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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

NATURE CONSERVATION AND SPECIAL PROTECTED AREAS MANAGEMENT

Introduction to the course
ENVI802

Associate Professor Namsrai Oyunchimeg
National University of Mongolia
https://online.num.edu.mn/courses/course-v1:NUM+ENVI402+2022/course/

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Course name: Nature conservation and special protected area management
Course index: ENVI802
Number of credits: 3 ECTS/6 MCTS
Period: Fall/Spring semester

Host institution	National University of Mongolia, School of Engineering and Applied Sciences
Lecturer	Associate professor Namsrai Oyunchimeg
Level	Ph.D. course
Course type	Major compulsory course
Course duration	12 weeks
New/Revised	Revised course. The previous course was developed in 2015
E-course link	https://online.num.edu.mn/dashboard
Language	Available in Mongolian language only

Target student audiences

Open for life-long learners who are interesting in nature conservation.

~ PhD students who are majoring in environmental science, nature conservation and protected areas management.

~ Life-long learners who are interested in nature conservation and special protected area's management.

Summary

In addition to introducing the basic concepts of nature conservation and the main tools of nature conservation, this course will explore in depth the management of special protected areas, a classic method of nature conservation. It consists of 12 video lecturers, 12 video seminars, and supplementary study materials that use in the seminar classes. The following contents are included in the lecture: the basic concepts of nature conservation, the relationship between humankind and nature, ecological crises and their causes, human needs and their ecological impact, the theoretical and methodological basis of nature conservation, natural resources and their use, Special protected area and its management issues, urbanization and waste management, sustainable development and adaptation to the climate change. During the seminar, students will get to know the concepts learned in the lecture more deeply, while studying the reality of the topic in the Mongolian case, they will conduct practical exercises, evaluate the management effectiveness of special protected areas and develop a management plan using the tools of the European Union (EU).

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Aims and objectives

This course examines traditional and modern methods of environmental protection, human-caused environmental problems, and human actions for conservation/rehabilitation, including science, politics, business, the role of people, and sustainable development. It is important to provide students with a broad understanding of development issues and to study environmental issues facing humanity, such as global climate change, from the perspective of ecological science and nature conservation.

The authentic tasks

- Read the given materials and answer the key questions to reinforce their understanding of the topic covered in the lectures.
- Install MIRADI software and download the management effectiveness tracking tool (METT) for the seminar classes
- Independently complete the tasks of the seminar and learn to use the methods and tools of nature conservation and nature conservation planning.

Prerequisites

- Pre-required courses:
  1. Environmental science ENVI200
  2. Sustainable development and green development policy ENVI312
- Parallel courses (suggestion):
  1. Strategy and policy of green development ENVI618

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General learning outcomes:

By the end of the course, successful students will:

Knowledge	~ basic laws in the "man-nature" system ~ the meaning of modern problems of interaction between society and nature ~ classification of natural resources, features of their use, consequences of overspending, and irrational use of natural resources ~ finding and labeling data ~ selecting appropriate resources
Comprehensive	~ working in team ~ making analysis ~ practical learning ~ self-learning ~ identifying the problems ~ summarizing and stating the main ideas
Application	~ solving the problems ~ developing a management plan for nature conservation ~ evaluating threats to biodiversity ~ practical application ~ interviewing people
Analysis	~ analyzing human, market and scientific positions and rationales in nature conservation practices and environmental management ~ open-source data analysis ~ test for the accuracy of information
Synthesis	~ critically approach the current practice and basic theoretical concepts of nature conservation ~ compiling information together in a different way by proposing alternative solutions

Grading

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

Assessment	Progress assessment (40%): ~ Attendance and academic activity (20%) ~ Progress test (20%) Final assessment (30%): ~ Homework and teamwork report (30%): The students will be divided into groups of 4-5 students and choose 1 topic from the given topics and complete the group project report according to the specific requirements of each topic. Final examination (30%)

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	4.0 3.6 3.1 2.7 2.3 1.9 1.4 1.0 0.0

