МИНОБРНАУКИ РОССИИ

Федеральное государственное автономное образовательное учреждение высшего образования "Пермский государственный национальный исследовательский университет"

Кафедра биогеоценологии и охраны природы

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Программа учебной практики

GROUP PROJECT WORK

Код УМК 101189

Утверждено Протокол №9 от «15» мая 2024 г.

1. Вид практики, способ и форма проведения практики

Вид практики учебная

Тип практики практика по получению первичных профессиональных умений и навыков

Способ проведения практики стационарная, выездная

Форма (формы) проведения практики дискретная

2. Место практики в структуре образовательной программы

Учебная практика « Group project work » входит в обязательную часть Блока « Б.2 » образовательной программы по направлениям подготовки (специальностям):

Направление: **05.03.06** Экология и природопользование направленность Экологическая инженерия и новая энергетика

Цель практики:

Acquisition the skills of working in a team, mastering the methods of laboratory and field research in the development of an environmental project.

Задачи практики:

- 1. To teach how to develop environmental projects
- 2. To develop communication and teamwork skills;
- 3. To develop skills in collecting and analyzing stock and literary materials;
- 4. To master the methods of laboratory research;
- 5. To master the methods of field research.

3. Перечень планируемых результатов обучения

В результате прохождения практики **Group project work** у обучающегося должны быть сформированы следующие компетенции:

- **05.03.06** Экология и природопользование (направленность : Экологическая инженерия и новая энергетика)
- **ПК.1** Способен осуществлять выполнение экспериментов и оформление результатов исследований и разработок

Индикаторы

- **ПК.1.1** Постановка, планирование и решение научно-исследовательских задач по закрепленной тематике
- **ПК.1.2** Использует в профессиональной деятельности экспериментальные и полевые методы научного исследования
- **ПК.1.3** Анализирует, интерпретирует, обобщает полученные научные данные, представляет в виде отчетов, обзоров, научных работ
 - УК.12 Способен формировать нетерпимое отношение к коррупционному поведению

Индикаторы

- **УК.12.3** Осуществляет взаимодействие на основе нетерпимого отношения к коррупционному поведению в социальной и профессиональной сферах
 - УК.3 Способен участвовать в реализации группового проекта

Индикаторы

- УК.3.1 Решает задачи, предусмотренные конкретной ролью в командной работе
- **УК.3.2** Разрешает противоречия и конфликты, возникающие в ходе командной работы, корректирует работу команды и перераспределяет роли с учетом интересов сторон

4. Содержание и объем практики, формы отчетности

Направление подготовки	05.03.06 Экология и природопользование (направленность:
	Экологическая инженерия и новая энергетика)
форма обучения	очная
№№ триместров,	4,5
выделенных для	
прохождения практики	
Объем практики (з.е.)	6
Объем практики (ак.час.)	216
Форма отчетности	Экзамен (4 триместр)
	Экзамен (5 триместр)

Примерный график прохождения практики

Примерный график прохождения практики				
Количество часов	Содержание работ	Место проведения		
Project reali	Project realization stages			
108	1) Group project work is a way to achieve a didactic goal through a detailed development of an environmental problem, which should end with a well-defined practical result, framed in one way or another. This gives students the opportunity to actively express themselves in the system of social relations, contributes to the formation of a new social position, allows them to acquire the skills of planning and organizing their activities, discover and realize creative abilities, develop the personality of the individual. 2) The forms of practice for persons with disabilities and disabilities are determined taking into account the peculiarities of psychophysiological development, individual capabilities and health status of students. There may be changes in the time frame for passing the current interim certification, namely, an increase in the time for preparing and submitting the practice report is provided	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.		
Preparate				
16	Select a topic for a group project. Definition of the environmental problem and the resulting goals and objectives of the study. Finding ways to solve the problem.	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.		

