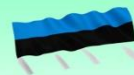




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Urban Resilience and Adaptation for India and Mongolia:
curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions
619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP

ECOLOGY OF URBAN WOODY PLANTS

Introduction to the course ARCH708



Doctor Otgonsuren BURENJARGAL
School of Agroecology, Mongolian University of Life Sciences
<https://online.num.edu.mn/courses>

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Course name: Ecology of urban woody plants
 Number of credits: 6 ECTS/3 MCTS
 Period: Fall/Spring semester

Host institution	Mongolian University of Life Sciences, School of Agroecology
Lecturer	Burenjargal Otgonsuren, Odongerel Sangidorj
Level	MSc course
Course type	Elective course
Course duration	8 weeks
New/Revised	A newly developed
E-course link	

Target student audiences

- ✓ Master students majoring in landscape architecture
- ✓ Open for life-long learners who are interesting in ecology of urban woody plants and its application at the fundamental level.

Summary

The Master course covers urban woody plants and air pollution and their relation, carbon sequestration by urban trees, soil and impact on soil quality, woody plants and water relation, water regulation service, urban woody plants and their relation on light, benefits of urban green space on improving the urban climate, heat island and the role of urban greening, role of urban forests in residents health, value and assessment of urban forests.

Aims and objectives

The course aims to provide knowledge about woody plant ecology in urban area and urban green zone forest ecology particular reference to the responses of woody plants to urban environmental factors and to woody plant life strategies and methods to identify and analyze affecting factors.

Prerequisites

Required courses (or equivalents):
ECO238, Landscape architecture ecology

The authentic tasks

Two-hour lecture is followed by a practical session.

General learning outcomes:

By the end of the course, successful students will:

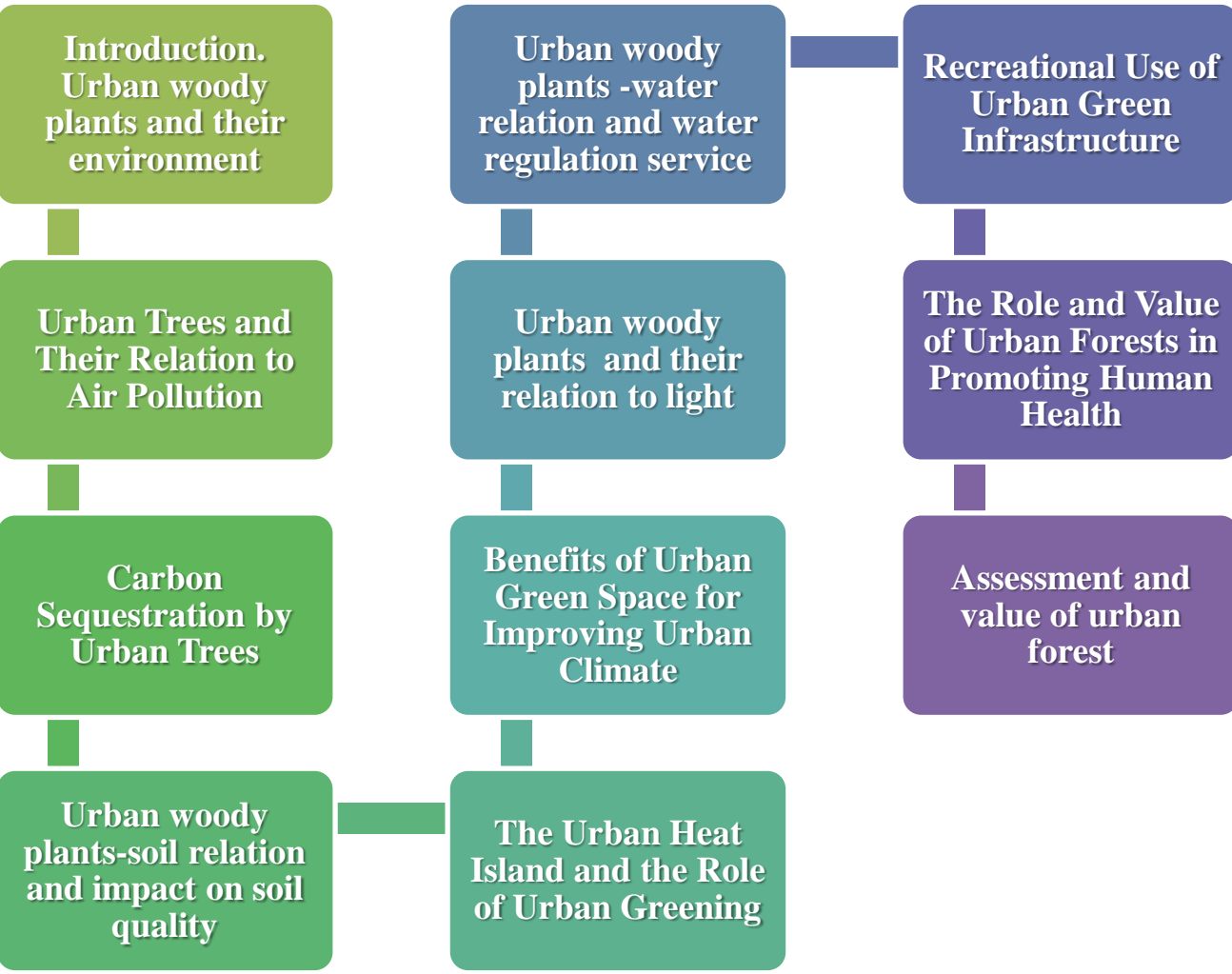
Knowledge	<p>The course provides the students with the knowledge of:</p> <ul style="list-style-type: none"> Knowledge of urban woody plant species and their environment Knowledge of the factors influencing the growth of urban woody plants Knowledge of urban woody plant ecosystem services
Application	<p>employ hypotheses based on scholarly reading, formulate and test hypotheses through experimental work in urban woody plant ecology</p>
Analysis	<p>develop critical thinking, analysis, and writing skills as they apply to urban woody plant ecology</p>
Synthesis	<p>describe literature through discussion with classmates; explain topics in through oral presentation</p>
Competences	<p>The course will help students acquire competences, such as:</p> <ul style="list-style-type: none"> Identify urban environmental factors affecting urban woody plant growth Ecological analysis of urban woody plant environment Defining and assessing urban forest effects and values

