



# Course presentation A Special Course in a Foreign Language\* (new, optional)

\* based on the MOOC "Sustainable Development of Mountain Territories in the Context of the Concept of Ecosystem Services"







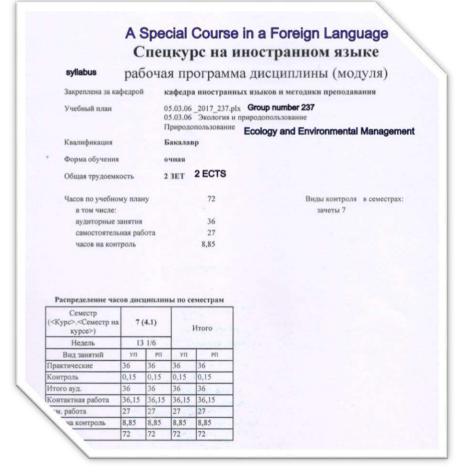
The electronic resource is designed to support the training course "A Special Course in a Foreign Language" (2 ECTS).

The resource is intended for BSc in the field of training 05.03.06 Ecology and Environmental Management and 05.04.02 Geography.

It is designed to support a blended learning model using the GASU EEE (based on Moodle platform moodle.gasu.ru) and is based on the MOOC "Sustainable Development of Mountain Territories in the Context of the Concept of Ecosystem Services" launched under the SUNRAISE project in 2020.

This optional course is aimed at developing students' competence for professional communication in English on the issues of sustainable development and ecosystem services.

Total number of students taught in 2020 /2021 academic year - 8







### Aims and objectives

The aims of the course are to develop students' competence for professional communication in English language and provide them with basic knowledge about the ecosystem services and the role they play in the sustainable development of mountain territories.

## The key course objectives are:

- students will study new professional terms in English and their Russian equivalents;
- students will develop their skills to participate in professional discussions in English;
- students will be introduced to general characteristics of mountain territories;
- students will study the specific features of mountain biodiversity and the factors it is caused by;
- students will gain an understanding of global significance of mountain territories;
- students will be introduced to the concept of ecosystem services and history of its development;
- students will study the types of ecosystem services;
- students will study the types and methods of valuation of ecosystem services;
- students will gain an understanding of key threats to mountain ecosystem services and the way they can be restored.





#### General learning outcomes

By the end of the course, successful students will:

- > be able to communicate on professional topics covered in this course in English, in particular:
- be aware of SDGs, their targets and indicators;
- be able to describe the general characteristics of mountain landscapes and climate and the way they are formed;
- be aware of natural and man-caused disasters that occur in the mountains;
- understand the reasons for high biodiversity in mountain areas;
- understand the concept of the "biodiversity hotspots";
- recognize the global significance of mountain natural and cultural resources;
- understand the advantages of alternative energy development in mountain areas;
- be aware of the concept of ecosystem services and history of its development;
- be able to list the types (categories) of ecosystem services and define their "components";
- be able to describe the role of mountain territories in the provision of ecosystem services;
- be able to define the value of ecosystem services;
- be able to choose the methods for valuation of a particular ecosystem service;
- identify threats to mountain ecosystem services; and
- be aware of possible methods for restoration of ecosystem services.





The course is available on the GASU Moodle http://moodle.gasu.ru/course/view.php?id=6608#section-8

As the course is based on the MOOC "Sustainable Development of Mountain Territories in the Context of the Concept of Ecosystem Services" some educational materials and tasks are located at http://sunraise.gasu.ru/?lang=en

### Course contents

- Introduction;
- Theme 1. General Characteristics of Mountain Territories;
- Theme 2. Biological Diversity of Mountain Territories;
- Theme 3. Global Significance of Mountain Territories.;
- Theme 4. Ecosystem Services: Essence and History of Development.;
- Theme 5. Economic Valuation of Ecosystem Services;
- Theme 6. Threats to Mountain Ecosystem Services and Their Restoration.

