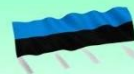




Co-funded by the Erasmus+ Programme of the European Union



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

FUNDAMENTALS OF LANDSCAPE ARCHITECTURE



Introduction to the course
LMD 253

MSc **Khishigzundui MUNKHTUVSHIN**
School of Agroecology, Mongolian University of Life Sciences
<https://online.num.edu.mn/courses>

CONTENT

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- Summary and target audiences

2

- Objective and tasks

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- General learning outcomes

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- Grading and assessment

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- Course schedule - Lecture

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- Course schedule - Laboratory

7

- Literature

8

- Teaching and learning method - How to attend an E-course?



SYLLABUS: [↕] FUNDAMENTALS OF LANDSCAPE ARCHITECTURE [↕]

[↕]
Course name: Fundamentals of landscape architecture[↕]
Number of credits: 4.8ECTS/3MCTS[↕]
Period: Fall semester[↕]

⁺ [↕] Host institution [↕]	Mongolian University of Life Sciences [↕]	[↕]
Lecturer [↕]	<u>Munkhtuvshin Khishigzundui</u> [↕]	[↕]
Level [↕]	<u>B.Sc course</u> [↕]	[↕]
Course type [↕]	Major course [↕]	[↕]
Course duration [↕]	16 weeks [↕]	[↕]
New/Revised [↕]	Revised [↕]	[↕]
E-course link [↕]	https://online.num.edu.mn/dashboard [↕]	[↕]



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

The course introduces the basic concept and style of landscape architecture and consists of two main parts: the concept of landscape - style, and the beauty of the landscape. The first part includes the concept of landscaping - development, concept of landscaping - importance, skills of landscape architect, research of landscape architect, goals - needs of landscaping, landscape development, and classification of landscape styles. The next part is elements of natural beauty, aesthetic elements and principles of landscape design, points, lines, planes and surfaces, shapes, directions, light and shadows, texture, size, color, axis, principles and theories of landscape beauty.

Aims and objectives

The course aims to get familiar with the basic principles of landscape architectural planning and to provide knowledge about the theory of harmony between spatial elements and form of design planning through lectures. The aim is to teach the use of environmental research through practical lessons and to specialize in the planning skills of trees, shrubs, and roads. Studying this lesson will help the student to master the ability to develop images using the results of design composition.

Prerequisites

Required courses (or equivalents):
Black nature morte LMD 252

The authentic tasks

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

General learning outcomes:

By the end of the course, successful students will:

Knowledge	By studying the course, while mastering the basic knowledge of landscape architecture, students will acquire the ability and practice of correct use of images at the initial level by applying the principles and theories to research. In terms of theoretical knowledge, the knowledge written in the content section of the course will be acquired based on the basic textbook.
Application	~ To apply the fundamental knowledge for other professional courses in Landscape Architecture, and to plan and draw sketches and plan drawings through the graphic manually.
Analysis	~ To prepare several models of landscape architecture sketch plan and analyze them to select the appropriate model.
Synthesis	~ To use a variety of drawing tools and materials in combination to create a comprehensive plan and perspective drawing.
Competences	<p>The following practical skills will be acquired based on the theory of form composition widely used in landscape architecture, and they will learn to use it in landscape architecture planning. It includes:</p> <ul style="list-style-type: none"> ~ Learn basic dot and dash operations ~ To map objects and scenes with a perspective structure using shapes, light and shadows, and color charts ~ Draw graphic scenes of trees and shrubs with dots and lines



Grading

The students' performance will be based on the following:

- Assessment
1. Attendance – 20% Assessed by access to e-courses
 2. Progress examination – 20%
 3. Skill examination – 30%
 4. Final examination – 30%

Evaluation EU system	A (8,5 – 10)	Evaluation MN system	95-100	A	4.0
	B (7,0 – 8,4)		90-94	A-	3.6
Evaluation EU system	C (5,5 - 6,9)	Evaluation MN system	85-89	B	3.1
			80-84	B-	2.7
			75-79	C	2.3
			70-74	C-	1.9
Evaluation EU system	D (4,0 – 5,4)	Evaluation MN system	65-69	D	1.4
			60-64	D-	1.0
			0-59	F	0.0