Grading

The students' performance will be based on the following:

1. Quizzes (30%)
 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.
2. Discussion (40%)
 There 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.
3. Final Exam (30%)
 A hour exam in the end of semester exam period that will draw on material from both lectures and practicals.

Assessment	Evaluation EU system	Evaluation MN system	95-100	A	4.0
			90-94	A-	3.6
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	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



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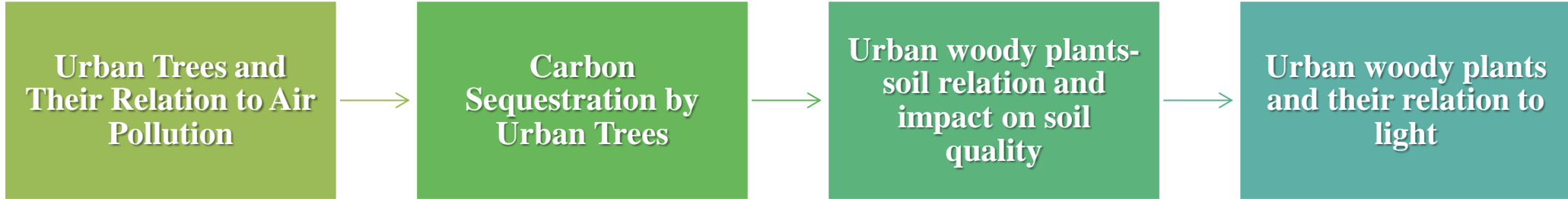
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 curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions

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curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions