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Course schedule

Week	In-class hours	Topic	Type
1	2	~ Introduction: Basic concepts and goals of nature conservation	Lecture
	2	~ Nature conservation tradition of Mongolians	Seminar
2	2	~ Mankind and the environment they create. Human-nature relationship. Ecological crises in human history	Lecture
	2	~ Man-made environment. Human needs and their types	Seminar
3	2	~ The biosphere is a human habitat. The theoretical and methodological basis of nature conservation	Lecture
	2	~ Ecosystem services	Seminar
4	2	~ Natural resources are an important objec of natural resources.	Lecture
	2	~ Appropriate use of natural resources	Seminar
5	2	~ Basic tools and incentives for nature con	Lecture
	2		Seminar
6	2	~ Impact of economic activities on the environment. Atmosphere, air quality and its protection	Lecture
	2		Seminar
7	2	~ Use of water and land resources and their protection.	Lecture
	2		Seminar
8	2	~ Use of mineral resources and their protection	Lecture
	2		Seminar
	2		Seminar
9	2	~ Use and protection of forest and biological resources. Special protected areas as an effective way for nature protection	Lecture
	2	~ Network of special protected areas of Mongolia	Seminar
10	2	~ Special protected area management	Lecture
	2		Seminar
11	2	~ Urbanization and infrastructure. Waste management	Lecture
	2		Seminar
12	2	~ Summary: Sustainable development and nature conservation. Adaptation to climate change	Lecture
	2		Seminar

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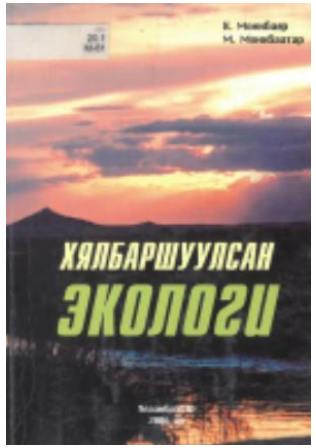
Literature

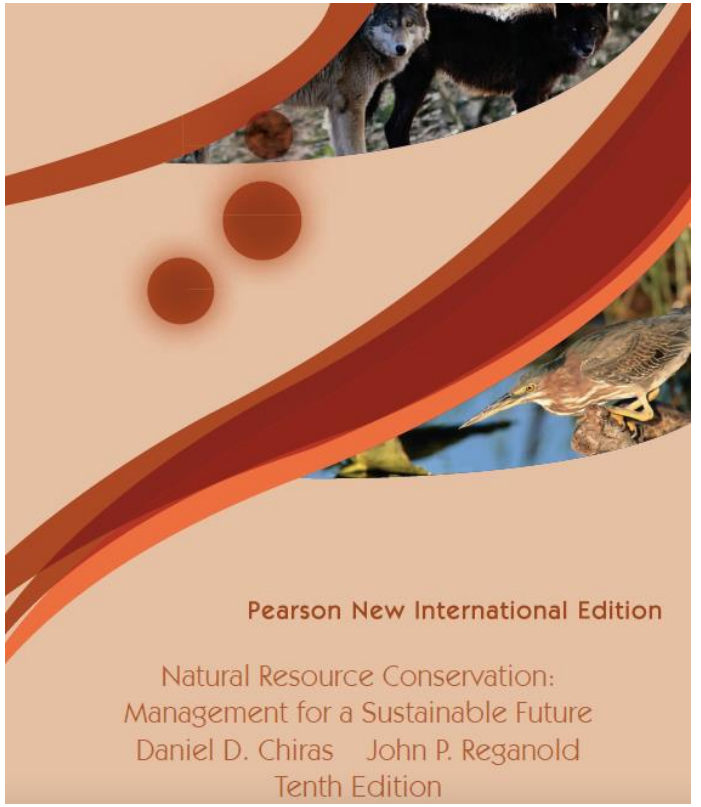
Compulsory:

1. Daniel. D and et al, (2014) "Natural Resource Conservation: Management for a Sustainable Future", 10th edition, Pearson New International, USA, pages 663, ISBN 13: 978-1-292-04098-1, in Mongolian
2. Titova V. I and Dabakhova E. V, (2003) ""Environmental conservation", Textbook, Publishing House of the Volga-Vyatka Academy of Civil Service, Nijny Novgorod," ISBN: 5-85152-344-1, pages 213, ISBN 5-85152-344-1, in Russian.