There has been developed a special textbook for this course that includes texts for reading from the MOOC "Sustainable Development of Mountain Territories in the Context of the Concept of Ecosystem Services," additional questions for self-control, and various communicative exercises and tasks.

http://elib.gasu.ru/index.php?option=com\_abook&view=book&id=3539:975&catid= 35:inostrannve-vazvki&Itemid=180

> Учебное пособие разработано для дисциплины «Спецкурс на иностранно языке» и предназначено для студентов естественнонаучных специальносте обучающихся по направлениям подготовки 05.03.06 «Экология природопользование» и 05.03.02 «География».

Пособие разработано на основе массового открытого онлайн курса "Sustainable Development of Mountain Territories in the Context of the Concept of Ecosystem Services"(http://sunraise.gasu.ru/), который является его неотъемлемой частью, и подготовлено в рамках проекта ЕС 586335-ЕРР-1-2017-1DE-ЕРРКА2-CBHE-JP «SUNRAISE: Sustainable Natural Resource Use in Arctic and High Mountainous Areas» Программы Erasmus +.

Проект реализовывался при финансовой поддержке Европейской Комиссии. Публикация отражает только взгляды авторов, и Комиссия не несёт ответственности за использование содержащейся в ней информации.

#### INTRODUCTION

- 1. Answer the following questions. Then, watch the Video and check if your
- 1. What is Sustainable Development?
- When did the concept of sustainable development
- 3. What is the aim of the Brundtland Report? Undo
- 4. What are the three essential pillars of sustainable development?

#### 2 Read the text and answer the questions:

The Sustainable Development Goals (SDGs), also known as the Global Goals were adopted by all United Nations Member States in 2015 as a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity by 2030. They were born at the United Nations Conference on Sustainable Development in Rio de Janeiro in 2012. The objective was to produce a set of universal goals that meet the urgent environmental, political and economic challenges















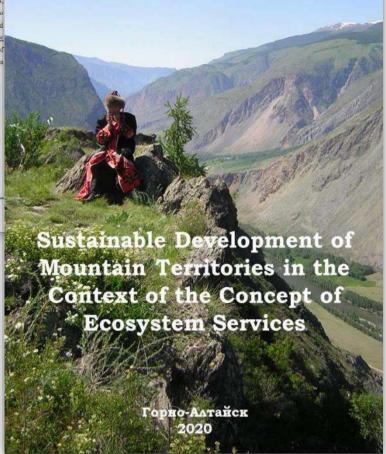
















## The course includes

- **Entrance test**;
- Video lectures
- Texts for reading and discussion;
- Presentations;
- Practical assignments;
- Additional vocabulary and communicative exercises;
- Tasks in the format "Check yourself";

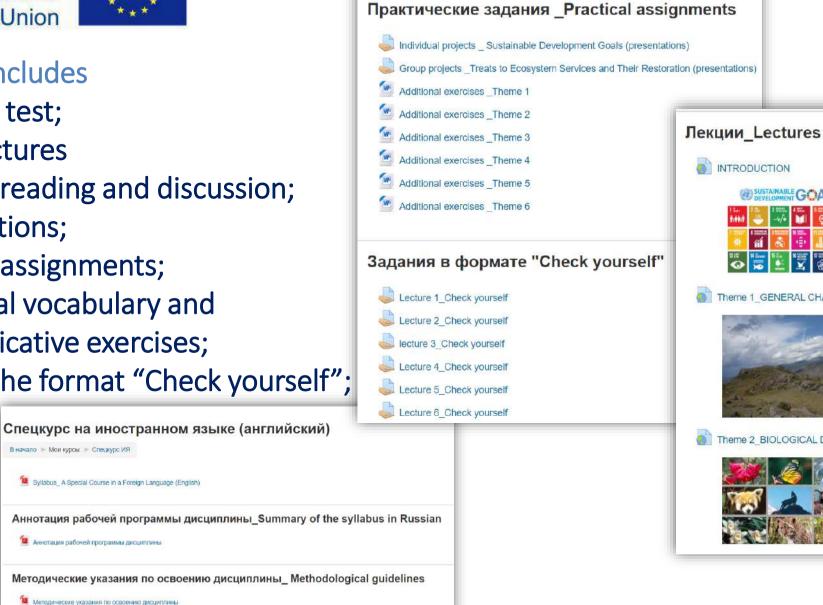
Аннотация рабочей программы дисциплины

Методические указания по освоению дисциплины

Syllabus A Special Course in a Foreign Language (English)

В начало - Мои курсы - Спецкурс ИЯ

Tests.