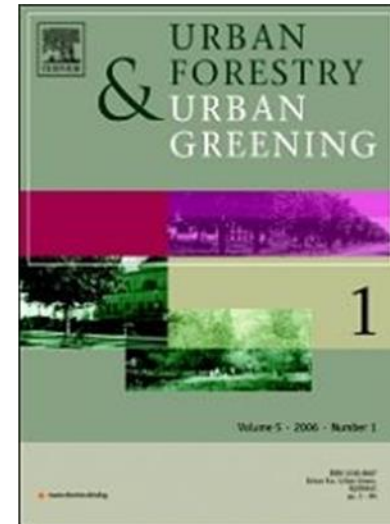
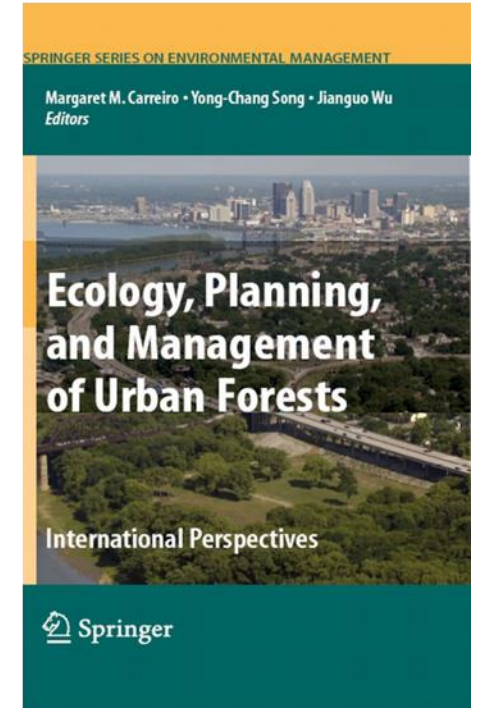
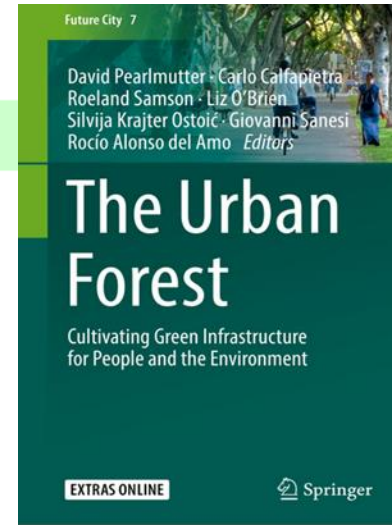
Literature

Compulsory:

1. David Pearlmutter Carlo et al. "The Urban Forest" 2017
2. Margaret M et al. "Ecology, Planning, and Management of Urban Forests" 2008

Recommended:

3. Journal of Urban greening and Urban forestry
<https://www.sciencedirect.com/journal/urban-forestry-and-urban-greening>