Recommended:

1. H. Monkhbayar and M. Monkhbaatar, (2006) "Simplified Ecology", Admon Press, pages 154, ISBN:9789992907657 0.00, in Mongolian
2. Ministry of Environment and Tourism of Mongolia, (2019) "Report on the state of the environment in Mongolia", editors Enkhbat. A, Tsogtsaikhan. P and Nyamdavaa. G, Ulaanbaatar, pages 186, in Mongolian





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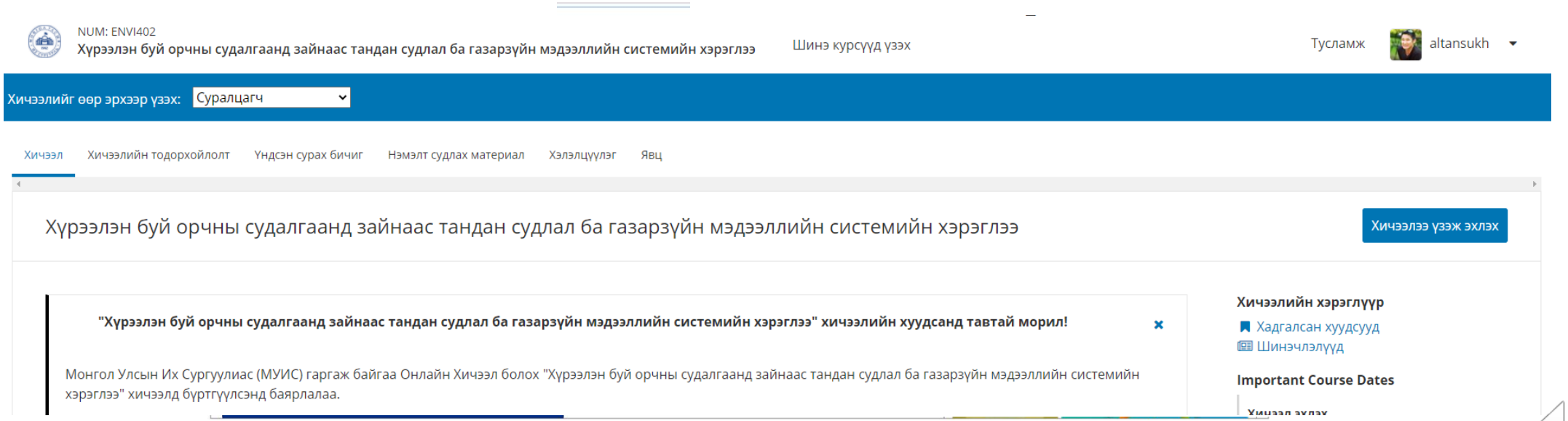
As the course will be conducted online, students are not required to come to the university for both lectures and seminars. Most of the interactive and self-reflective methods of teaching-learning will be applied to the course, where possible, avoid standing lectures and presentations. All video lectures, and seminar 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. ENVI802
- Register the course. Enroll in ENVI802
- The follow the steps to Register the OpenEDX system.
- After changing the password, enter the e-learning system.
- Enter the course



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E-course component:

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

As it is an online course, students can attend the class anytime and anywhere during the semester.

