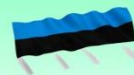




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Urban Resilience and Adaptation for India and Mongolia: curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions 619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP

# URBAN GREEN SPACE SYSTEM PLANNING

Introduction to the course  
LMD 372



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

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Course name: **Urban green space system planning**  
 Number of credits: 4.8 ECTS/3 MCTS  
 Period: Fall semester

Host institution	School of Agroecology, Mongolian University of Life Sciences
Lecturer	Odongerel Sangidorj
Level	BSc course
Course type	Core course
Course duration	16 weeks
New/Revised	Revised
E-course link	<a href="https://online.num.edu.mn/dashboard">https://online.num.edu.mn/dashboard</a>

## Target student audiences

- ✓ Bachelor students majoring in Landscape Architecture
- ✓ Open for life-long learners who are interesting in urban green space planning and its application at the fundamental level.



## Summary

Students will provide the knowledge on general requirements for urban green space planning, classification of green areas, the purpose of planning, planning guidelines and standards, planning methods and techniques for children's playgrounds, outside of schools, streets and parks, and residential areas, roads and streets.

## Aims and objectives

The main course objective is to provide lectures on the classification of urban green spaces and the basic concept of the purpose, teach them how to plan the green spaces by standard methods in the computer laboratory and provide major skills and knowledge.

## Prerequisites

Required courses (or equivalents):  
LMD367, Computer mapping architecture- II

## The authentic tasks

After lectures for 2 hours, there will be laboratory practices for 4 hours.

### General learning outcomes:

By the end of the course, successful students will:

<b>Knowledge</b>	<p>The course provides the students with the knowledge of:</p> <ul style="list-style-type: none"> <li>~ Knowledge of the fundamentals and importance of urban green space</li> <li>~ Knowledge of the general requirements for urban green space planning</li> <li>~ Knowledge of the classification and purpose of urban green space</li> <li>~ Use of the guidelines and standards on green space planning</li> </ul>
<b>Application</b>	<ul style="list-style-type: none"> <li>~ To plan the urban green spaces for each <u>purposes</u> based on classifications and standards</li> </ul>
<b>Analysis</b>	<ul style="list-style-type: none"> <li>~ To develop critical thinking, analysis, and writing skills as they apply to Urban green space system planning</li> </ul>
<b>Synthesis</b>	<ul style="list-style-type: none"> <li>~ To describe literature through discussion with classmates; explain topics by oral presentation</li> </ul>
<b>Competences</b>	<p>The course will help students acquire <u>competences</u>, such as:</p> <ul style="list-style-type: none"> <li>~ Conduct urban landscaping research and partial planning</li> <li>~ Mapping and identifying the urban green space planning models</li> <li>~ Design of green areas according to purpose and standards</li> <li>~ Monitoring the planning in accordance with <u>guidances</u> and standards</li> </ul>