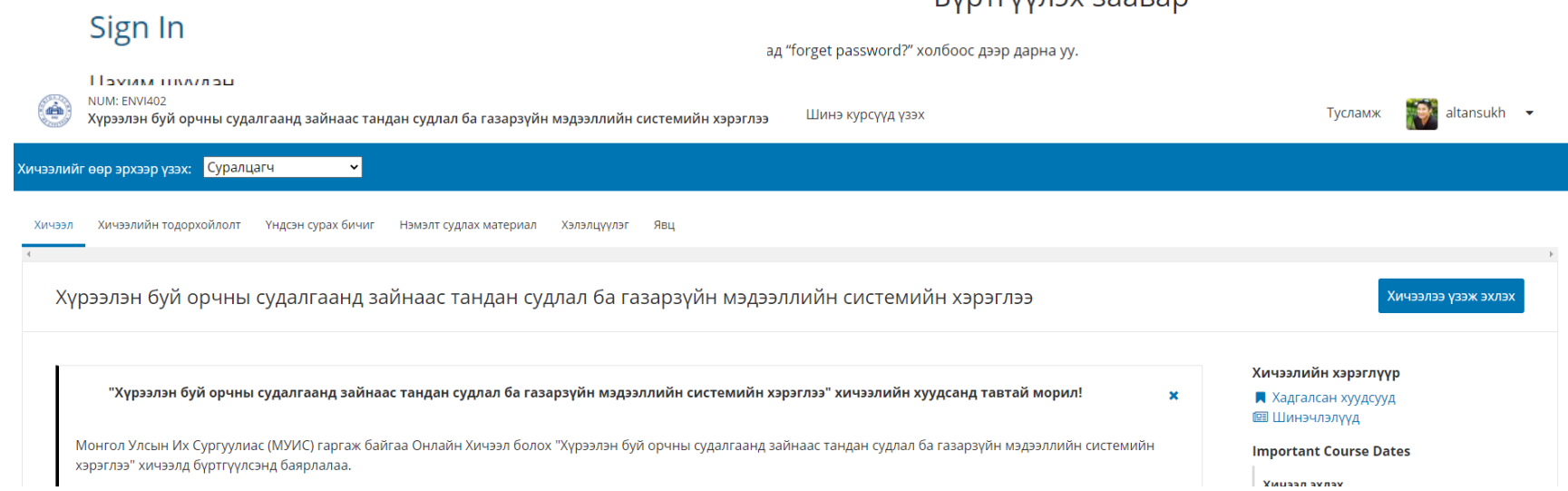


The course will conduct online form that means students no longer needed to come to the university for the lecture class. For the laboratory work, students can come to the class, if they need. GIS laboratory will be available during the course. Most of the interactive and self-reflective methods of teaching-learning will be applied to the course, where possible, avoid standing lectures and presentations. All video lectures, and laboratory works were prepared and embedded in OpenEDX based online learning platform of the university.

How to attend an E-course:

- <https://online.num.edu.mn/>
- Select a course. ARCH708
- Register the course. Enroll in ARCH708
- The follow the steps to Register the OpenEDX system.
- After changing the password, enter the e-learning system.
- Enter the course

Бүртгүүлэх заавар



The screenshot shows the 'Sign In' page of the OpenEDX system. At the top, there is a navigation bar with the text 'НЭВЧИМ ШИВЛЭЛЭГ' and 'NUM: ENV1402'. Below this, there is a search bar with the text 'Хүрээлэн буй орчны судалгаанд зайнаас тандан судлал ба газарзүйн мэдээллийн системийн хэрэглээ' and a dropdown menu for 'Суралцагч'. The main content area displays the course title 'Хүрээлэн буй орчны судалгаанд зайнаас тандан судлал ба газарзүйн мэдээллийн системийн хэрэглээ' and a button 'Хичээлээ үзэж эхлэх'. A notification box on the left states: '“Хүрээлэн буй орчны судалгаанд зайнаас тандан судлал ба газарзүйн мэдээллийн системийн хэрэглээ” хичээлийн хуудсанд тавтай морил!' and mentions 'Монгол Улсын Их Сургуулиас (МУИС) гаргаж байгаа Онлайн Хичээл болох “Хүрээлэн буй орчны судалгаанд зайнаас тандан судлал ба газарзүйн мэдээллийн системийн хэрэглээ” хичээлд бүртгүүлсэнд баярлалаа.' On the right, there is a sidebar with 'Хичээлийн хэрэглүүр' and 'Important Course Dates'.

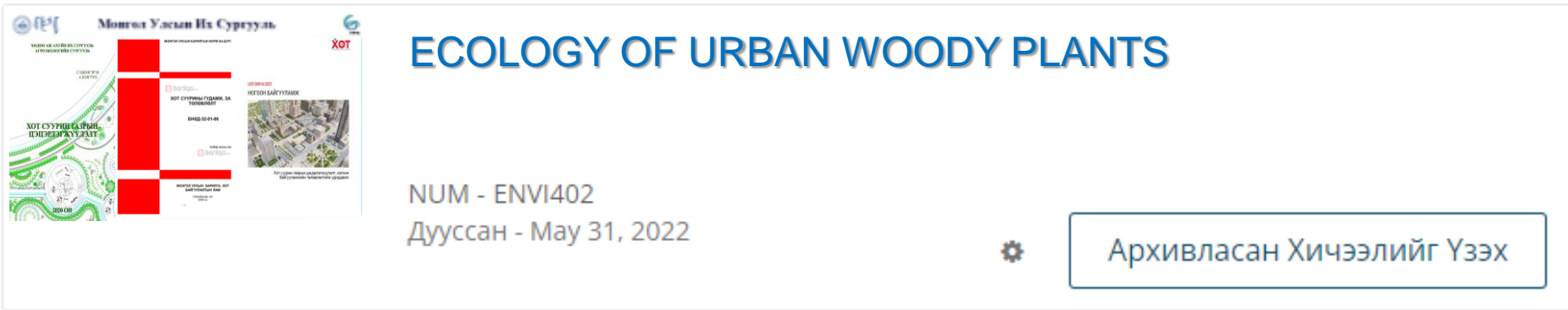
E-course component:

1. About course
2. Lecture and laboratory video – key questions
3. Syllabus
4. Core study book
5. Additional study materials
6. Discussion
7. Assignment and result

Cause of the e-course, students can attend the class anytime and anywhere in the term.