GENERAL CHARACTERISTICS OF MOUNTAIN TERRITORIES

LOGICAL DIVERSITY OF MOUNTAIN TERRITORIES

INTRODUCTION





Each topic of this course starts with a short introductory video or a video lecture from the MOOC followed by communicative exercises

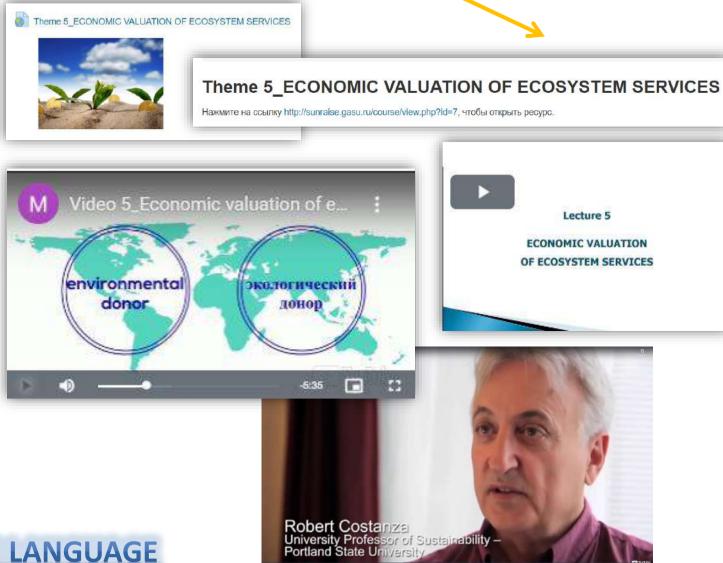












COURSE IN A FOREIGN LANGUAGE

5 плотность атмосферь б концентрация воляного пас

3. Match the given words and word combinations with their definitions:



Then, students work independently with the texts



of lectures and perform tasks "Check yourself" and SUNRAISE additional vocabulary exercises:

Практические задания Practical assignments Individual projects Sustainable Development Goals (presentations) Group projects Treats to Ecosystem Services and Their Restoration (presentations) Additional exercises Theme 1 Additional exercises Theme 2 B - is the shaking of the surface of the Earth C - a mass of snow that elides repidly down an inclined slope

D - an extended mass of ree firmed from snow falling and accumi Additional exercises \_Theme 3 Additional exercises \_Theme 4 F - the ridge or crest line that separates waters flowing to different of - floor of water that contains large amounts of numerical particles and silt Additional exercises \_Theme 5 Additional exercises \_Theme 6 4. Divide the given words into groups of antonyms direct, reflection, destruction, low, internal, foot, to increase, indirect, downwind, top, extra decrease, absorption, upwind, high, formation steep slope 10 precinitation Vocabulary systems Theme 1 is an area of high ground which divides two or more river systems. GENERAL CHARACTERISTICS OF MOUNT streams on one side flow into one close and those on the other side flow into a different of is spontaneous a \_\_\_\_\_\_ is spontaneous.

levels in the desert are very low since it doesn't rain much there. 1 foothill There were at least six cold periods with somewhere on the earth slope 6. Two skiers were killed in the glacier 7. There is a called the Alps. shield volcano 8. With increase in temperature drops. Earth 's crust 9 The system is a complicated system which includes geosphere, atmolithospheric plates hydrosphere and biosphere. volcanie ash here has risen 150 meters, and glaciers have retreated by 10 kilom are globally distributed landforms, which localize along river valle intermountain depression 9 rock debris form in a variety of climatic and tectonic settings. 0 surface 1 steep slope destruction of mountains 3 strenothenino 14 to accelerate 5 limestone 16 to be exposed to 2. Find in the text the English equivalents of the following words and word combinations: глыбовые и складчато-глыбовые горы 3 вулканические горы 4 гребень хребта сжатие земной корь извержение вулкана сисговая линия количество осадко 0 растительності 1 долина громоина! 3 разрушать 4 пещера

increase in their diversity over time. Evolutionary changes affect all aspects of the existence of living organisms: their morphology, physiology, behavior, and ecology. All these changes are based on genetic changes, i.e. changes in the hereditary substance, which interacting with the environment determines all the characteristics of living organisms (structure, growth, development, and reproduction). At the genetic level, evolution is the accumulation of changes in the genes of populations.