Количество часов	Содержание работ	Место проведения		
Planning stage				
30	Planning: discussion of research methods, identification of information sources, ways of collecting and analyzing information, ways of presenting results, distribution of tasks and responsibilities in the group	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.		
	nd exploration stage			
46	Research: collection and systematization of information, solution of intermediate tasks by field and laboratory studies. Preparation of the project budget.	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.		
The stage	e of presenting the results			
16	Presentation of results: analysis of the collected information, formulation of conclusions. Preparation of the report. Project protection.	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.		
	zation stages	DOLL D. 1. 200 (
108	1) Group project work is a way to achieve a didactic goal through a detailed development of an environmental problem, which should end with a well-defined practical result, framed in one way	PSU, Faculty of Geography, Department of Biogeocenology and Nature		

оличество часов	Содержание работ	Место проведения
	or another. This gives students the opportunity to actively express themselves in the system of social relations, contributes to the formation of a new social position, allows them to acquire the skills of planning and organizing their activities, discover and realize creative abilities, develop the personality of the individual. 2) The forms of practice for persons with disabilities and disabilities are determined taking into account the peculiarities of psychophysiological development, individual capabilities and health status of students. There may be changes in the time frame for passing the current interim certification, namely, an increase in the time for preparing and submitting the practice report is provided	Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account he recommendations of the psychological, medical and pedagogical commission or the ITU.
Preparato		
16	Select a topic for a group project. Definition of the environmental problem and the resulting goals and objectives of the study. Finding ways to solve the problem.	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.
Planning	stage	
30	Planning: discussion of research methods, identification of information sources, ways of collecting and analyzing information, ways of presenting results, distribution of tasks and responsibilities in the group	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.
	nd exploration stage	
46	Research: collection and systematization of information, solution of intermediate tasks by field and laboratory studies. Preparation of the project budget.	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities

Количество часов	Содержание работ	Место проведения
		and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.
The stag	e of presenting the results	
16	Presentation of results: analysis of the collected information, formulation of conclusions. Preparation of the report. Project protection.	PSU, Faculty of Geography, Department of Biogeocenology and Nature Protection For students with disabilities and disabilities, alternative places of practice are provided, individually provided, taking into account the recommendations of the psychological, medical and pedagogical commission or the ITU.

5. Перечень учебной литературы, необходимой для проведения практики

Основная

- 1. Robert Fletcher, Marie-Josée Fortin "Spatial Ecology and Conservation Modeling Applications with R" ISBN 978-3-030-01989 [Электронный ресурс] URL: https://link.springer.com/book/10.1007/978-3-030-01989-1#about https://link.springer.com/book/10.1007/978-3-030-01989-1
- 2. Massenov, K. B. Industrial ecology : the monograph / К. B. Massenov, E. T. Abseitov. Алматы : Нур-Принт, 2016. 398 с. ISBN 978-601-238-541-0. Текст : электронный // Электронно-библиотечная система IPR BOOKS : [сайт]. https://www.iprbookshop.ru/69045
- 3. Myrna H. P. Hall, Understanding Urban Ecology. An Interdisciplinary Systems Approach / Myrna H. P. Hall, Stephen B. Balogh // Springer, Cham, 2019. 360 p. ISBN 978-3-030-11259-2. Текст: электронный // Электронно-библиотечная система SpringerLink: [сайт]. https://link.springer.com/book/10.1007/978-3-030-11259-2
- 4. Dietland Muller-Schwarze. Hands-On Chemical Ecology. Simple Field and Laboratory Exercises. Springer-Verlag New York 2009. Online ISBN 978-1-4419-0378-5. Текст электронный: // https://link.springer.com/book/10.1007/978-1-4419-0378-5 https://link.springer.com/book/10.1007/978-1-4419-0378-5
- 5. Seema Sahdev, Geoecology of Landscape Dynamics / Seema Sahdev, R. B. Singh, Manish Kumar // Publisher Name: Springer, Singapore, 2020. 381 р. ISBN978-981-15-2097-6. Текст: электронный // Электронно-библиотечная система SpringerLink: [сайт]. https://link.springer.com/book/10.1007/978-981-15-2097-6