Online course

<https://online.num.edu.mn/courses/course-v1:NUM+ENVI402+2022/course/>



Sign-in the e-course using e-mail.

Sign In

Цахим шуудан

****@stud.num.edu.mn

'МУИС-ийн цахим хичээл' -д МУИС-ийн албан ёсны цахим шуудан ашиглана.

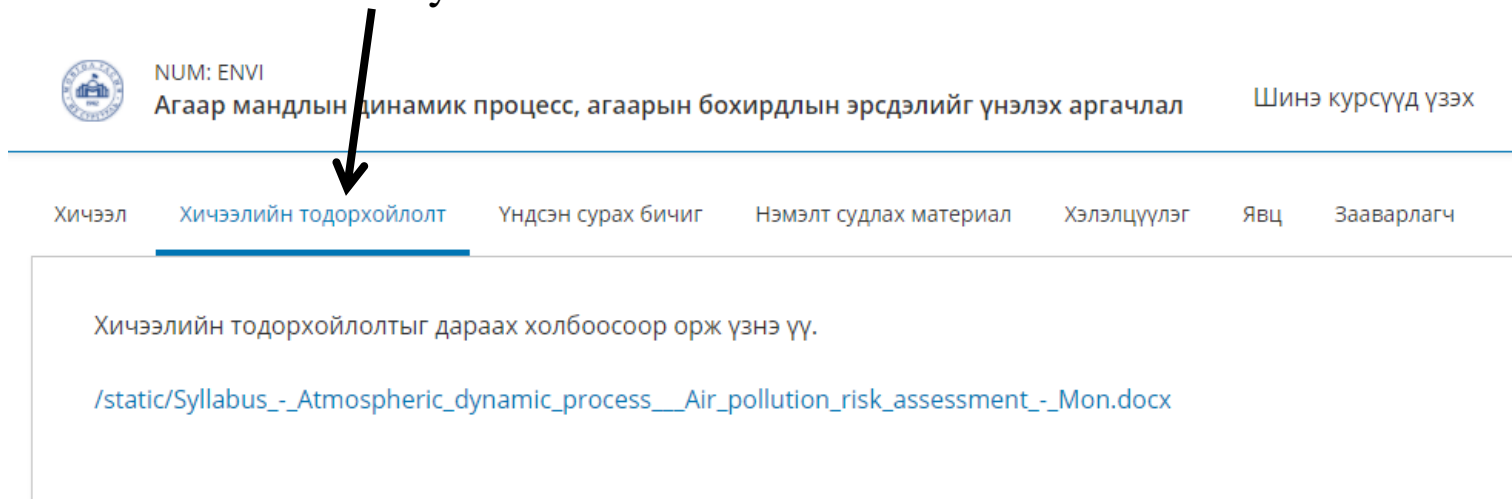
Нууц үг

[Forgot password?](#)

Remember me

Sign in

See and download syllabus



List of all lectures look like this.

To start to see lecture, press here

All lecture and laboratory videos look like this.

Илтгэл

[Bookmark this page](#)

Лаборатори 1: Газарзүйн солбицол, байр зүйн зураг

ENVI402 Лаб 1 Байрзүйн зураг

1:100 000 масштабын байр зүйн зургийн планшетын байрлал

© Professor O.Altansukh, School of Engineering and Applied Sciences, National University @МУИС, бүх эрхийг хуулиар хамгаалсан

Students post question, if they have

Хичээлийг өөр эрхээр үзэх:

Хичээл | Хичээлийн тодорхойлолт | Үндсэн зурах бичиг | Нэмэлт судлах материал | Хэлэлцүүлэг | Явц

Хичээл 1: Агаар мандлын динамик
Хичээл > процессын тухай > Төгц > Асуулт, хариулт

