	MATERIA	ALS O	F CONSTRUCTION						
1	Course Title:	MATERI	ALS OF CONSTRUCTION						
2	Course Code:	INS2032							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
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:								
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	ourse Content:						
Week			Practice						
1	Introduction, Natural stones: propert classification and production	ties,							
2	Metals: Ferrous metals, non-ferrous and their properties, classification, nused in construction								

3	Plastics: Thermoplastics, thermosets molecular structure of plastics, class and uses									
4	Ceramics: Classification, manufactur physical and chemical properties and									
5	Wood: Physical and mechanical properties and		H							
6	Wood: Physical and medianical prop									
	preservation									
7	Gypsum and lime: manufacture, prop types, uses	perties,								
8	Pozzolans: Classification, pozzolanic reaction, Pozzolanic activity and fact affecting it, chemical composition, us	ors								
9	Cement: Manufacture, properties, hy	dration	Tests on cement							
10	Cement: Hydration, types, tests on c	ements								
11	Aggregates: Classification, sampling gradation, fineness modulus, physica properties, tests on aggregates		Tests on aggregate							
12	Concrete: Properties of fresh and ha concrete, Concrete: mixing, handling of hardened concrete,		Tests on concrete							
13	Concrete: mix proportioning		T							
14	Concrete: mix proportioning									
22	Textbooks, References and/or Other		lir	saat Mühandia	lori ioin	Malzeme Bilgisi, Pr	of Dr Bülont			
Activi	I	-	Number		Duration (hour)	Total Work Load (hour)				
Theore	etical		1 N	976, alzeme Bilimi.	Prof. Dr	2.00 . Kasif ONARAN. E	28.00 ilim Teknik			
Practio	cals/Labs			14		1.00	14.00			
Self st	dy and preperation		(2	199gan, 1.Y., 2003)	iviateria	7.00 Construction,	98.00 Press,			
Home	works			1		7.00	7.00			
Projec	ts		M	Dildon, 1961. .L. Gambhir, C	oncrete	0.00 Technology, Tata	ncGraw-Hill			
Field S	Studies			0		0.00	0.00			
Midter	n exams		JS E	dition. Prentice	. τουπς -Hall. E	rglewood Cliffs, N.	2.9803.			
Others			<u> </u>	0		0.00	0.00			
Final E	kams		T	1. ∟ruogan, od HBB, İstanbul,	oruiai ve 2005.	2.00	2.00			
Total V	Vork Load		<u> </u>	,,			151.00			
Total v	vork load/ 30 hr		P	.K. Mehta, P.J.	M. Mon	eiro, Concrete: Mic	ნამწucture,			
ECTS	Credit of the Course						5.00			
			ľ	600.						
23	Assesment									
TERM	LEARNING ACTIVITIES	NUMBE R	WEIGHT							
Midter	m 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 Activitions Grade	40.00								
Contrib	oution of Final Exam to Success Grade	Э	6	0.00						

Total								100	100.00								
Measure Course	hnique	s Use	d in th	ne													
24	ECTS /	TS / 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																	
Contri ution Level	1	1 very low 2 low				3 Medium			4 High			5 Very High					