Week In-class

Topic

1	2	The concept and development of landscaping:
2	2	Landscape architect skills. Landscape architectural research
3	2	The purpose and need for decoration. Landscape development
4	2	Landscape style classification
5	2	The beauty of the landscape: Elements of natural beauty
6	2	Aesthetic elements and principles of landscape design. Point. Line.
7	2	Flat or surface. Shape. Direction
8	2	Light and shadow.(contrast) Texture. Size.
9	2	Color. Axis.
10	2	Principles and theory of landscape beauty: Symmetry. Contrast. Uniformity
11	2	Radiation. Repetition. Gradation
12	2	Rhythm. far near
13	2	Shelter exposure. Illusion
14	2	Borrow vied. Angle of the eye view
15	2	Proportion
16	2	Composition of elements

Total 32 working hours





Week	In-class	Topic
1	2	Coniferous tree depiction (black and white)
2	2	Image of a deciduous tree (black and white)
3	2	Illustration of a bush (black and white)
4	2	Stone image (black and white)
5	2	Chair area plan planning
6	2	Shaded area plan planning
7	2	Planning of trees and shrubs
8	2	Plan planning with trees, shrubs, shades and chairs
9	2	Plan the area with chairs and paint them in color
10	2	Shaded area plan planning coloring
11	2	Planning of trees and shrubs
12	2	Plan, color, plan trees, shrubs, shades and chairs
13	2	Perspective construction of chairs construction
14	2	Perspective construction of shadows
15	2	Perspective construction of trees and shrubs
16	2	Perspective structure with trees, shrubs, shades and chairs

Total 32 working hours

Compulsory:

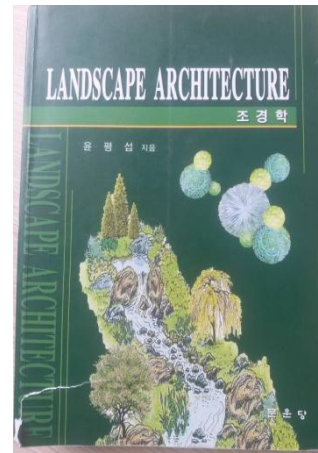
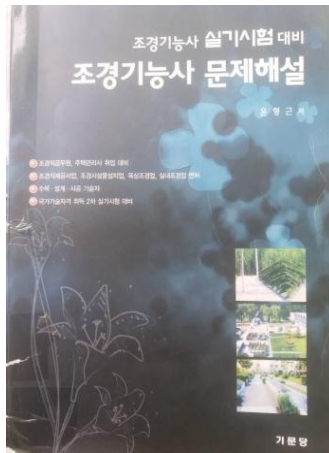
- Yoon Pyung-seop Landscape architecture (2011)
- Yoon Pyung-seop Landscape architecture (2007)

Recommended:

1. Kh.Munkhtuvshin Graphic handbook of trees, shrubs and bushes (2022)

TRAINING MATERIALS:

1. A guide to landscape trees, shrubs, and shrubs
2. Perspective construction
3. Watum paper
4. Color paints (pencils, watercolors, etc.)

