

SYLLABUS:

PROJECT OF LANDSCAPE ARCHITECTURE-II

Course name: Project of landscape architecture-II
Number of credits: 4.8 ECTS/3 MCTS
Period: Fall semester

Host institution	School of Agroecology, Mongolian University of Life Sciences
Lecturer	Belguun Avgaannamkhaidorj
Level	BSc course
Course type	Core course
Course duration	16 weeks
New/Revised	New
E-course link	https://online.num.edu.mn/dashboard

Summary

Landscape architectural planning will be based on a wide range of goals, such as the creation of parks and green spaces in populated areas, as well as participation in the spatial organization of large regions, the protection and development of the landscape of cities, towns and villages, and the region will be used for housing, industry, including architectural and landscape design in recreational facilities, and planning the aesthetic aspects of people's everyday outdoor environments.

Target student audiences

Bachelor students majoring in Landscape Architecture

Prerequisites

- Required courses (or equivalents): Project of Landscape architecture-I
Park garden planning

Aims and objectives

The purpose of the Landscape Architecture Project II course is to provide theoretical knowledge about the basic concepts of public horticulture, landscaping, and planning through lecture classes, and to acquire professional skills by personally conducting spatial environment research and planning drawings through laboratory classes. By studying this course, it is important for students to acquire the ability to design landscape architecture based on the results of spatial research.

The authentic tasks

After lectures for 2 hours, there will be laboratory practices for 2 hours.

General learning outcomes:

By the end of the course, successful students will:

Knowledge

- ~ Knowledge of requirements for public micro-garden planning
- ~ Selection and discussion of design work requirements, principles, and types of drawings in planning work
- ~ Knowledge of making design samples and materials
- ~ To develop the ability to criticize, analyze and create drawing projects for landscape planning
- ~ Knowledge of proposing a methodology for creating norms and rules in the study of landscape planning works for public purposes

Application	<ul style="list-style-type: none"> ~ Select and use working drawings and critical planning requirements for each purpose of park planning drawings ~ To define the planning of strategy, activities and methods of the project
Analysis	<ul style="list-style-type: none"> ~ Analyzing the requirements of the planning purpose of the design and evaluating the quality of work performance ~ Analyzing the quality of drawings for design and planning work, explaining and mapping design solutions
Synthesis	<ul style="list-style-type: none"> ~ Improve planning quality by selecting proper materials and methods for project of landscape architecture. ~ Make assumptions based on planning work requirements, design solutions and academic research for housing and park garden.
Competences	<p>The course will help students acquire competences, such as:</p> <ul style="list-style-type: none"> ~ Introduction of planning methods and technical requirements for residential and public micro-gardens and parks ~ To improve the design by optimally selecting methodological models used in public design ~ Carry out design work that meets the requirements of the intended standards for planning work ~ Project management and monitoring the performance of working drawings

Overview of sessions and teaching methods

The course will make most of interactive and self-reflective methods of teaching and learning and, where possible, avoid standing lectures and presentations.

Learning methods	<ul style="list-style-type: none"> ~ Video presentations ~ Interviews, surveys, group work, written articles/essay ~ Project Based Learning ~ Literature review
Course outline	<p>Week 1: Spatial organization of urban park gardens Week 2: Principles and methods of calculating green space Week 3: Activities and organization of park gardens in public construction Week 4: Selection of areas for establishing gardens in residential areas Week 5: Requirements for the design of green space in residential areas Week 6: Features of gardens in residential buildings Week 7: Calculating the indicators of green spaces in residential areas Week 8: Residential park garden planning Week 9: Basic requirements of green scape for garden park Week 10: Garden Park Planning Scheme Week 11: General requirements for urban green space planning Week 12: Requirements for the design of urban green spaces Week 13: Landscape characteristics of urban areas Week 14: Environmental protection of reserves, natural parks and forest parks Week 15: Preparation schemes of planning elements, tables, numerical data, descriptions, identification Week 16: Modern trends in the design development of park gardens</p>

Course workload

The table below summarizes course workload distribution:

Activities	Learning outcomes	Assessment	Workload
------------	-------------------	------------	----------

			(hours)
In-class activities			
Lectures	Understanding theories, concepts, methodology and tools	Class participation	32
Moderated in-class discussions	Understanding of the construction and decoration materials for landscape architecture planning and design	Class participation and preparedness for discussions	8
In-class assignments	Understanding of the concept and application of planning projects in different areas	Class participation and preparedness for assignments	8
Reading and discussion of assigned papers for seminars and preparation for lectures	Familiarity with and ability to creatively discuss key concepts, standards and methodologies as presented in the textbook and articles.	Class participation, creative and active contribution to discussion	8
Group presentation	Interpret the design elements, analyze on quality of landscape architectural planning and design	Quality of group assignments and individual presentations	8
Independent work			
Group work Contribution to the group case-study projects	Analyze and explain the landscaping work performed. Knowledge selection of application, and technological methods for planning	Quality of group assignments	30
Course group assignment	Understanding of each topic, students will strengthen their knowledge by answering key questions.	Quality of exams	25
Individual work	Students will be able to independent work on a variety of planning project in computer laboratory using their skills and knowledge	Quality of individual laboratory work	25
Total			144

