		RAI	LWAYS							
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@ 0 224 29	Quludag.edu.tr 94 2639							
17	Website:	http://ins	saat.uludag.edu.tr/							
18	Objective of the Course:	To provide conducti	de basic understanding of railroads and methods for ng 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	Trad	rtion	Powei	r					180	lying	nnlicat	ion pro	hleme							
6				eed R	agima	26				Solving application problems  Solving application problems										
7			•	etrics	cynne					<b>3</b> 11 1										
8					and C	urve R	adius			Solving application problems										
						cteristi			30	Solving application problems										
9			Ties	anu (	Jilala	cteristi	105													
10				الممما	Dallas	4-														
11				and I																
12				Appli			T .1 .													
13	_					d and	Turkey													
14	Trar	road	Applic	cations	s for C	Jrban														
22	Materials:									- Toprak İsleri ve Demiryolu, İnal Seçkin, Çaglayan Kitabevi, 2003 - Demiryolu, Güngör Evren, Birsen Yayınevi, 2002 - W.W. Hay, Railroad Engineering, John Wiley & Sons										
TERM L				VITIES			IN	IUMBE	E WE	EIGHT										
							R													
Midterr	n Exa	am					1			20.00										
Quiz							0			0.00										
Home		-proje	ct				8			20.00										
Activit										Number Duration (hour) Total Load						Load (h				
Contrib Theore Succes	utior tical ss Gr	or ro ade	erm (	rear) i	Learn	ing Aci	tivities	το	40,	140			2.00			28.00				
Practic									•	14			1.00			14.00				
Self stu	<del>udy a</del>	nd pr	epera	tion					10	100.00					28.00					
Homew									8				2.00			16.00				
weasu Course	reme S	nt an	<del>u Eva</del>	iluatioi	ттес	nnique	s use	<del>a in tr</del>	ie (	)			0.00			0.00				
Field S		S							(	)			0.00			0.00				
Midterr	n exa	ams							7	1			2.00			2.00				
Others	Others							(	)			0.00			0.00					
Final E	xams	3								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	BUTIC	N OI				OUTC		S TO I	PROC	SRAM	ME				
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16			
Ökk		_	^	0	4	0					0		0	3			0			
ÖK1		2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0			

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	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0
ÖK4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications  Contrib 1 very low 2 low 3 Medium 4 High 5 Very High ution Level:																