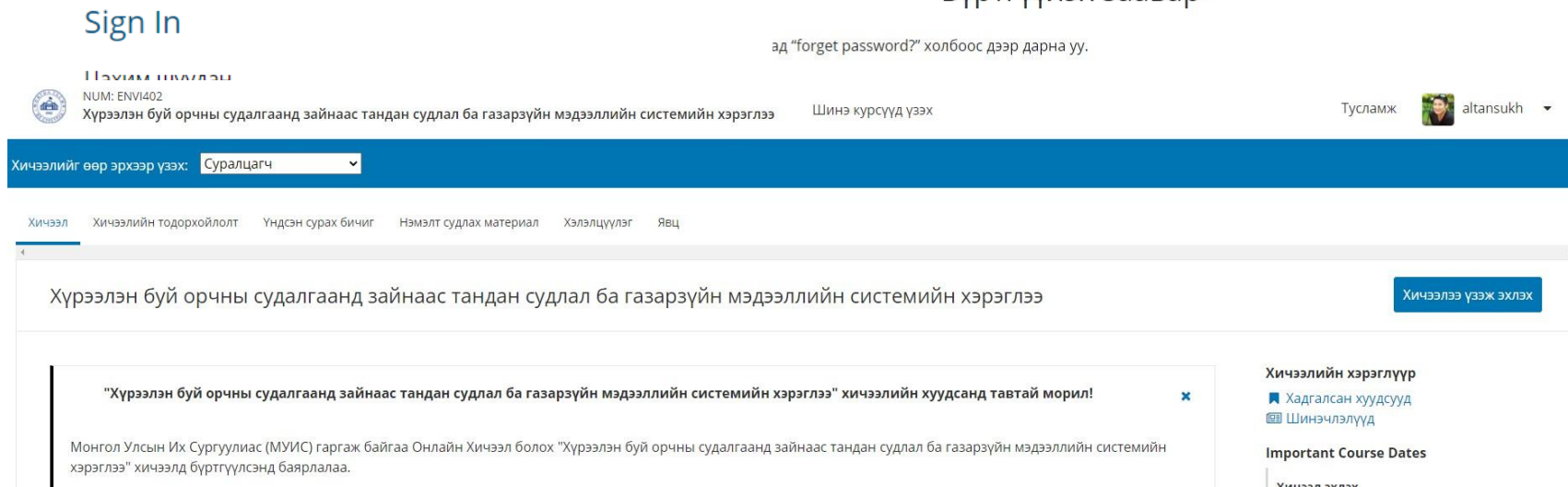


The course will conduct online form that means students no longer needed to come to the university for the lecture class. For the laboratory work, students can come to the class, if they need. Landscape architecture computer laboratory will be available during the course. Most of the interactive and 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 /NUM/.

How to attend an E-course:

- <https://online.num.edu.mn/>
- Select a course. LMD 253
- Register the course. Enroll in LMD 253
- The follow the steps to Register the OpenEDX system.
- After changing the password, enter the e-learning system.
- Enter the course

Бүртгүүлэх заавар



E-course component:

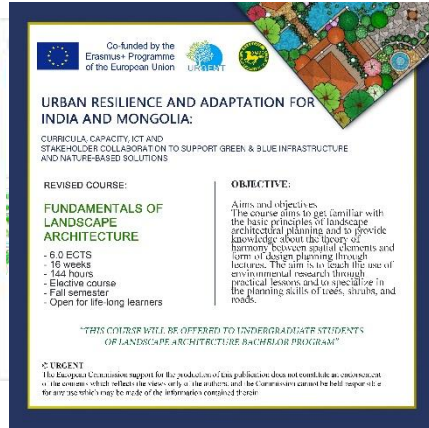
1. About course
2. Lecture and laboratory video – key questions
3. Syllabus
4. Core study book
5. Additional study materials
6. Discussion
7. Assignment and result

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



Online course

<https://online.num.edu.mn/courses/>



URBAN RESILIENCE AND ADAPTATION FOR INDIA AND MONGOLIA:
CURRICULA, CAPACITY, ICT AND STAKEHOLDER COLLABORATION TO SUPPORT GREEN & BLUE INFRASTRUCTURE AND NATURE-BASED SOLUTIONS

REVISED COURSE:
FUNDAMENTALS OF LANDSCAPE ARCHITECTURE
- 6.0 ECTS
- 18 weeks
- 144 hours
- Elective course
- Fall semester
- Open for life-long learners

OBJECTIVE:
Aims and objectives:
The course aims to get familiar with the basic principles of landscape architectural planning and to provide knowledge about the theory of harmony between social elements and form of design planning through lectures. The aim is to teach the use of environmental research through practical lessons and to specialize in the planning skills of trees, shrubs, and roads.

