

T.C. MUNZUR ÜNİVERSİTESİ Lisansüstü Eğitim Enstitüsü Müdürlüğü

COURSE IDENTIFICATION FORM									
Course Code an	20 SUSTAINABLE		Department of: CIVIL ENGINEERING / MASTER PROGRAMME						
Semester	Theoretic Hour	Practice Hour	Total Hour	Credits	ECTS	Education Language	Type: Compulsory Elective		
Atumn/Spring	3	0	3	3	5	Turkish	Optional		
Prerequ	isite (s)								
Instructor		Mail : Web :							
Course Assistant						Mail : Web :			
Groups /	Classes								
Course Aim		Understanding the interaction of the city's construction, planning, urban recycling, infrastructure problems with the environment, understanding the concept of sustainability. Minimizing the interaction of the sustainable city with the environment, learning construction practices for a sustainable city that is self-sufficient and able to recycle.							
Course Goals		Construction practices for sustainable cities will be discussed with concrete examples through the concepts of climate change, urban heat island, urban floods, urban recycling, sustainable materials, and technosol.							
Course Learni Proficio	-	of sustainability, Knows ecology and sustainable methods in Civil Engineering. Knows Green buildings in construction. Knows construction excavation, recycling of demolition waste and materials. Knows sustainable energy systems in construction structures.							
	 Musy , M., Bozonnet , E., Briottet , X., Gutleben , C., Lagouarde J.P., Launeau , P., & Saber , M. (2014). Rapport final Projet ANR-09-VILL-0007 VegDUD Programme Villes Durables 2009. Vidal-Beaudet , L. (2018) . dechet au Technosol fertile : the appropriate Circular Du' programme français de recherche SITERRE. VertigO -la revue électronique en sciences de l'environnement , (Hors-série 31). A. Mengü, D. İşçioğlu .(2018). Urban Policies, Palme Publishing House, 					apport final Projet Villes Durables 2009. osol fertile: the de recherche de sciences de			



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Methods of Give a Lecture

Lecture, research and presentation.

Assessment Criteria			If Available, to Sign (x)	General Average Percentage (%) Rate				
		Midterm Exam	X	50				
		1. Quiz						
		2. Quiz						
		3. Quiz						
		4. Quiz						
		Oral Examination						
		Practice Examination						
		(Laboratory, Project etc.)						
		Final Exam	X	50				
		Semester Course	Plan					
Week		Subjects						
1	Introduction to Ecology and Urban Sustainability in Civil Engineering							
2	Carbon footprint and lifespan of materials							
3	Green buildings and energy consumption							
4	Urban floods and infrastructure problems							
5	Urban heat island, energy consumption and life comfort problem							
6	Urban recycling and waste management							
7	Technosol and sustainable floors							
8	Alternative practices for rainwater management							
9	City and Greenery: Ecological functions of green roofs and urban green spaces							
10	Ecological building materials							
11	Drinking water, Rainwater networks and wastewater networks and treatment systems							
12	Urban pollution							
13	General assessment: Global warming and the construction industry							
14	Presentations							