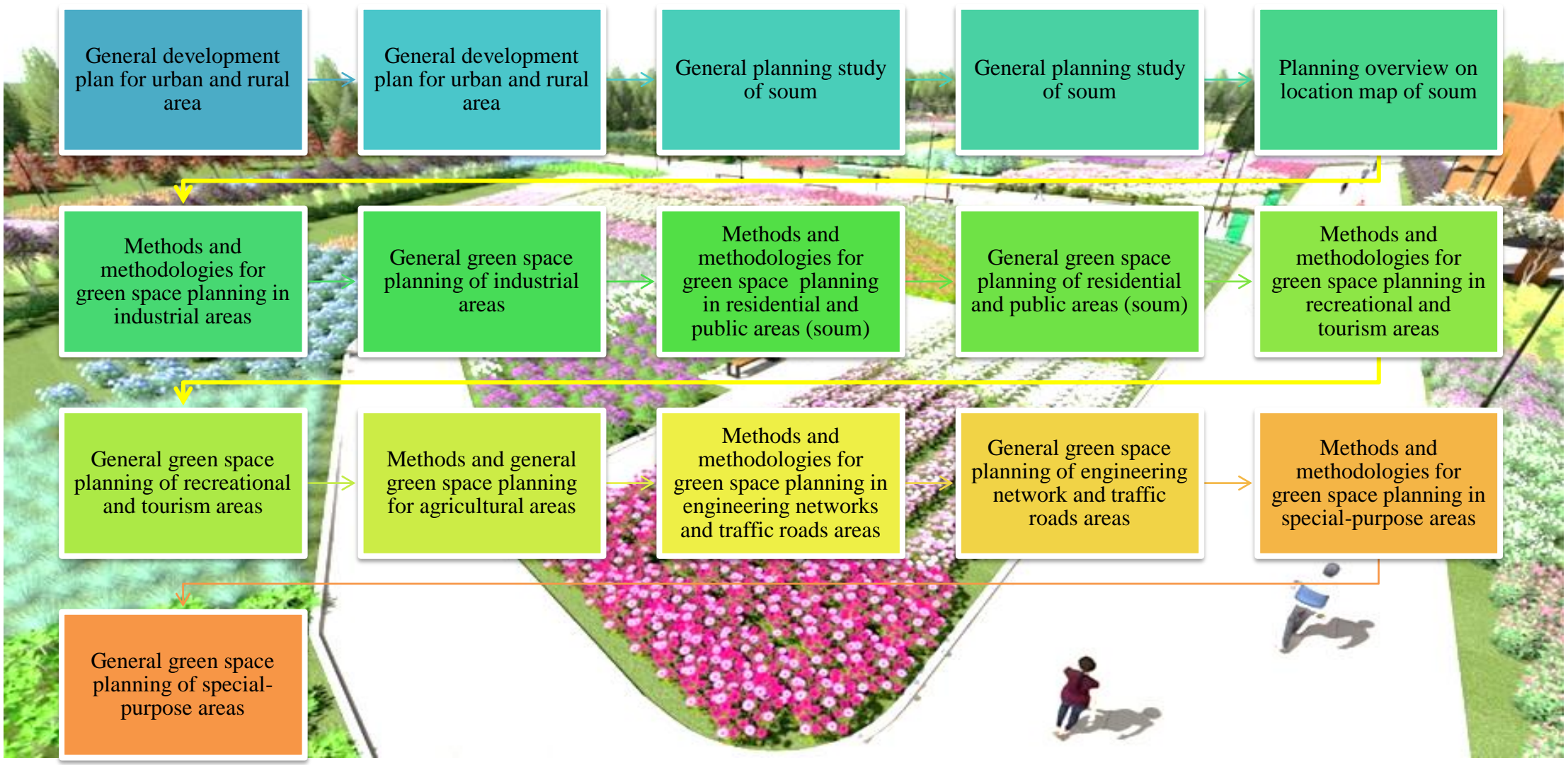
## Grading

The student's performance will be based on the following:

Assessment	<p><b>Quiz or exercise (40%):</b></p> <ul style="list-style-type: none"> <li>~ Exercise (20%): students have to complete the quiz or exercise <u>of</u> each topic.</li> <li>~ Homework (20%): 5, 9 <u>and</u> 12 seminars have additional assignments.</li> </ul> <p><b>Assessment (30%):</b></p> <ul style="list-style-type: none"> <li>~ Group report <u>consist</u> of three assessments: At the end of the laboratory class, students will be divided into groups, and develop general green space planning of the soum including and completing the group report according to the specific requirements of each topic.</li> </ul> <p><b>Final examination (30%)</b></p>				
	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 90-94 85-89 80-84 75-79 70-74 65-69 60-64 0-59	A A- B B- C C- D D- F

Course schedule - Lecture	Importance of urban green space planning
	General requirements for urban green space planning
	Classification and purpose of green space
	Classification and purpose of green space
	Guidelines and standards for urban green space planning
	Public space design and standards
	School's outside green space planning
	Children's playground planning and requirements

Hospital green space planning and requirements
Tourist camp green space planning
Park garden planning
Boulevards planning
Road traffic green space planning
Residence green space planning
Street and road green space planning
Street and road green space planning



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## Literature

### Compulsory:

1. S.Odongerel, A.Belguun (2020) “Urban gardening” handbook, Ulaanbaatar, 49 pages

### Recommended:

1. Parliament, (2008) Mongolian Urban Development Law, Ulaanbaatar
2. Methodology for developing general urban development plans, Ulaanbaatar, 2000
3. Norms and rules of urban planning and construction ”BNbD 30-01-04
4. Urban gardening and green space planning, UCS 0801A: 2022

