

Course Title-Course Code: CE 599 ADVANCED HIGHWAY MATERIALS							Name of the Programme: CIVIL ENGINEERING		
Semester	Teaching Methods							Credits	
	Lecture	Recite	Lab.	Field Study	H W	Other	Total	Credit	ECTS Credit
1-2	42	0	0	0	70	76	188	3	7.5
Language	Turkish								
Compulsory / Elective	Elective								
Prerequisites	-								
Course Contents	Nature, sources and uses of asphalts. Chemistry of asphalt. Physical properties of asphalts. Tests on asphalts. Classification and properties of aggregates. Test on aggregates. Aggregate calculations. Types of asphalts aggregate combinations and their applications. Significant properties of asphalt paving mixture calculation. Asphalt mix design.								
Course Objectives	Teaching the features and characteristics of road construction materials, combination and mixture properties, calculations and designs, and their behaviors								
Learning Outcomes and Competences	Knowing about testing, distinguishing, classifying, mixing and expected behavior of the materials used in road construction especially aggregate and bituminous materials or mixtures.								
Textbook and /or References	CE 441 Lecture Notes prepared by Prof.Dr. Rüştü YÜCE, METU, Ankara The Materials Book - Standard Specifications for Transportation Materials and Methods of Sampling and Testing, American Association of State and Highway Transportation Officials Highway Engineering Handbook, K.B.Woods, D.S.Berry, W.H.Goetz, 1960, McGraw Hill, USA.								
Assessment Criteria								<i>If any, mark as (X)</i>	Percent (%)
	Midterm Exams							X	30%
	Quizzes								
	Homeworks							X	10%
	Projects								
	Term Paper								
	Laboratory Work							X	20%
	Other								
	Final Exam							X	40%
Instructors	Asst.Prof.Dr.Hikmet BAYIRTEPE/ Asst.Prof.Dr. Kürşat ÇUBUK								