	MATERIA	ALS O	F CONSTRUCTION						
1	Course Title:	MATERI	ALS OF CONSTRUCTION						
2	Course Code:	INS2032	2						
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	cle						
5	Year of Study:	2							
6	Semester:	4							
7	ECTS Credits Allocated:	5.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	1.00							
10	Laboratory (hour/week):	1							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Doç. Dr. ALİ MARDANI AGHABAGLOU							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	ali.mardani16@gmail.com							
17	Website:								
18	Objective of the Course:	The objective of this course is to introduce the students the properties and the fields of usage of different materials used in civil engineering applications.							
19	Contribution of the Course to Professional Development:	To ensure that students graduate as competent engineers with knowledge about building materials							
20	Learning Outcomes:								
		1	Recognising the materials used in civil engineering applications and learning their important properties						
		2	Getting the ability to make a selection among different materials for a specific application by using engineering knowledge						
		3	Testing some properties of construction materials and reporting the results						
		4	Designing concrete mixture						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	purse Content:						
Week	Theoretical		Practice						
1	Introduction, Natural stones: propert classification and production	ies,							
2	Metals: Ferrous metals, non-ferrous and their properties, classification, nused in construction								

3	Plastics: Thermoplastics, thermosets molecular structure of plastics, classi and uses										
4	Ceramics: Classification, manufactur physical and chemical properties and										
5	Wood: Physical and mechanical prop	erties,									
6	Wood: Defects, deterioration and preservation										
7	Gypsum and lime: manufacture, proptypes, uses	erties,									
8	Pozzolans: Classification, pozzolanic reaction, Pozzolanic activity and factoraffecting it, chemical composition, us	ors									
9	Cement: Manufacture, properties, hy	dration	Tests on cement								
10	Cement: Hydration, types, tests on co	ements									
11	Aggregates: Classification, sampling gradation, fineness modulus, physical properties, tests on aggregates		Т	Tests on aggregate							
12	Concrete: Properties of fresh and had concrete, Concrete: mixing, handling of hardened concrete,		Tests on concrete								
13	Concrete: mix proportioning										
14	Concrete: mix proportioning										
22	Textbooks, References and/or Other		Tir	ışaat Mühendisleri için	Malzeme Rilgisi P	rof Dr Bülent					
Activit	l		1-	Number	Duration (hour)						
Theore	tical		M	97 ₄ 6, alzeme Bilimi. Prof. Dr	2.00 . Kasif ONARAN. E	28.00 ilim Teknik					
Practic	als/Labs			14	1.00	14.00					
Self stu	dy and preperation		(2	qogan, r.Y., iviateria 003)	7.86 Construction,	98.00 Press,					
Homev	vorks			1	7.00	7.00					
Project	S		N	L. Gambhir, Concrete	0.00 Technology, Tata	McGraw-Hill					
Field S	tudies			0	0.00	0.00					
Midtern	n exams		9 E	dition, Prentice-Hall, E	iglewood Cliffs, N.	12.2803.					
Others				0	0.00	0.00					
Final E	kams		ļή	BB, İstanbul, 2005.	2.00 2.00	2.00					
Total V	Vork Load					153.00					
Total w	ork load/ 30 hr		P	.K. Mehta, P.J.M. Mon	eiro, Concrete: Mic	ინეციალი,					
ECTS (Credit of the Course		5.00								
23	Assesment		_								
	LEARNING ACTIVITIES	NUMBE R	W	/EIGHT							
Midterm Exam 1			20.00								
Quiz 0				0.00							
Home work-project 1				20.00							
Final E	xam	1	60.00								
Total		3	100.00								
	oution of Term (Year) Learning Activitiess Grade	es to	40.00								
Contrib	oution of Final Exam to Success Grade	6	0.00								

Total									100.00							
Measurement and Evaluation Techniques Used in the Course									Assessment and evaluation tools and methods, in which the students are active, show that they reach the gains/outputs at the end of the course with their progress in the course process.							
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	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	5	5	4	0	0	0	0	0	0	0	0	0
ÖK4	4	4	5	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	ion				2 low		3 1	Medi	dium 4 High		5 Very High					