Evolution at the genetic level can be seen as a two-step process. On the one hand, mutations, i.e. the processes leading to the variability of organisms, arise; on the other hand, there is a change in genes and natural selection - processes through which genetic variation is passed down from generation to generation.

The term "biodiversity" is often regarded as a synonym for "species diversity" or "species richness," which is the number of species in a particular place or biotope. Total biodiversity is usually estimated as the total number of species in different

The species level of diversity is usually considered as the basic or central, and the species is the basic unit of biodiversity account. Species are usually the main objects of protection.

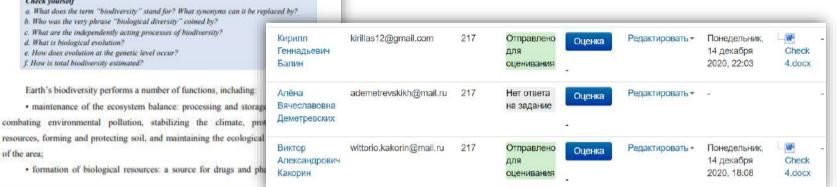
d. What is biological evolution?

f. How is total biodiversity estimated?

e. How does evolution at the genetic level occur?



The performed tasks are additionally checked and discussed at the lesson or uploaded on the Moodle for the teacher to check.

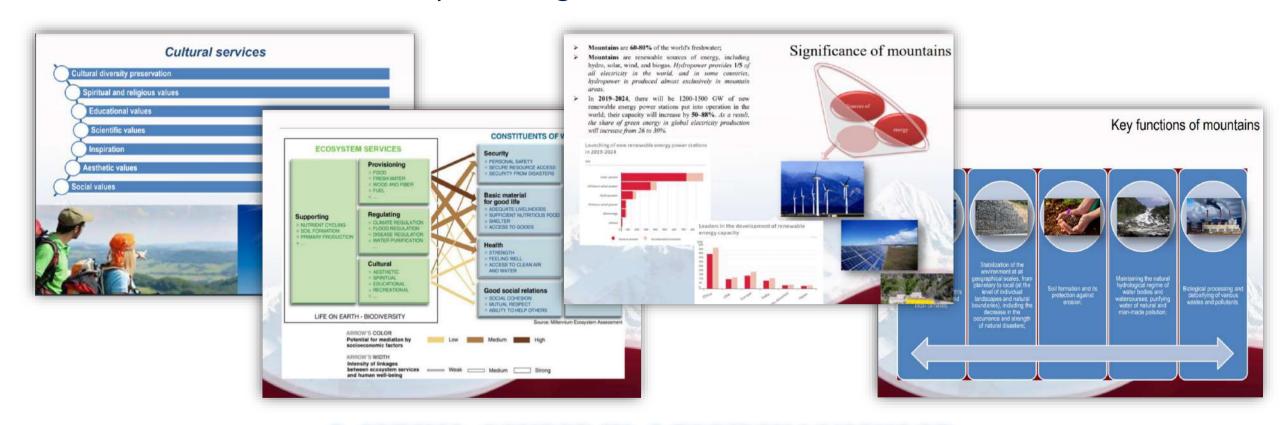






The next step is the work with revision presentations summarizing the information the students have seen and read:

- students watch them independently (in case of distance learning);
- students listen to the teacher presenting them at the lesson.





The e-learning part also includes an obligatory performance of thematic training tests, which can be performed an unlimited number of times, but the teacher can see the results and follow the student's progress:







The students' performance is based on the following:

- Thematic tests (18%);
- Level of preparedness for and participation in class discussions (20%)\*;
- Individual assignment (10%);
- Contribution to preparation and presentation of the group assignment (10%);
- Results of the intermediate test (12%);
- Results of the final test (30%).

\* The students who for some reasons cannot participate in class activities face-to-face can join group discussions online via BigBlueButton (the Moodle tool).

