



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF NATURAL AND APPLIED SCIENCES
LANDSCAPE ARCHITECTURE
LANDSCAPE ARCHITECTURE
LANDSCAPE ARCHITECTURE MASTER
COURSE INFORMATION FORM

Course Title	Urban Ecology								
Course Code	ZPM538	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	8	Workload	200 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course	The aim of this course is to explain the concept of urban ecology in the context of urban ecosystem as destroyed ecosystems, to examine the ecological dynamics of the cities within and with their environment, to examine the development of cities in the historical process and the effects of ecology science on urban planning practice.								
Course Content	Natural-semi natural-artificial ecosystems, development and transformation of urban areas in the world, urban-nature relationship, interaction of urban rural and agricultural landscapes, urban development models, urban areas and wildlife, ecological knowledge in urban planning.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study, Individual Study								
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Alberti, M. (2008). Advances in urban ecology: integrating humans and ecological processes in urban ecosystems (No. 574.5268 A4). New York: Springer.
2	Boone, C. G., & Fragkias, M. (Eds.). (2012). Urbanization and sustainability: linking urban ecology, environmental justice and global environmental change (Vol. 3). Springer Science & Business Media.
3	Forman, R.T., 2014. Urban ecology: science of cities. Cambridge University Press.
4	Gaston, K. J. (Ed.). (2010). Urban ecology. Oxford University Press.
5	McHale, M. R., Pickett, S. T. A., Barbosa, O., Bunn, D. N., Cadenasso, M. L., Childers, D. L., ... & Peterson, M. N. (2015). The new global urban realm: complex, connected, diffuse, and diverse social-ecological systems. Sustainability 7: 5211–5240.
6	Kabisch, N., & Haase, D. (2013). Green spaces of European cities revisited for 1990–2006. Landscape and urban planning, 110, 113-122.
7	Niemelä, J., Breuste, J. H., Guntenspergen, G., McIntyre, N. E., Elmqvist, T., & James, P. (Eds.). (2011). Urban ecology: patterns, processes, and applications. OUP Oxford.
8	Pickett, S. T., Cadenasso, M. L., Grove, J. M., Groffman, P. M., Band, L. E., Boone, C. G., ... & Law, N. L. (2008). Beyond urban legends: an emerging framework of urban ecology, as illustrated by the Baltimore Ecosystem Study. BioScience, 58(2), 139-150.
9	Spirn, A. W. (1984). Granite garden. Basic Books.
10	Wu, J. (2014). Urban ecology and sustainability: The state-of-the-science and future directions. Landscape and urban planning, 125, 209-221.
11	Zipperer, W. C., & Pickett, S. T. (2001). Urban Ecology: patterns of population growth and ecological effects. e LS.

Week	Weekly Detailed Course Contents	
1	Theoretical	General information about the course: scope, needs and method
2	Theoretical	The concept of ecology, its development and importance
3	Theoretical	Natural, semi-natural and artificial ecosystems
4	Theoretical	Natural, semi-natural and artificial ecosystems
5	Theoretical	Natural, semi-natural and artificial ecosystems
6	Theoretical	Urban, agricultural, rural landscapes and their relations
7	Theoretical	Emergence and development of cities and urban planning models
8	Theoretical	Emergence and development of cities and urban planning models
9	Intermediate Exam	Midterm exam
10	Theoretical	Urban ecology for the continuity of wildlife
11	Theoretical	Urban ecology for recreational, social and educational functions



12	Theoretical	Theory and applications in planning and urban ecology
13	Theoretical	Theory and applications in planning and urban ecology
14	Theoretical	Practical work, homework presentations and discussion
15	Theoretical	Practical work, homework presentations and discussion
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	2	84
Lecture - Practice	14	4	2	84
Assignment	2	4	1	10
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To know the historical process of the development of urban areas
2	To learn urban development models
3	To understand the importance of ecological planning for wildlife in urban planning
4	To understand the importance of ecological planning for recreational, social and educational functions in urban planning
5	To be able to transfer this information to ecological planning practice by understanding natural-semi natural-artificial ecosystems and their interactions
6	To be able to examine urban problems within the framework of ecology discipline and develop solutions

Programme Outcomes (Landscape Architecture Master)

1	e
2	e
3	e
4	e
5	e

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

	L1	L2	L3	L4	L5	L6
P1	5	5	5	5	5	5
P2	5	5	4	3	4	3
P3	2	4	3	2	5	5
P4	2	3	5	5	5	5
P5	3	3	5	5	5	5