Grading

The students' performance will be based on the following:

Assessment	Attendance of courses (20 points)				
	Assessment -I (20%):				
	Strengthening the concept of public landscape planning				
	Assessment -II (30%):				
	Understanding of landscape design and landscaping materials				
Assessment	Final examination (30%)				
	Evaluate the planning skills on park garden and green space project, and assess the design elements of the drawings by AvtoCAD in laboratory courses.				
	Total 100 points				

Evaluation EU system	A (8,5 – 10) B (7,0 – 8,4) C (5,5 - 6,9) D (4,0 – 5,4)	Evaluation MN system	95-100	A	4.0
			90-94	A-	3.6
			85-89	B	3.1
			80-84	B-	2.7
			75-79	C	2.3
			70-74	C-	1.9
			65-69	D	1.4
			60-64	D-	1.0

Course schedule

Week	In-class hours	Topic	Type
1	2	~ Spatial organization of urban park gardens	Lecture
	2	Preparation of table data– 1 ~ Preparation of model drawings	Laboratory
2	2	~ Principles and methods of calculating green space	Lecture
	2	~ Preparation of table data - 2	Laboratory
3	2	~ Activities and organization of park gardens in public construction	Lecture
	2	~ Prepare title pages	Laboratory
4	2	~ Selection of areas for establishing gardens in residential areas	Lecture
	2	~ Preparation of drawing scheme	Laboratory
5	2	~ Requirements for the design of green space in residential areas	Lecture
	2	~ Preparation of conclusions and schematic drawings of engineering facilities	Laboratory
6	2	~ Features of gardens in residential buildings	Lecture
	2	~ General plan and project design	Laboratory
7	2	~ Calculating the indicators of green spaces in residential areas	Lecture
	2	~ Design of the general plan of green spaces	Laboratory
8	2	~ Residential park garden planning	Lecture
	2	~ Printing of planning drawings and conclusions	Laboratory
9	2	~ Basic requirements of green scape for garden park	Lecture
	2	~ Flow diagram	Laboratory
10	2	~ Park Planning Scheme	Lecture
	2	~ Execute according to the layout of sections and pages -1	Laboratory
11	2	~ General requirements for urban green space planning	Lecture
	2	~ Execute according to the layout of sections and pages -2	Laboratory
12	2	~ Requirements for the design of urban green spaces	Lecture
	2	~ Execute according to the layout of sections and pages -3	Laboratory
13	2	~ Landscape characteristics of urban areas	Lecture
	2	~ Printing of planning drawings and conclusions	Laboratory
14	2	~ Environmental protection of reserves, natural parks and forest parks	Lecture
	2	~ Make a location of planning elements	Laboratory
15	2	~ Change of natural landscape and organization of recreation	Lecture
	2	~ Preparation schemes of planning elements, tables, numerical data, descriptions, identification	Laboratory
16	2	~ Modern trends in the design development of park gardens	Lecture
	2	~ Publication and conclusion according to the design plan	Laboratory
Lecture 32 Laboratory 32			

Course assignments/tests

At the end of each lectures, there are key questions to reinforce the understanding of the topics, which the students answer to strengthen their knowledge. Although, students will independently complete the tasks of the laboratory course, so that in the laboratory course they will learn to develop landscape design and planning.

Literature

Compulsory:

1. Belguun A. Odongerel S. “Urban landscape architecture” Ulaanbaatar 2022
2. B.Battsagaan (2019) “Construction materials”. Ulaanbaatar

Recommended:

1. БН6Д 21-05-10. Parking rules and regulations
2. БН6Д 23-05-10. Noise isolation
3. БН6Д 30.01.04. Town and village planning. Construction norms and rules.
4. БН6Д 30-02-07. The general plan of construction of the industrial area.
5. БН6Д 32-01-04. Urban street and road planning.
6. БН6Д 3.01.03.88. Landscaping work.
7. БН6Д 3.01.06.90. Building environment Landscaping work.
8. БД31-113-11. Construction planning of elementary school.
9. MNS 5682:2006. Road facilities, Bicycle commuter road. Technical requirements.
10. MNS 5683:2006. Road facilities, Pedestrian paths for people with disabilities. Technical requirements.
11. MNS 5879:2012. Public transport and roadside parking. Classification. Technical requirements
12. MNS 5973:2009. Approach distance of green structures in the planning of buildings and engineering networks.
13. MNS 6055:2009. Guidelines for designing routes for pedestrians and people with disabilities.
14. MNS 6392:2013. Hygienic requirements of the environment of health care institutions.

Training materials:

1. Landscape architectural design map
2. Design of landscape architectural design solutions
3. Documents of the Urban standards, Environmental safety inspection agency
4. AvtoCAD