# Групповые дискуссии онлайн\_Online group discussions

**Б** Групповые дискуссии\_Group discussions

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ademetrevskikh@mail.ru 217

Отдел Состояние

Фамилия / Имя почты

Просмотр попытки Подколзина Валентина Васильевна

Просмото попытки

Просмотр

Деметревских Алена Вячеславовна



Задания для входного и промежуточного контроля Tasks for entrance and intermediate control

1.72 4 1.72 4 1.72 4 1.72 4 1.72

▼ Тест входного контроля знаний Entrance test

Tест промежуточного контроля знаний Intermediate test





#### Задания для итогового контроля Tasks for final control

Оценка/100.00 /17.3 Итоговый тест по курсу Final Test

| Буравцов  |                          |     |             | 23                             |                                  |                    |       |   |       |                |               |     |      | er e |             |     |               |     |      |             |     |               |   |
|---|--------------------------|-----|-------------|--------------------------------|----------------------------------|--------------------|-------|---|-------|----------------|---------------|-----|------|--|-------------|-----|---------------|-----|------|-------------|-----|---------------|---|
| Антон<br>Анатольевич<br>Просмотр<br>попытки               | anton_buravtsov@mail.ru  | 237 | Завершенные | Hogfing                        | 23 ноября<br>2020 15:41          | 16 мин. 45<br>сек  | 91,38 | 4 | 17,24 | <b>√</b> 17,24 | <b>√</b> 1,72 | 2 4 | 1,72 | <b>√</b> 13,79                           | <b>√</b> 17 | 24  | <b>√</b> 1,7) | 4   | 1,72 | √ 1.        | 72  | 1,72          | 4 |
| Калчикаев<br>Вадим<br>Геннадьевич<br>Просмотр<br>попытки  | Email                    |     | Завершенные | 6<br>декабря<br>2020<br>21:56  | 5 декабря<br>2020 22:17          | 21 мин. 37<br>сек  | 93,10 | 4 | 17,24 | <b>√</b> 17,24 | <b>√</b> 1,72 | 2 🗸 | 1,72 | <b>√</b> 13,79                           | <b>√</b> 17 | .24 | <b>√</b> 1,73 | 2 × | 0,00 | <b>√</b> 1. | .72 | <b>√</b> 1,72 |   |
| Какорин<br>Виктор<br>Александрович<br>Просмотр<br>попытки | wittorio kakorin@mail.ru | 217 | Завершенные | 6<br>декабря<br>2020<br>22:17  | 6 декабря<br>2020 22:42          | 24 мин. 52<br>сек  | 99,14 | 4 | 17,24 | <b>√</b> 17,24 | <b>√</b> 1,72 | 4   | 1,72 | <b>√</b> 17,24                           | <b>√</b> 17 | .24 | <b>√</b> 1,73 | 2 4 | 1,72 | <b>√</b> 1. | 72  | <b>√</b> 1,72 |   |
| Паутов Денис<br>Васильевич<br>Просмотр<br>попытки         | d.pautov2018@yandex.ru   | 237 | Завершенные | 11<br>декабря<br>2020<br>18:23 | 11 декабря<br>2020 <b>1</b> 8:42 | 19 мин. 27<br>сек. | 94,83 | 1 | 15,52 | <b>√</b> 17,24 | √ 1,72        | 2 🗸 | 1,72 | <b>√</b> 17,24                           | <b>√</b> 17 | ,24 | √ 1,72        | 2 🗸 | 1,72 | <b>×</b> 0, | 00  | <b>√</b> 1,72 |   |
| Балин Кирилл<br>Геннадьевич                               | kirilas12@gmail.com      | 217 |             | 14                             |                                  |                    |       |   |       |                |               |     |      |  |             |     |               |     |      |             |     |               |   |

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начат Завершено время

Отображать все вопросы на одной странице Закончить обзор

Вопрос 20 Определите, о каком типе ценностей идет речь: Верно Where individuals attach value from the fact that the ecosys Баллов: 1.00 из 1,00 Выберите один ответ. Altruistic value ф Редактировать Option value

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Валентина Васильевна Подколзина