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Online course

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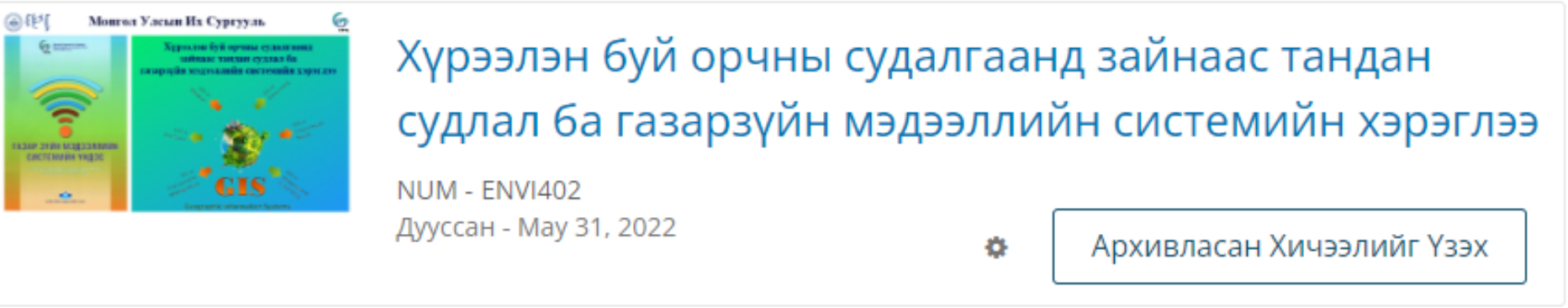
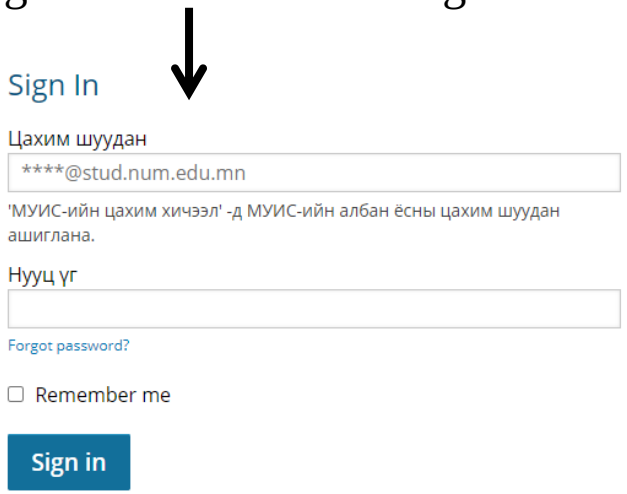
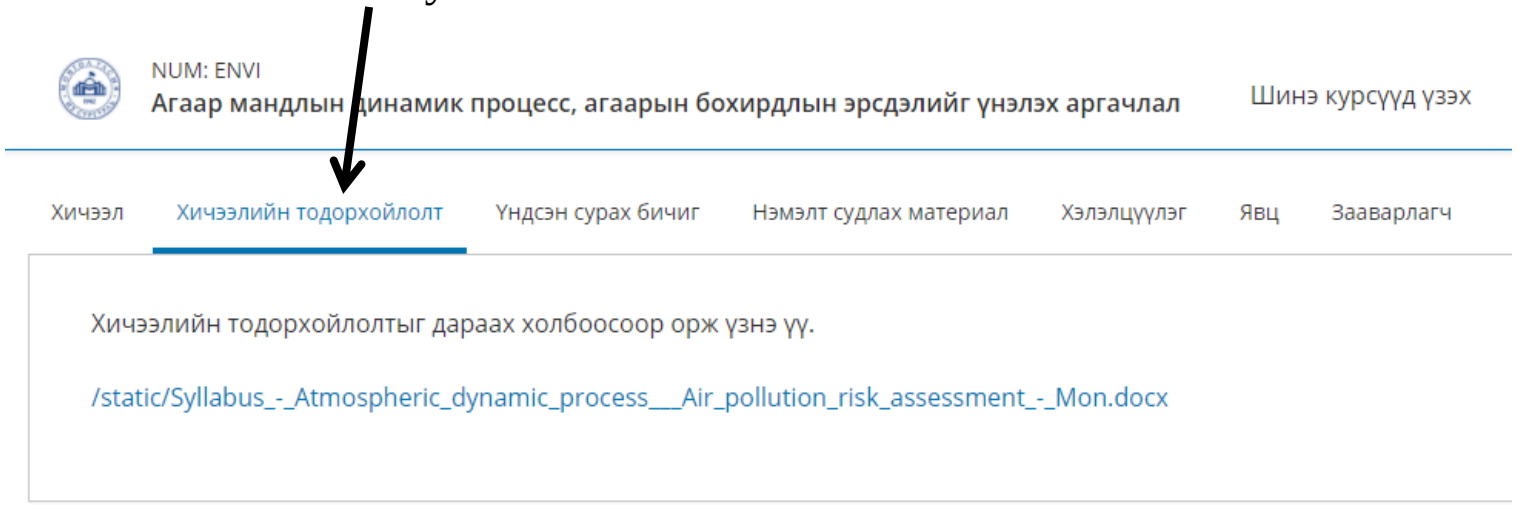


Sign-in the e-course using e-mail.