THIS COURSE WILL BE OFFERED TO UNDERGRADUATE STUDENTS OF LANDSCAPE ARCHITECTURE BACHELOR PROGRAM

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FUNDAMENTALS OF LANDSCAPE ARCHITECTURE

NUM - ENVI402
Дууссан - May 31, 2022

Архивласан Хичээлийг Үзэх

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



NUM: ENVI

Агаар мандлын динамик процесс, агаарын бохирдлын эрсдэлийг үнэлэх аргачлал

Шинэ курсүүд үзэх

[Хичээл](#)

[Хичээлийн тодорхойлолт](#)

[Үндсэн сурах бичиг](#)

[Нэмэлт судлах материал](#)

[Хэлэлцүүлэг](#)

[Явц](#)

[Зааварлагч](#)

Хичээлийн тодорхойлолтыг дараах холбоосоор орж үзнэ үү.

/static/Syllabus_-_Atmospheric_dynamic_process__Air_pollution_risk_assessment_-_Mon.docx

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

- 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

Хичээлээ үзэж эхлэх

Илтгэл
Bookmark this page

Лекц 1: ГМС-ийн удиртгал

ENVI402 Лекц 1: ГМС-ийн удиртгал

Зургийн үзэгдэл

Энэ 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. Доо талын хоёр зураг нь аномаль гэж нэрлэгддэг хэсгүүдийг харуулж байна. Эхний зураг нь Шинэ Гвинея орныг харуулж байна.

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

Доо талын зурагт: Дээрх хоёр үзүүлэлтүүдийн аномаль хэсгүүр буюу хэсгийн байршил харуулж байна.

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

All lecture and laboratory videos look like this.