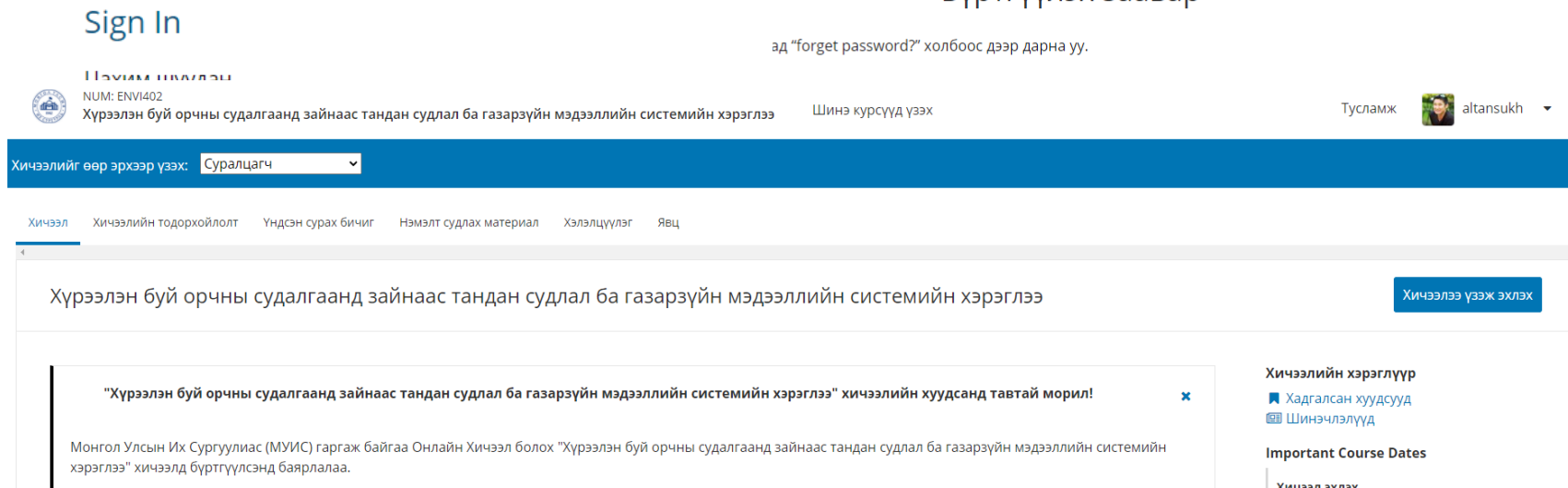


The course will conduct online form that means students no longer needed to come to the university for the lecture class. For the laboratory work, students can come to the class, if they need. GIS laboratory will be available during the course. Most of the interactive and self-reflective methods of teaching-learning 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. LMD 372
- Register the course. Enroll in LMD 372
- 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 interface for the course. At the top, there is a 'Sign In' header and a link for 'ад "forget password?" холбоос дээр дарна уу.' Below this, the course name 'Хүрээлэн буй орчны судалгаанд зайнаас тандан судлал ба газарзүйн мэдээллийн системийн хэрэглээ' is displayed along with the user ID 'NUM: ENV1402'. A search bar is present with the dropdown menu set to 'Суралцагч'. A navigation menu includes 'Хичээл', 'Хичээлийн тодорхойлолт', 'Үндсэн сурах бичиг', 'Нэмэлт судлах материал', 'Хэлэлцүүлэг', and 'Явц'. The main content area features a message box: '"Хүрээлэн буй орчны судалгаанд зайнаас тандан судлал ба газарзүйн мэдээллийн системийн хэрэглээ" хичээлийн хуудсанд тавтай морил!' and a 'Хичээлээ үзэж эхлэх' button. A sidebar on the right contains 'Хичээлийн хэрэглүүр' with links for 'Хадгалсан хуудсууд' and 'Шинэчлэлүүд', and 'Important Course Dates'.

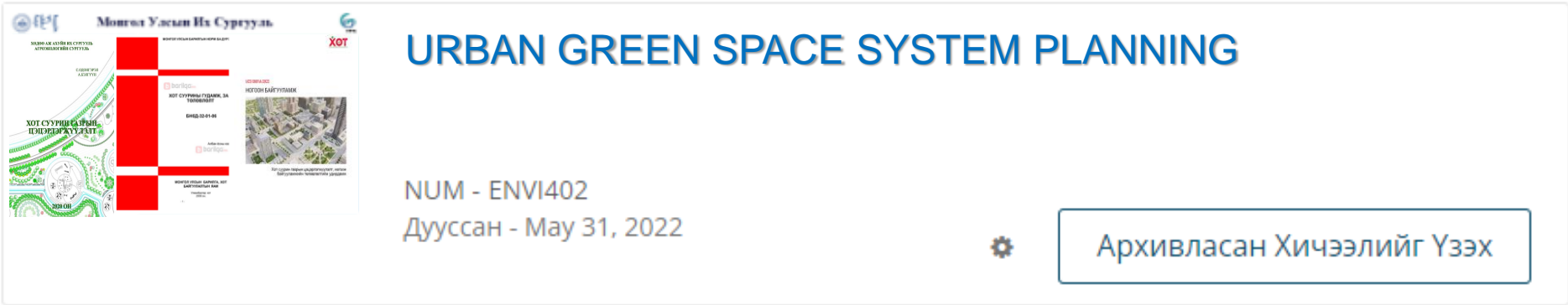
## E-course component:

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.