See and download syllabus



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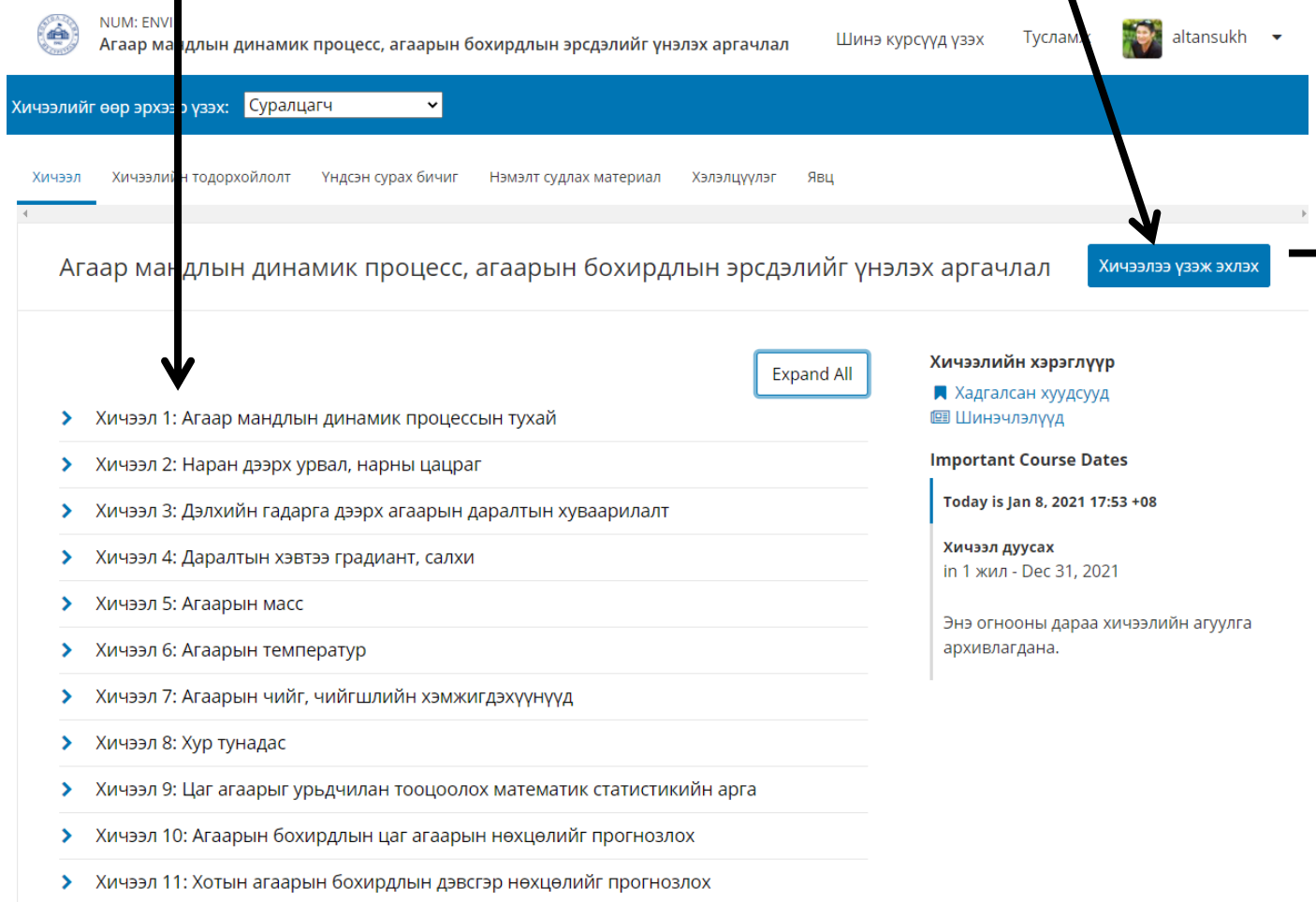
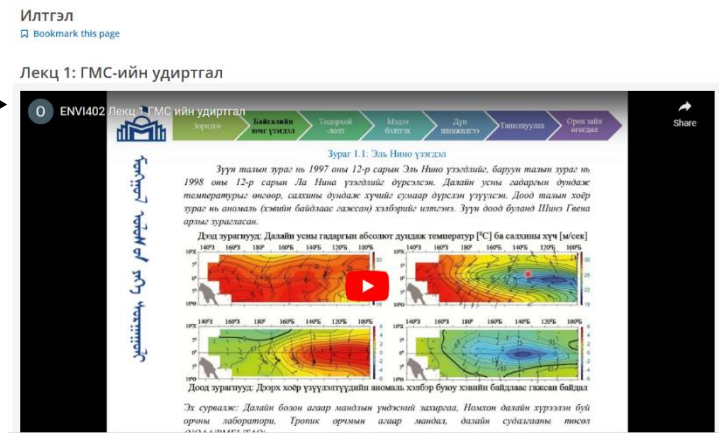
List of all lectures look like this.

