

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Rain Gardens in Urban Gree		en Infrastructure Systems							
Course Code		ZPM526		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 8 Workload		200 (Hours)	Theory	3	Practice	0	Laboratory	0	
Objectives of the Course The purposes of this course green infrastructure system and to teach the definitions system, and to show design		s and the types, fu	planning stag	es of the greer enefits of rain	n infrastructure gardens in urb	e system with ex ban green infrast	amples		
Course Content		The contents green infrastru	of this course ucture system	are the c and the c	oncept, definit definition, func	ion, benefits, c tions, benefits,	omponents, a , and design s	and planning stag stages of rain gar	jes of dens.
Work Placement N/A									
Planned Learning Activities and Teaching Methods		Methods	Explana	tion (Presenta	tion), Discussi	on, Case Stud	dy, Individual Stu	dy	
Name of Lecturer(s) Lec. Abdullah AKPINAR									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	30	
Final Examination	1	40	
Assignment	2	30	

Recommended or Required Reading

1	Benedict, B. A. & McMahon, E. D. (Unknown) Green Infrastructure: Smart Conservation for the 21st Century, Sprawl Watch Clearing House Monograph Series
2	Anonim (2015) Demystiying Green Infrustructure, UK Green Building Council, Report.
3	European Commission (2013) Building a Green Infrustructure for Europe, Report, Belgium.
4	European Environment Agency (2011) Green infrastructure and territorial cohesion: The concept of green infrastructure and its integration into policies using monitoring systems, No: 18, European Environment Agency.
5	Forest Research (2010). Benefits of green infrastructure. Report to Defra and CLG. Forest Research, Farnham.
6	Clemson University Public Service Activities (2008) Rain Gardens: A rain garden manual for South Carolina.
7	Bannerman, R. and Considine, E. (2003) Rain gardens: A how to manual for homeowners. Wisconsin Department of Natural Resources
8	Tuna, R. (2016) Green Roof, Green Wall and More: Green Infrastructure, 387, pp. 12-15, Architecture
9	Hepcan, Ç. C., & Hepcan, S. Urban green infrastructure analysis: Bornova example. Mediterranean Agricultural Sciences, 31 (1), 1-1
10	Demir, D. (2012). Comparison of Conventional Rainwater Management Systems and Sustainable Rainwater Management Systems: ITÜ Ayazağa Campus Sample (Doctoral Dissertation, Institute of Natural and Applied Sciences).
11	Müftüoğlu, V., & Perçin, H. (2015). Rain Garden in the Context of Sustainable Urban Rain Water Management. Inonu

¹¹ University Art and Design Magazine, 5 (11), 27-37.

Week	Weekly Detailed Co	urse Contents
1	Theoretical	Introduction to course: content, reason, importance, process method and needs
2	Theoretical	Green infrastructure concept: Definition, terminology and function
3	Theoretical	Benefits of green infrastructure: economic, social, environmental, hydrological, and ecological
4	Theoretical	Green infrastructure components and systems
5	Theoretical	Green infrastructure planning stages
6	Theoretical	Examination of green infrastructure case studies
7	Theoretical	Rain gardens in green infrastructure systems: Definition, types, functions, and benefits
8	Theoretical	Rain gardens in green infrastructure systems: Definition, types, functions, and benefits
9	Theoretical	Rain gardens design: Determine the locations, size, and depth of the rain gardens.
10	Theoretical	Selection of plants for rain gardens
11	Theoretical	Examination of case studies of rain garden design
12	Theoretical	Students` presentation for the case studies of rain gardens
13	Theoretical	Students` rain garden design



15 Theoretical Students` rain garden design 16 Theoretical Final exam	14	Theoretical	Students` rain garden design	
16 Theoretical Final exam	15	Theoretical	Students` rain garden design	
	16	Theoretical	Final exam	

Workload Calculation

A otivity	Quantity	Draparation	Duration	Total Workland	
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	10	2	168	
Assignment	10				
Midterm Examination 1 9 1					
Final Examination	1	11	1	12	
Total Workload (Hours) 200					
[Total Workload (Hours) / 25*] = ECTS 8					
*25 hour workload is accepted as 1 ECTS					

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Learn	ing Outcomes
1	Learning the definition, function and benefits of green infrastructure systems
2	Learning the components and the planning stages of the green infrastructure system
3	Learning the definition, types, functions and benefits of rain gardens
4	Learning how to design rain gardens
5	Learning how to design rain gardens.
Progr	ramme Outcomes (Landscape Architecture Master)

1	e	
2	e	
3	e	
4	e	
5	е	

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P2	5		4	5	5
P4		4			