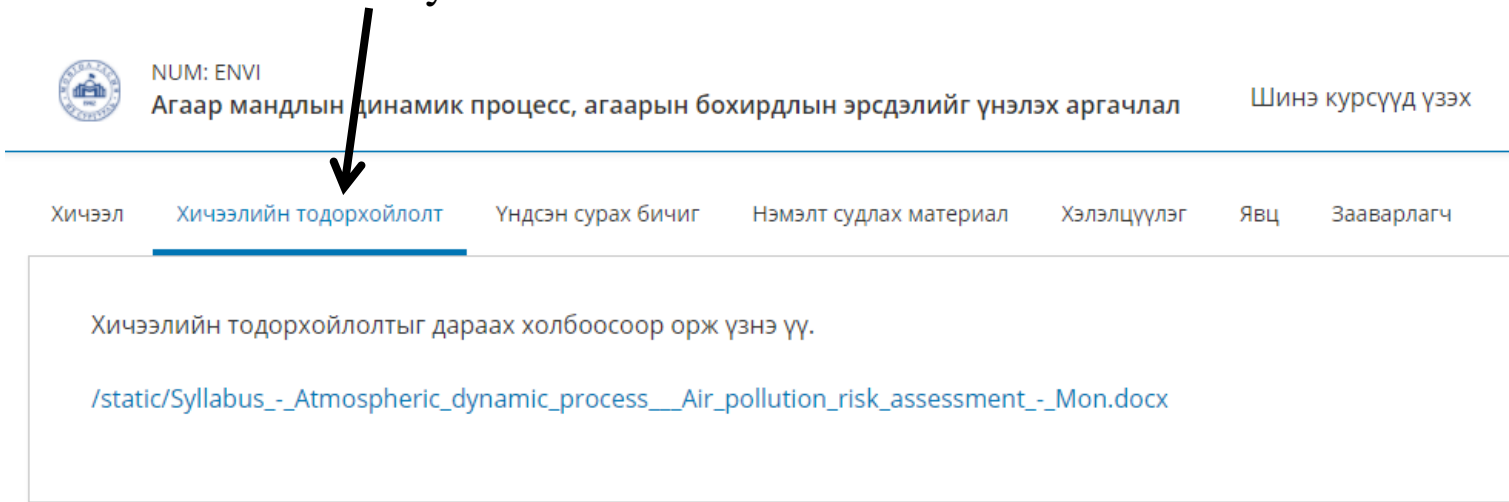
Нууц үг

[Forgot password?](#)

Remember me

**Sign in**

See and download syllabus



List of all lectures look like this.

To start to see lecture, press here

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

Хичээлийг өөр эрхээр үзэх: Суралцагч

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

Агаар мандлын динамик процесс, агаарын бохирдлын эрсдэлийг үнэлэх аргачлал

Expand All

Хичээлийн хэрэглүүр  
 ■ Хадгалсан хуудсууд  
 ■ Шинэчлэлүүд

Important Course Dates  
 Today is Jan 8, 2021 17:53 +08

Хичээл дуусах  
 in 1 жил - Dec 31, 2021

Энэ огнооны дараа хичээлийн агуулга архивлагдана.

- Хичээл 1: Агаар мандлын динамик процессын тухай
- Хичээл 2: Наран дээрх урвал, нарны цацраг
- Хичээл 3: Дэлхийн гадарга дээрх агаарын даралтын хуваарилалт
- Хичээл 4: Даралтын хэвтээ градиант, салхи
- Хичээл 5: Агаарын масс
- Хичээл 6: Агаарын температур
- Хичээл 7: Агаарын чийг, чийгшлийн хэмжигдэхүүнүүд
- Хичээл 8: Хур тунадас
- Хичээл 9: Цаг агаарыг урьдчилан тооцоолох математик статистикийн арга
- Хичээл 10: Агаарын бохирдлын цаг агаарын нөхцөлийг прогнолох
- Хичээл 11: Хотын агаарын бохирдлын дэвсгэр нөхцөлийг прогнолох