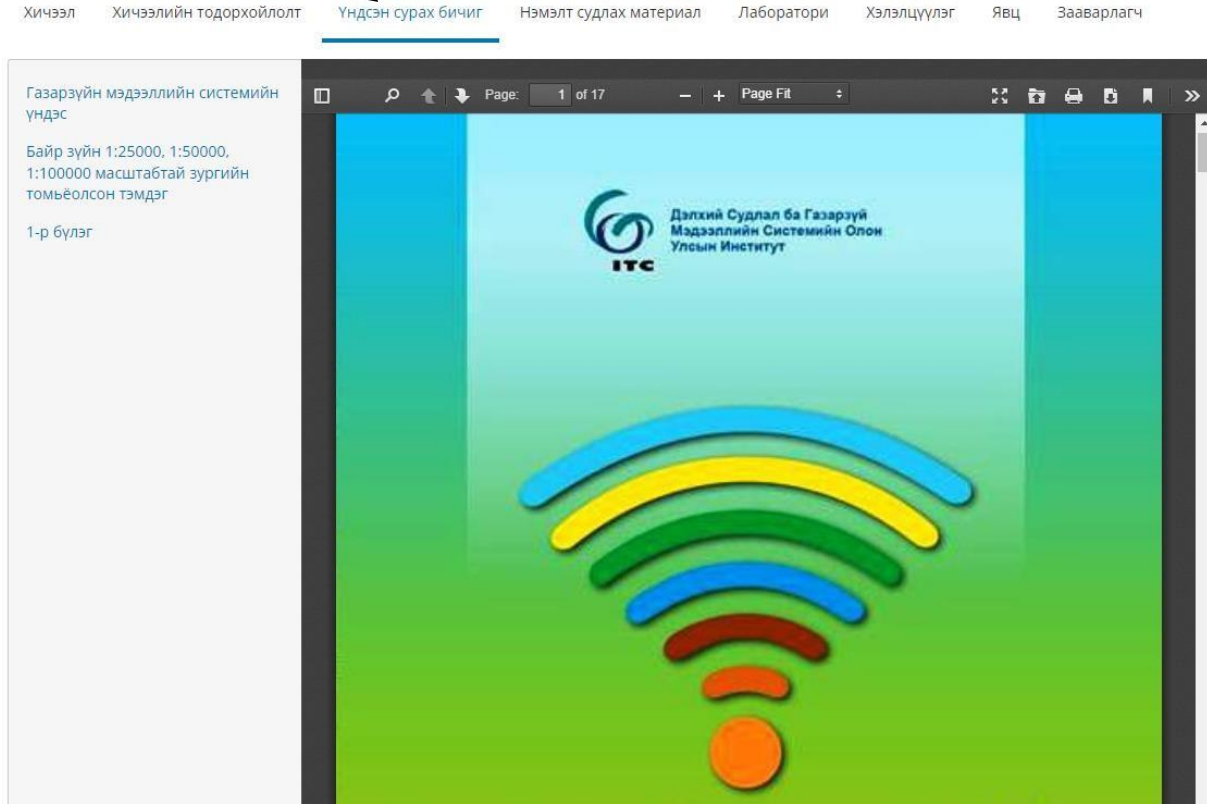
Илтгэл

Bookmark this page

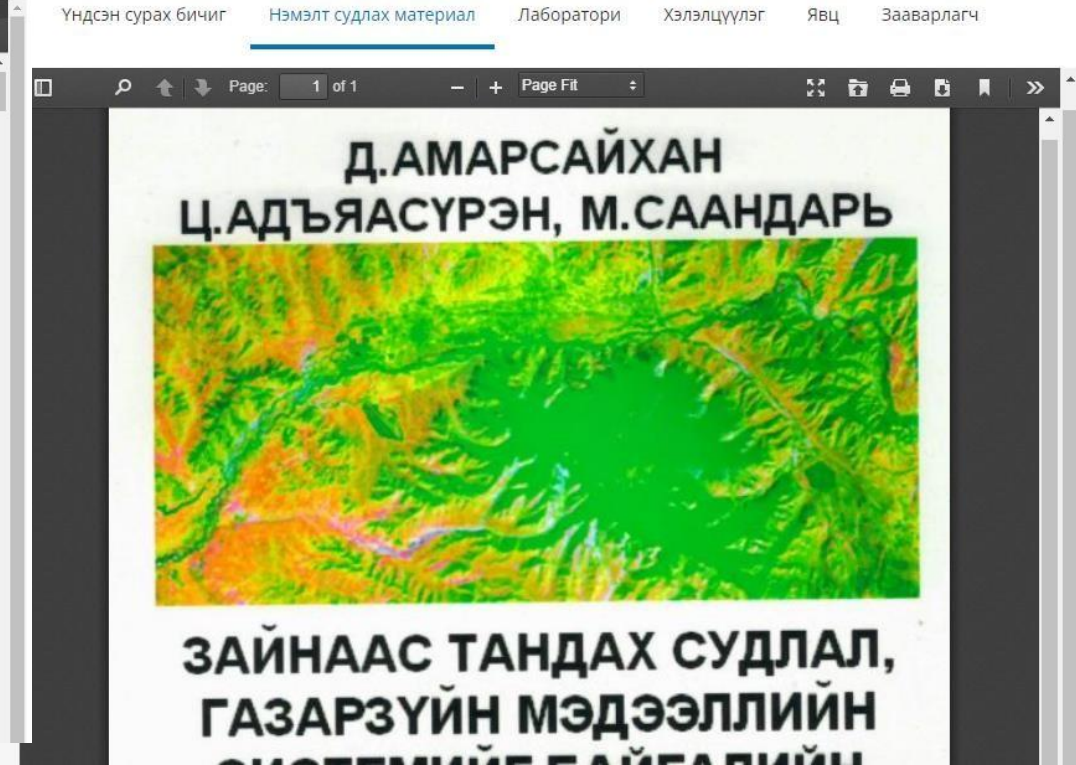
Лаборатори 1: Газарзүйн солбицол, байр зүйн зураг

Students post question, if they have

Core study book



Additional study materials



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
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**

Unit	Progress
ИХ 01	0%
ИХ 02	0%
ИХ 03	0%
ИХ 04	0%
ИХ 05	0%
ИХ 06	0%
ИХ 07	0%
ИХ 08	0%
ИХ 09	0%
ИХ 10	0%
ИХ 11	0%
ИХ 12	0%
ИХ 13	0%
ИХ 14	0%
ИХ 15	0%
ИХ 16	0%
ИХ 001	0%
Аргачлал	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.Дүнлэл	0%
УШ	0%
Total	0%



THANKS FOR YOU ATTENTION