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Urban Resilience and Adaptation for India and Mongolia:
curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions
619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP

SYLLABUS:

LANDSCAPE DESIGN

Course name: Landscape design
Number of credits: 4.8 ECTS/3 MCTS
Period: Spring semester

Host institution	School of Agroecology, Mongolian University of Life Sciences
Lecturer	Odongerel Sangidorj, Banzragch Dalai
Level	MSc course
Course type	Elective course
Course duration	8 weeks
New/Revised	A newly developed
E-course link	https://online.num.edu.mn/dashboard

Summary

Students will provide the advanced knowledge needed to develop a planning design, identify the most critical factors that influence the development of planning design, and study the impact of planning design on human habitat and health. In addition, students will collect and analyze data information, practical working individually and in groups on making presentations and writing reports.

Target student audiences

Master students majoring in Landscape Architecture

Prerequisites

Required courses (or equivalents): Landscape Design Combinations (Landscape architectural modeling)

Aims and objectives

The main objective of this new master's course is to provide the theory of landscape design and the evolution of urban spatial design, to give knowledge about the understanding of history, art and culture, and methods and techniques for analyzing planning design based on the related research studies and regulations. The content of this course is important to provide the knowledge and skills to understand, describe, and analyze the landscape design process and its effects, and the areas of art they reflect.

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	<ul style="list-style-type: none"> ~ Knowledge of the development of park gardens landscape design ~ Knowledge of the impact of landscape design on the human habitat ~ Knowledge of cultural features, human needs, urban development, attitudes and behaviors, and field analysis factors
Comprehensive	<ul style="list-style-type: none"> ~ Identification of Planning and Design Factors Influencing ~ Comparison of garden and park landscape design ~ Identify and evaluate landscape design trends
Application	<ul style="list-style-type: none"> ~ To analyze on the planning design of park garden (work on example) and determine the current situation
Analysis	<ul style="list-style-type: none"> ~ To develop critical thinking, analysis, and writing skills as they apply to urban park garden landscape architecture planning
Synthesis	<ul style="list-style-type: none"> ~ To describe literature through discussion with classmates; explain topics by oral presentation

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. A combination of different teaching techniques is being used, such as: lectures, seminars, lab works, discussions, individual tasks, reports, surveys, case studies, etc.

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: Histories of ancient gardens Landscape design of park gardens in Asia and Europe</p> <p>Week 2: Asian and European garden design and history Spatial organization in gardens and parks</p> <p>Week 3: Theory of landscape architecture and design Spatial organization in gardens and parks</p> <p>Week 4: The design process and analysis Garden landscape architectural planning and design concept</p> <p>Week 5: The human environment Garden landscape architectural planning and design concept</p> <p>Week 6: Design form Design development and landscape architecture planning</p> <p>Week 7: Design purpose Design development and landscape architecture planning</p> <p>Week 8: Modern landscape design Human impact on the environment</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	18
Moderated in-class	Understanding various policy and legal	Class participation	6

discussions	environment and common problems in urban green space and urban park garden design	and preparedness for discussions	
In-class assignments, field assignment	Understanding various policy and legal environment and common problems in urban green space and urban park garden design	Class participation and preparedness for assignments	4
Reading and discussion of assigned papers for seminars and preparation for lectures	Familiarity with and ability to critically and creatively discuss key concepts, tools and methods as presented in the literature	Class participation, creative and active contribution to discussion	4
Group presentation	Ability to interpret data, analyze on planning, and use the concepts, tools, and methodologies for the urban park garden design	Quality of group assignments and individual presentations	4
Independent work			
Group work: - Contribution to the group case-study projects - Contribution to the preparation and delivery of individual presentation - Contribution to the web-application	Ability to interpret data, to analyze audience, and to use the concepts, tools, and methods for communicating information to all participants Plan and develop an urban green space, and be aware of information visualization tools and methods	Quality of group assignments and individual presentations	36
Course group assignment	Ability to conceptualize and frame a green space planning problems, find related literature and data, and interpret data, using the concepts, tools, and methods covered in the course	Quality of developed EDP and their presentation	36
Group presentation	Ability to interpret data, analyze the green space planning, and use the concepts, tools, and methods of planning	Quality of group assignments and individual presentations	36
Total			144

Grading

The students' performance will be based on the following:

Assessment	<p>1. Quizzes (30 points) There will be five quizzes in practical sessions that will be worth 5% (x2) and 10% (x2) each. Quizzes will be short-answer written quizzes of 20 minutes in duration. Written feedback will be provided in the following practical.</p> <p>2. Discussion (40 points) Assignment 1 (20 points) and 2 (20 points) will be an oral discussion of a scientific paper chosen by the student and presented through a power point presentation, followed by few questions about the topics discussed during the course. Assessment criteria are based on presentation quality and content understanding, knowledge of the main concepts given during the course.</p> <p>3. Final Exam (30 points) A hour exam in the end of semester exam period that will draw on material from both lectures and practicals.</p> <p>Total 100 points</p>
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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
			0-59	F	0.0

Course schedule

Week	In-class hours	Topic	Type
1	2	~ Histories of ancient gardens	Lecture
	2	~ Landscape design of park gardens in Asia and Europe	Seminar
2	4	~ Asian and European garden design and history	Lecture
	2	~ Spatial organization in gardens and parks	Seminar
3	2	~ Theory of landscape architecture and design	Lecture
	2	~ Spatial organization in gardens and parks	Seminar
4	2	~ Design process and analysis	Lecture
	2	~ Garden landscape architectural planning and design concept	Seminar
5	2	~ The human environment	Lecture
	2	~ Garden landscape architectural planning and design concept	Seminar
6	2	~ Design form	Lecture
	2	~ Design development and landscape architecture planning	Seminar
7	2	~ Design purpose	Lecture
	2	~ Design development and landscape architecture planning	Seminar
8	2	~ Modern landscape design	Lecture
	4	~ Human impact on the environment	Seminar
Lecture 18 Seminar 18			

Course assignments/tests

Course assignments will consist of a multi-part project:

- ~ **Assignment 1:** History of European and Asian Gardens: History, philosophy, and design.
Instruction: this will entail a more self-organizing activity for the students. Students will learn about the early history and development of landscape design in great gardens in Asia and Europe. This will involve conducting desktop surveys, gathering information, analyzing, and making a presentation. Students will develop and submit at least 4-5 pages of the draft management plan prior to topic 5, and it will be discussed in class during topic 5.
- ~ **Assignment 2:** Landscape design and comparison of large parks in Mongolia.
Instruction: this will entail a more self-organizing activity for the students. Students will be able to compare and contrast design and design approaches in some urban parks. This will involve conducting desktop surveys, gathering information, analyzing, and making a presentation. Students will develop and submit at least 6-7 pages of the draft management plan prior to topic 8, and it will be discussed in class during topic 8.

Literature

Compulsory:

1. Odongerel.S, (2021) “The History of Landscape Architecture”, Ulaanbaatar, pp-150

Recommended:

1. “Mongolia’s construction norms and regulations” BNbD 30-01-04
2. “Urban gardening and landscaping planning”, UCS 0801A:2020
3. Antonio Missiroli, Gerald Stang, Jan Joel Andersson, Cristina Barrios, Florence Gaub, Eva Gross, Patryk Pawlak, Eva Pejsova, Nicu Popescu and Thierry Tardy, (2014) “The human environment”, European Union Institute for Security Studies.
4. Johannes Renes “Layered Landscapes A Problematic Theme in Historic Landscape Research”, Amsterdam University Press.
5. Laura Menatti, (2017) “From common good to human right”, International Journal of the Commons.