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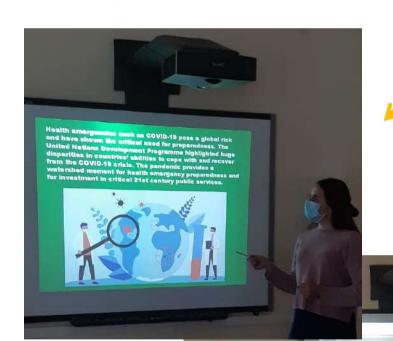
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| Кирилл Геннадьевич  Балин          |                         | kirillas12@gmail.com     | 217  | 81,64                   |
| Антон Анатольевич<br>Буравцов      |                         | anton_buravtsov@mail.ru  | 237  | 89,09                   |
| Алёна Вячеславовна<br>Деметревских |                         | ademetrevskikh@mail.ru   | 217  | 88,49                   |
| Виктор Александрович<br>Какорин    |                         | wittorio.kakorin@mail.ru | 217  | 88,22                   |
| Вадим Геннадьевич<br>Капчикаев     |                         | Email                    | 237  | 63,12                   |
| Денис Васильевич<br>Паутов         |                         | d.pautov2018@yandex.ru   | 237  | 83,44                   |
| Валентина Васильевна<br>Подколзина |                         | podkolzina.valya@bk.ru   | 237  | 79,82                   |
| Семен Юрьевич<br>Темников          |                         | temnikov.sema@mail.ru    | 237  | 90,00                   |
|                                    |                         | Общее с                  | реднее   | 82,98                   |



# Individual and group projects











#### elopment:

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ability of the environment to absorb them.

nal Commission on Environment EDD) was established, the great e understanding of the need to development of both groups of cess of areening and a result, the concept of opment" was born, which is





# Questionnaire for the students completed the course

- 1. I was provided with overall information about the aim, objectives and contents of the course.
- 2. The length of the course was optimal.
- 3. Evaluate the course content with regard to the level of its complexity.
- 4. Various methods and forms of work were used in the course.
- 5. The course was useful for my scientific/ professional development.
- 6. Your overall assessment of this course.

- 7. Which of the themes were the most interesting?
- 8. Which of the themes were the most difficult for understanding?
- 9. The use of video lectures helped me to acquire new information.
- 10. Does the Moodle platform help control and manage the learning process?
- 11. Does this course require improvement in your opinion? If yes, in which part?
- 12. Additional comments and wishes.

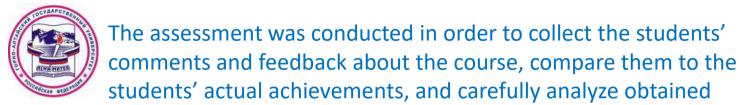
## Онлайн анкета-отзыв о курсе\_Questionnaire



📢 Ваше мнение важно для преподавателя!\_Your opinion is important to the teacher!







results to make necessary amendments to the course content or

It was a fully anonymous online survey posted on the course page

Ваше мнение важно для преподавателя! Your opinion is important to the teacher! Какие из предложенных тем вызывали у Вас наибольший интерес? Редактировать вопросы Шаблоны Анализ результатов Показать ответивших - Global Significance of Mountain Territories - Global significance of mountain territories Экспорт в Excel тема 1 - Значение горных территорий на глобальном уровне Bonnocoe: 12 Оцените уровень сложности курса - не знаю, все плюс минус одниково Освоение каких тем вызвало наибольшие трудности? полож станалей сторы на пли изрежник мей паменай пристрительной был менестрительных стан его пострий - тема 2 - Economic Valuation of Ecosystem Services - Ecosistem servises: essence and history of development - 3.4 темы - Экосистемные услуги курс был достаточно простым, котя накоторые темы и их годаниз вызывали интерес Скрыть данные диаграммы Ответы ос оказался: элементарным, большая часть поедставленной информации была мне эндком курс оказался слишком сложным для усвоения, мой личный опыт подготовки был недостаточным для его восприятия 3 (50.00 %) 3 (50,00 %) курс был достаточно простым, хотя некоторые темы и их подача вызывали интерес курс оказался элементарным, большая часть представленной информации была мне знакома

teaching methodology.