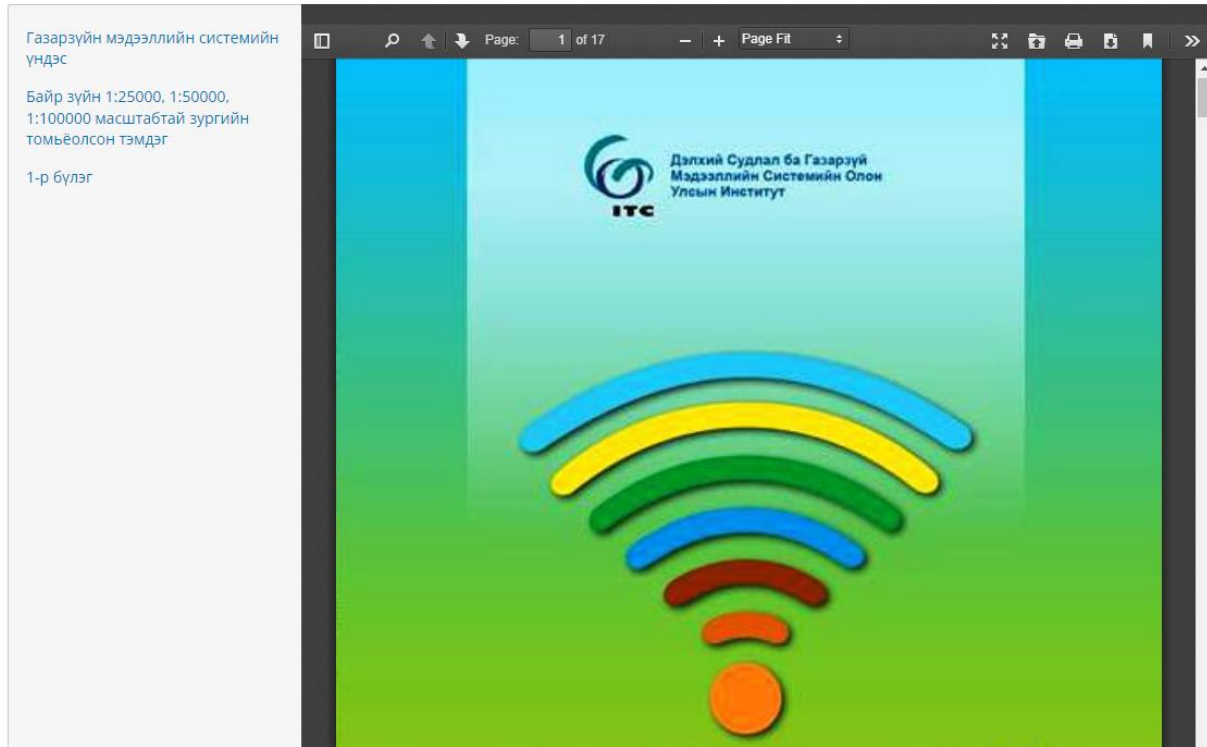
Асуулт, хариулт
[Bookmark this page](#)

Хэлэлцүүлэг
Сэдэв: Week 1 / Topic-Level Student-Visible Label

There are no posts in this topic yet.