To start to see lecture, press here





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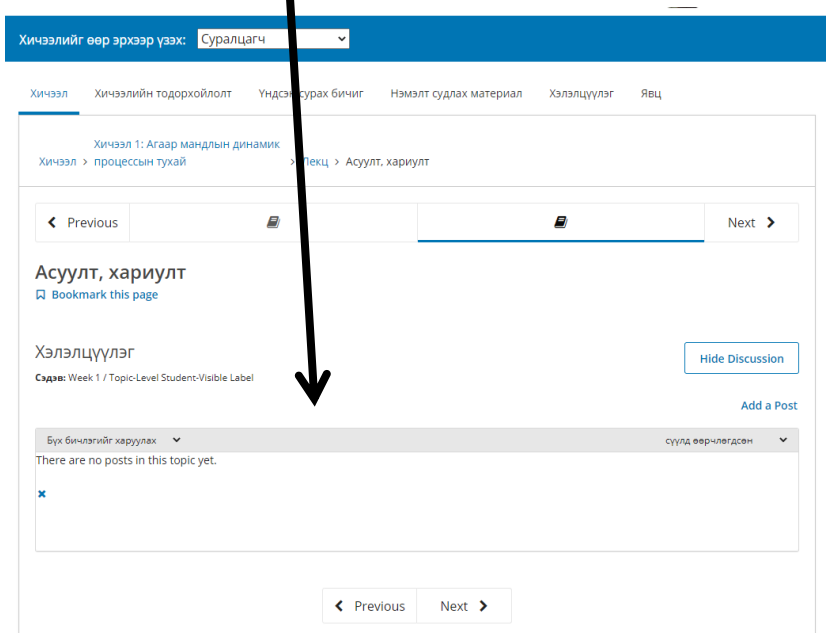
All lecture and laboratory videos look like this.

