So	Solving application problems										
7	Railroad Geometrics								So	Solving application problems										
8	Vertical Alignments and Curve Radius								So	Solving application problems										
9	Railroad Types and Characteristics																			
10	Rails and Ties																			
11	Cross Sections and Ballasts																			
12	Rapid Railroad Applications																			
13	Railroad Practices in World and Turkey																			
14	Railroad Applications for Urban Transportation																			
22	Textbooks, References and/or Other Materials:								Kit - D	- Toprak İsleri ve Demiryolu, İnal Seçkin, Çaglayan Kitabevi, 2003 - Demiryolu, Güngör Evren, Birsen Yayınevi, 2002 - W.W. Hay, Railroad Engineering, John Wiley & Sons										
23	Asse																			
TERM I	LEARNING ACTIVITIES NUMBE							WE	WEIGHT											
Midterr	m Exa	m					1		20	20.00										
Quiz	Quiz 0							0.0	0.00											
Home	work-p	oroje	ect				8		20	20.00										
Activites								1	Numb	er		Dura	ition (Total Work Load (hour)						
Contribution of Term (Year) Learning Activities to Success Grade									740,	140			2.00		28.00					
Practic	racticals/Labs								1	14					14.00					
Self stu	If study and preperation								10	14					28.00					
Homev	Homeworks								8	8					16.00					
Project Course	weasurement and Evaluation Techniques Osed in the Brojects Course								ie ()			0.00		0.00					
	Field Studies)			0.00		0.00					
Midterr	Midterm exams								1	1					2.00					
Others	Others								()			0.00		0.00					
Final E	Final Exams									1			2.00		2.00					
Total Work Load														92.00						
Total work load/ 30 hr														3.00						
ECTS Credit of the Course															3.00					
25				CON	TRIE	BUTIO	N OI				OUTC	OME:	S TO I	PROC	BRAM	ME				
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9		PQ11	PQ12		PQ14	PQ15	PQ16			
ÖK1	2	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0			
						1														

ÖK2

ÖK3

ÖK4

ÖK5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learnin Contrib 1 very low 2 loution Level:				ning C	bjec		s P Medi			m Qu 4 Higl				y High		