Илтгэл  
 ■ Bookmark this page

Лекц 1: ГМС-ийн удиртгал

ENVI402 Лекц 1: ГМС-ийн удиртгал

Зураг 1.1: Эн Нинэ үзэгдэл

Эзүү талын зураг нь 1997 оны 12-р сарын Эн Нинэ үзэгдлийг, баруун талын зураг нь 1998 оны 12-р сарын Ли Нина үзэгдлийг дүрсэлж, Далайн усны гадаргын өндөрлөг температурыг өснөр, салхины дундаж хүчийг суларч дүрсэлж үзүүлсэн. Доод талын хоёр зураг нь аномаль (сэтгэн байдлаас хэцүү) хэлбэрийг илтгэн, Эзүү доод бүлэг Шинэ Гвинея орныг тусгалсан.

Дунд зурагнууд: Далайн усны гадаргын абсолют дундаж температур [°C] ба салхины хүч [м/сек]

Доод зурагнууд: Дээрх хоёр үзүүлэлтүүдийн аномаль хэлбэр буюу хэвийн байдлаас гялсан байдал

Эх сурвалж: Далайн болон агаар мандалын үндэсний захирал, Номхон далайн хэрэгтэн буй орны лаборатори, Тропик орчмын агаар мандал, далайн судалгааны төсөл

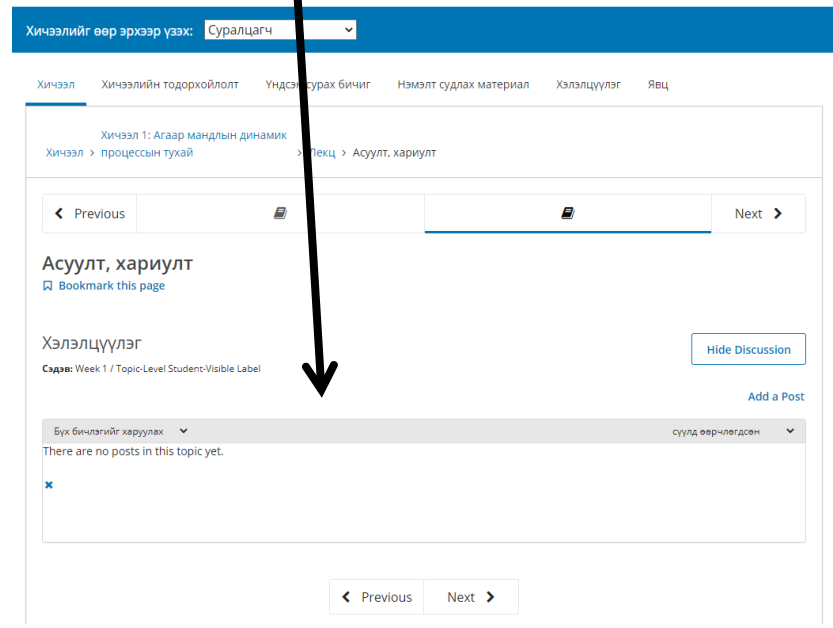
All lecture and laboratory videos look like this.

Илтгэл  
[Bookmark this page](#)