Students post question, if they have



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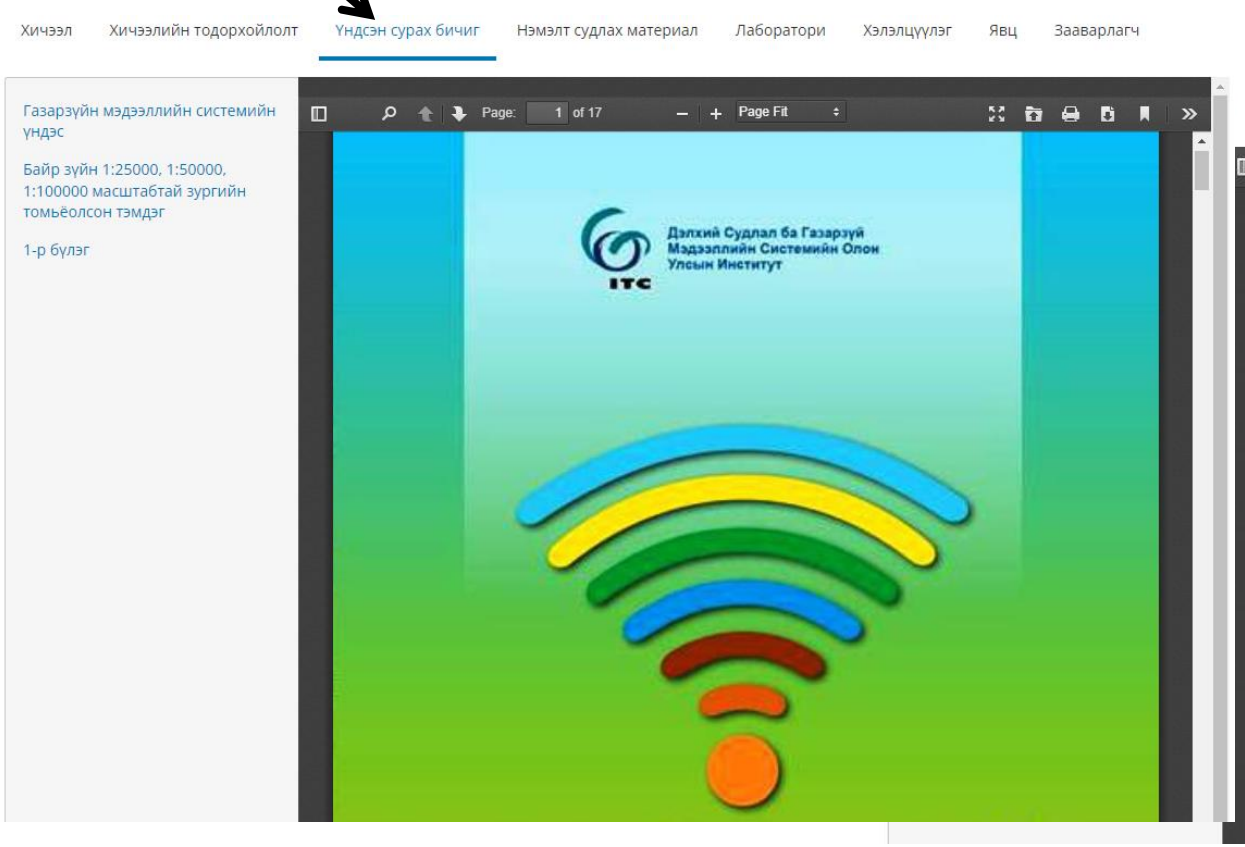
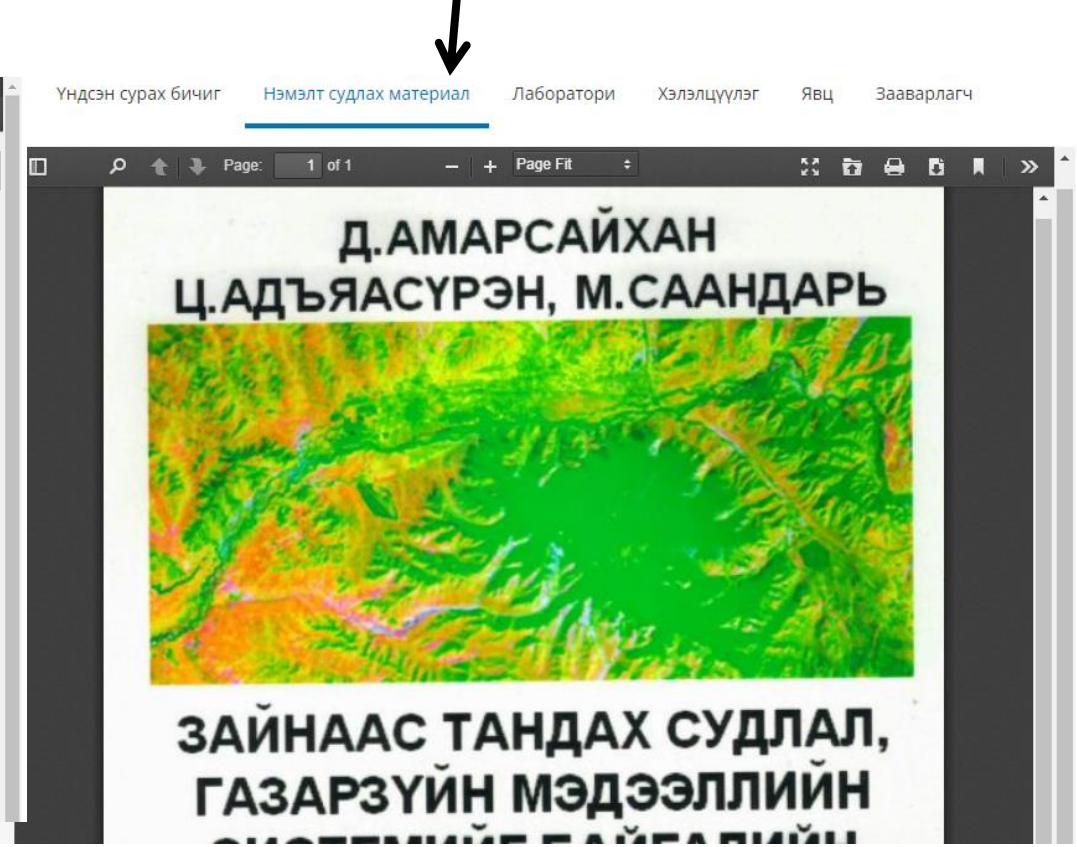
Core study book