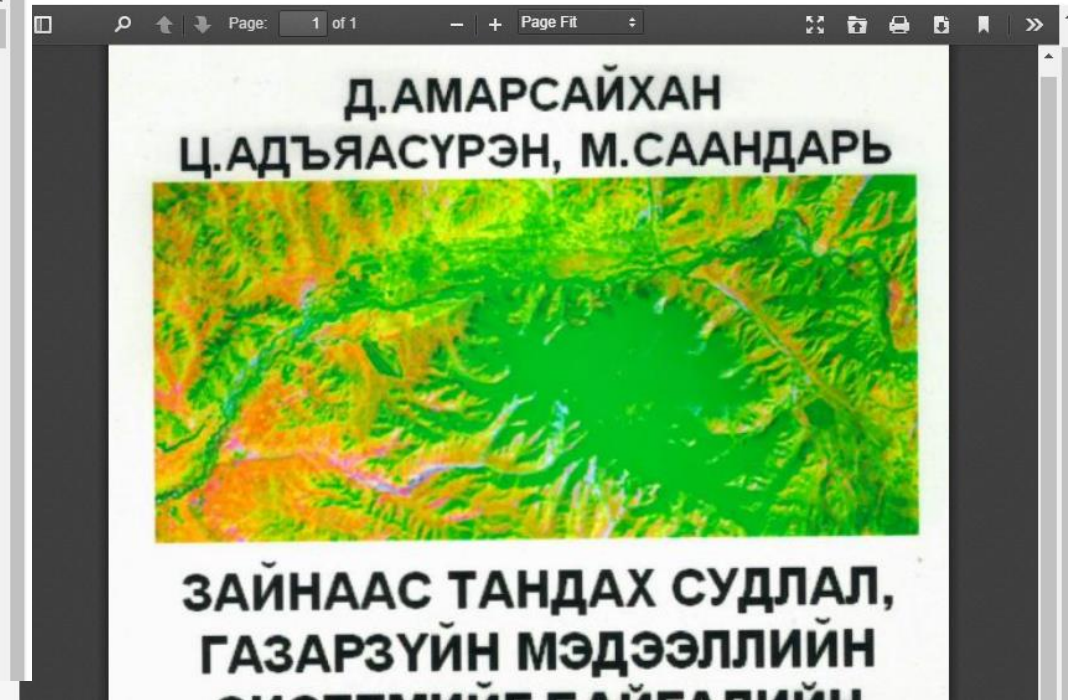
Core study book

Хичээл Хичээлийн тодорхойлолт Үндсэн сурах бичиг Нэмэлт судлах материал Лаборатори Хэлэлцүүлэг Явц Зааварлагч



Additional study materials

Үндсэн сурах бичиг Нэмэлт судлах материал Лаборатори Хэлэлцүүлэг Явц Зааварлагч



Discussion section

Хичээл Хичээлийн тодорхойлолт Үндсэн сурах бичиг Нэмэлт судлах материал **Хэлэлцүүлэг** Явц Зааварлагч

All Topics Бичлэг нэмэх Search all posts Search

Сэдвүүдийг Шүүх
сэдвүүдийг шүүх

Бүх хэлэлцүүлэг

★ Миний дагаж байгаа бичлэгүүд

Week 1

Topic-Level Student-Visible Label (2)

Topic-Level Student-Visible Label (9)

Topic-Level Student-Visible Label (3)

Topic-Level Student-

Discussion Home
Агаар мандлын динамик процесс, агаарын бохирдлын эрсдэлийг үнэлэх аргачлал

How to use 'МУИС-ийн цахим хичээл' discussions

Find discussions	Use the All Topics menu to find specific topics.	Search all posts	Filter and sort topics
Engage with posts	Vote for good posts and responses	Report abuse, topics, and responses	Follow or unfollow posts
Receive updates	<input type="checkbox"/> Check this box to receive an email digest once a day notifying you about new, unread activity from posts you are following.		

Assignment and result

NUM: ENVI
Агаар мандлын динамик процесс, агаарын бохирдлын эрсдэлийг үнэлэх аргачлал Шинэ курсууд үзэх

Тусламж altansukh

Хичээлийг өөр эрхээр үзэх: Суралцагч

Хичээл Хичээлийн тодорхойлолт Үндсэн сурах бичиг Нэмэлт судлах материал Хэлэлцүүлэг **Явц**

Course Progress for Student 'altansukh' (altansukh@num.edu.mn) [СТУДИД ДҮНГ ХАРАХ](#)

Assignment	Progress
IX 01	0%
IX 02	0%
IX 03	0%
IX 04	0%
IX 05	0%
IX 06	0%
IX 07	0%
IX 08	0%
IX 09	0%
IX 10	0%
IX 11	0%
IX 12	0%
IX 13	0%
IX 14	0%
IX 15	0%
IX 16	0%
IX Август	0%
C 01	0%
C 02	0%
C 03	0%
C 04	0%
C 05	0%
C 06	0%
C 07	0%
C 08	0%
C 09	0%
C 10	0%
C 11	0%
C 12	0%
C 13	0%
C 14	0%
C 15	0%
С. Дүнлэг	0%
УШ	0%
Total	0%



THANKS FOR YOU ATTENTION