Лаборатори 1: Газарзүйн солбицол, байр зүйн зураг

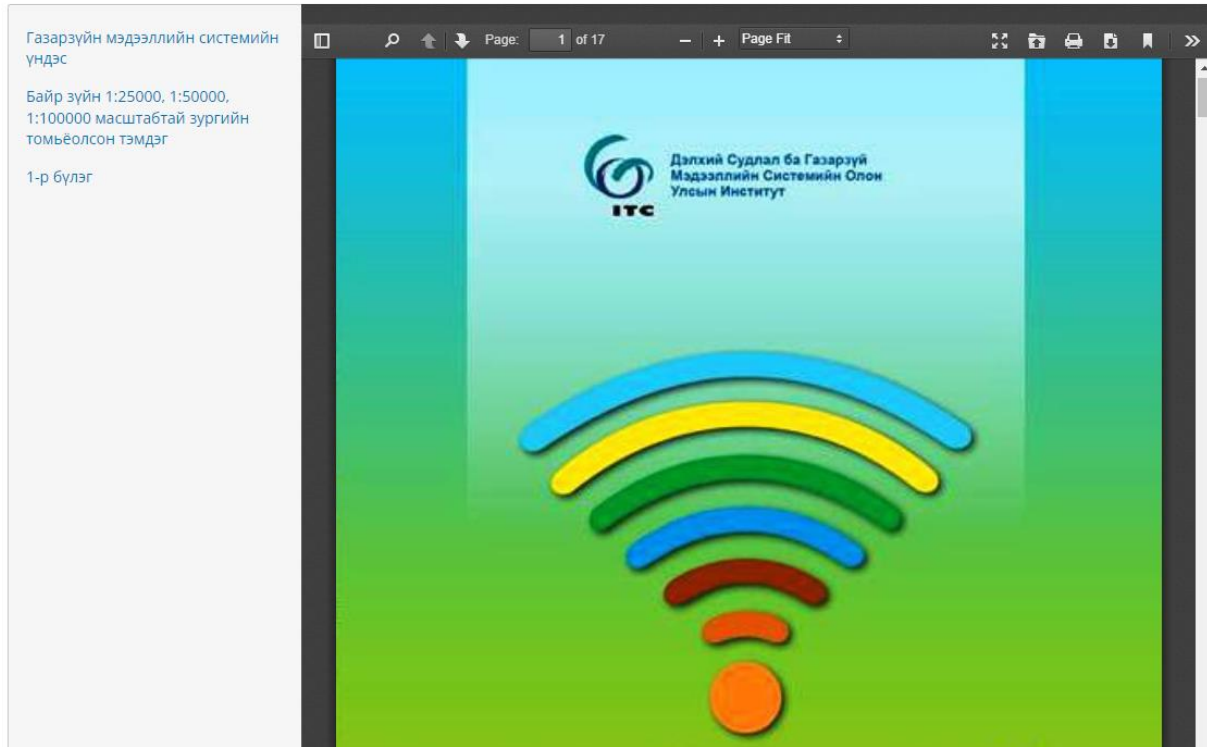


Students post question, if they have



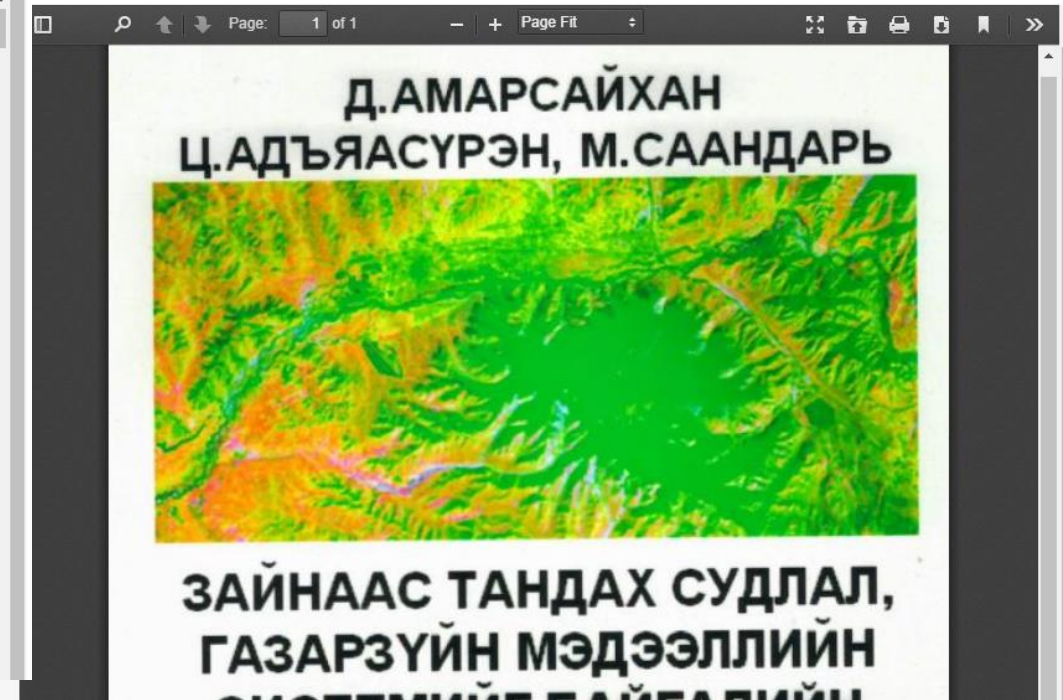
## Core study book

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

<b>Find discussions</b>	Use the All Topics menu to find specific topics.	Search all posts	Filter and sort topics
<b>Engage with posts</b>	Vote for good posts and responses	Report abuse, topics, and responses	Follow or unfollow posts
<b>Receive updates</b>	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**

Course Unit	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 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%