Additional study materials





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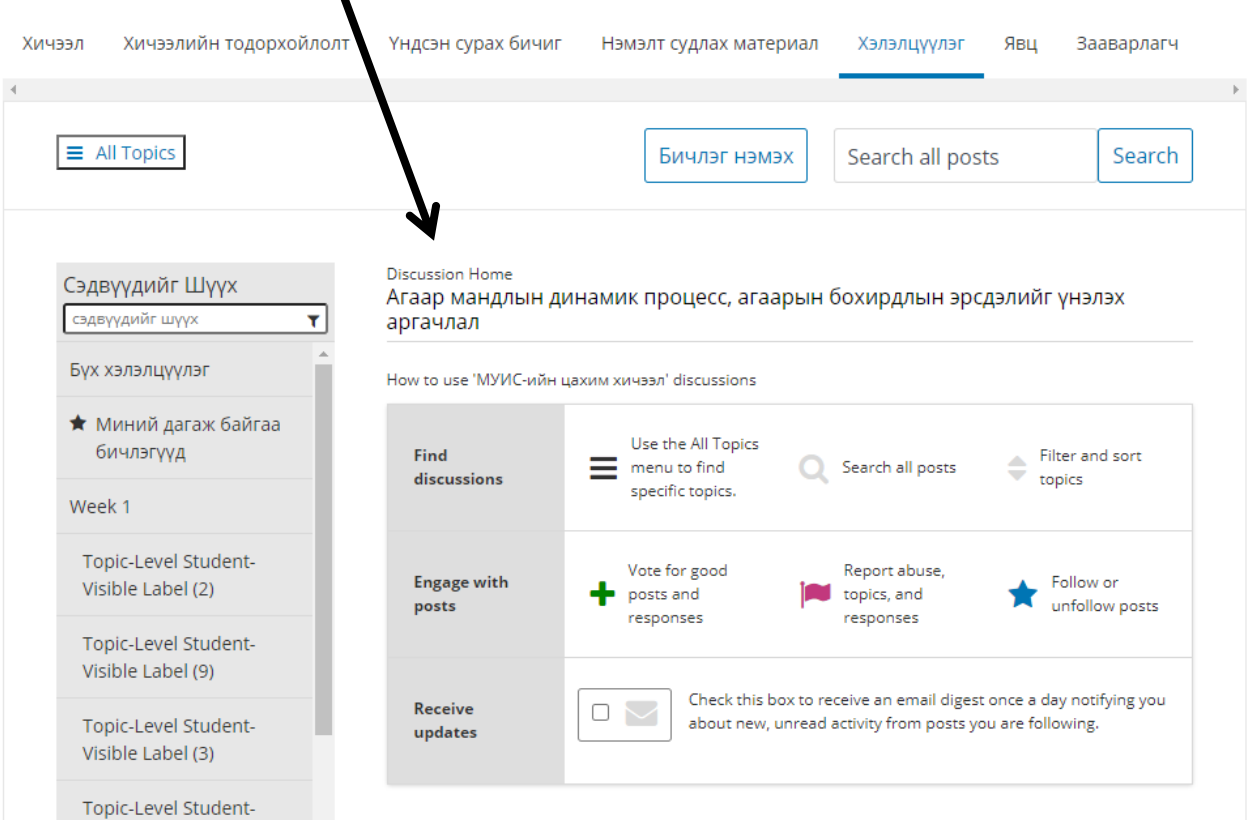
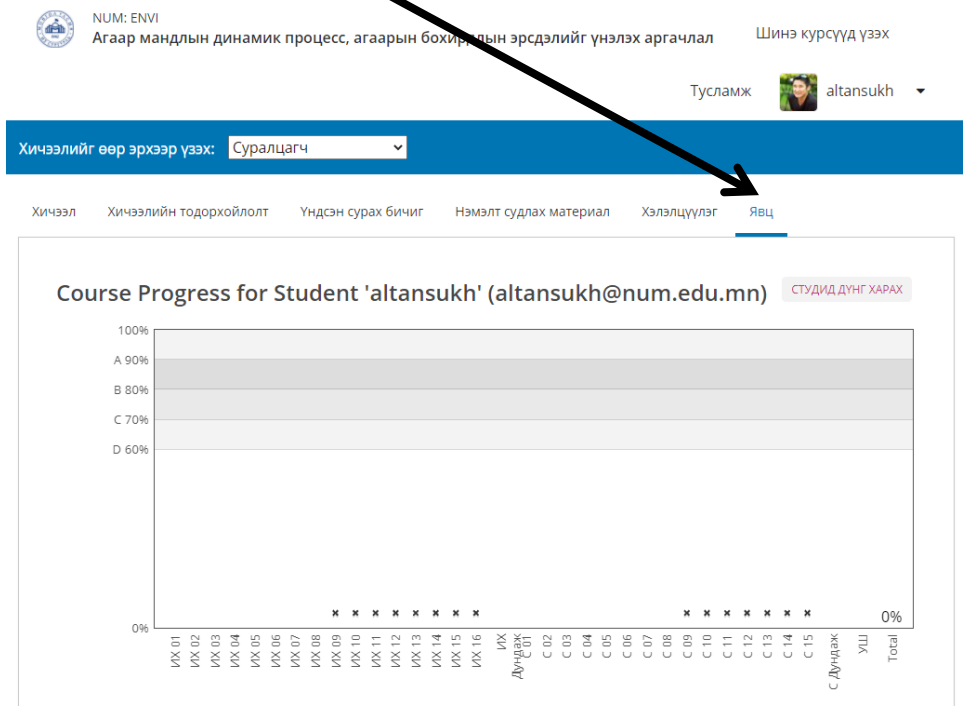
Discussion section



Assignment and result



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