	SPI	ECIAL	CONCRETE							
1	Course Title:	SPECIA	L CONCRETE							
2	Course Code:	INS5042								
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	6.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	None								
12	Language:	Turkish								
13	Mode of Delivery:	Face to f								
14	Course Coordinator:	Doç. Dr.	ALİ MARDANI AGHABAGLOU							
15	Course Lecturers:									
16	Contact information of the Course Coordinator:		ani16@gmail.com ni@uludag.edu.tr							
17	Website:									
18	Objective of the Course:		of this course is to provide the information related with the on, advantages, disadvantages, properties and use of concrete.							
19	Contribution of the Course to Professional Development:	2-To lear 3-To obta propertie	ow special concrete arn design criteria of different special concrete mixtures tain information about mechanical and some physical es of special concrete mixtures arn field of application of special concrete							
20	Learning Outcomes:									
		1	To know special concrete							
		2	To learn design criteria of different special concrete mixtures							
		3	To obtain information about mechanical and some physical properties of special concrete mixtures							
		4	To learn field of application of special concrete							
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:	uneo Contente								
Woold	Theoretical	CO	Practice							
vvеек 1	Introduction, cement, aggregate, cor									
2	The required properties of concrete									
2	The required properties of concrete									

3	Lightweight concrete: properties, pro methods, advantages and disadvant compared with normal concrete, ligh aggregates and their properties, fres and mechanical properties as well as durability performance of lightweight	ages tweight h state S								
4	Heavyweight concrete: applications, aggregates used in concrete mixture concrete properties and its durability	the s,								
5	Self-compacting concrete (SCC): def advantages and disadvantages, mix proportions, fresh concrete propertie on SCC	s, tests								
6	Fiber reinforced concrete: properties applications, advantages, material se fiber types, fresh properties, mechan properties	election,								
7	Shotcrete: Steel fiber shotcrete									
8	Polymer concrete: classification, fres properties, mechanical properties	h								
9	Midterm									
10	Roller compacted concrete: propertie	es,								
11	Roller compacted concrete: transpor casting, compacting,	tation,								
12	Vacuum concrete: concrete equipme properties	ent,								
Activites				Number	Duration (hour)	Total Work Load (hour)				
Theore	isencrete, properties	o pondoi		14	3.00	42.00				
Practic	als/Labs			0	0.00	0.00				
Self stu	dyatedats eperation		B	ulent BARADAN, DEU	MOO. Fak. Yayınlar	1,11/2a,900h No:				
Homew	vorks		-	1	20.00	20.00				
Project	8		K	OCATAŞKIN, İTÜ, MÜ	10.10/00m. Fak., Sayı	0 9),Östanbul,				
Field S	tudies			0	0.00	0.00				
Midterr	n exams		Y	alyınevi, İstanbul, 1997	2.00					
Others				0	0.00	0.00				
Final E	xams		5.	A.M. Neville, Propertie	28.00 Concrete, Pitr	2400 Pub.,				
Total V	Vork Load					178.00				
Total w	ork load/ 30 hr		P	ub.Co., New Delhi, 198	6.	5.93				
ECTS	Credit of the Course					6.00				
			 T.Y. Erdoğan, Beton, ODTÜ, Ankara, 2003. T.Y. Erdoğan, Sorular ve Yanıtlarıyla Beton Malzemeleri, THBB, İstanbul, 2005. G.D. Taylor, Materials of Construction, Construction Press, Second Edition, 1983. P.K. Mehta, P.J.M. Monteiro, Concrete: Microstructure Properties and Materials, Mc Graw-Hill, Third Edition, 2006. 							
23	Assesment									
TERML	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midterr	n Exam	1	20	0.00						
Quiz		0	0.	00						
Home	work-project	1	20.00							

Final Exam 1 6								60.	60.00											
Total	3									100.00										
Contribution of Term (Year) Learning Activities to Success Grade							40.0	40.00												
Contribution of Final Exam to Success Grade					60.	60.00														
Total						100	100.00													
Course					the	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.														
24 EC	ECTS / WORK LOAD TABLE																			
25										RNING OUTCOMES TO PROGRAMME UALIFICATIONS										
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16				

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	4	3	3	0	0	0	0	4	0	0	0	0	0	0	0	0
ÖK3	4	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
	LO: Learning Objectives PQ: Program Qualifications															
Contrib 1 very low ution Level:			2 Iow		3	Medi	um	4 High			5 Very High					