Дополнительная

- 1. Остроумова, А. В. Green Issues. A brief study into ecology: communication practice book (Зеленые проблемы. Краткое исследование экологии: пособие для студентов вузов) / А. В. Остроумова. Санкт-Петербург: Издательство РГПУ им. А. И. Герцена, 2022. 107 с. ISBN 978-5-8064-3176-0. Текст: электронный // Цифровой образовательный ресурс IPR SMART: [сайт]. https://www.iprbookshop.ru/131686
- 2. Robert C. Brears. Natural Resource Management and the Circular Economy. Palgrave Macmillan, Cham, 2018. ISBN 978-3-319-71888-0 [Электронный ресурс] https://link.springer.com/book/10.1007/978-3-319-71888-0
- 3. Rajesh Tandon, Reproductive Ecology of Flowering Plants: Patterns and Processes / Rajesh Tandon, K. R. Shivanna, Monika Koul // Publisher Name: Springer, Singapore, 2020. 413 р. ISBN 978-981-15-4210-7. Текст: электронный // Электронно-библиотечная система SpringerLink: [сайт]. https://link.springer.com/book/10.1007/978-981-15-4210-7
- 4. Martin Kaltschmitt, Wolfgang Streicher, Andreas Wiese. Renewable Energy. Technology, and Environment Economics. Springer-Verlag Berlin Heidelberg 2007. Online ISBN 978-3-540-70949-7. Текст электронный: // https://link.springer.com/book/10.1007/3-540-70949-5 https://link.springer.com/book/10.1007/3-540-70949-5

6. Перечень ресурсов сети «Интернет», требуемых для проведения практики

При прохождении практики требуется использование следующих ресурсов сети «Интернет» :

http://lybs.ru/index-781.htm Project Management - Lecture notes (UDPSU)

https://priroda.permkrai.ru/ Ministry of Natural Resources, Forestry and Ecology of the Perm Region https://priroda.permkrai.ru/environment-control/docs_uoos/ Regulatory framework in the field of environmental policy and environmental protection

http://lybs.ru/index-781.htm Project Management - Lecture notes (UDPSU)

https://priroda.permkrai.ru/ Ministry of Natural Resources, Forestry and Ecology of the Perm Region https://priroda.permkrai.ru/environment-control/docs_uoos/ Regulatory framework in the field of environmental policy and environmental protection

7. Перечень информационных технологий, используемых при проведении практики

Образовательный процесс по практике **Group project work** предполагает использование следующего программного обеспечения и информационных справочных систем:

Presentation materials (slides on the topics of lectures and practical classes); on-line access to the Electronic Library System; access to the electronic information and educational environment of the university.

Internet services and electronic resources (search engines, e-mail, professional thematic chats and forums, audio and video conference systems, online encyclopedias, etc.)

Office application package "LibreOffice". Programs, demonstrations of video materials (player). Software for the laptop: OS "Alt Education" (Contract No. DS 003-2020).

При освоении материала и выполнения заданий по дисциплине рекомендуется использование материалов, размещенных в Личных кабинетах обучающихся ЕТИС ПГНИУ (**student.psu.ru**).

При организации дистанционной работы и проведении занятий в режиме онлайн могут использоваться:

система видеоконференцсвязи на основе платформы BigBlueButton (https://bigbluebutton.org/). система LMS Moodle (http://e-learn.psu.ru/), которая поддерживает возможность использования текстовых материалов и презентаций, аудио- и видеоконтент, а так же тесты, проверяемые задания, задания для совместной работы.

система тестирования Indigo (https://indigotech.ru/).

8. Описание материально-технической базы, необходимой для проведения практики

For conducting seminars (practical) type classes, conducting group and individual consultations, routine monitoring and intermediate certification-an audience equipped with presentation equipment (projector, screen, laptop) with appropriate software, chalk or marker board.

Independent work: An audience for independent work, equipped with computer equipment with the ability to connect to the Internet, provided with access to the electronic information and educational environment of the university. Premises of the Scientific Library of PSU.

For field practice forms - equipment provided by the organization.

Помещения научной библиотеки ПГНИУ для обеспечения самостоятельной работы обучающихся:

1. Научно-библиографический отдел, корп.1, ауд. 142. Оборудован 3 персональными компьютера с доступом к локальной и глобальной компьютерным сетям.

- 2. Читальный зал гуманитарной литературы, корп. 2, ауд. 418. Оборудован 7 персональными компьютерами с доступом к локальной и глобальной компьютерным сетям.
- 3. Читальный зал естественной литературы, корп.6, ауд. 107а. Оборудован 5 персональными компьютерами с доступом к локальной и глобальной компьютерным сетям.
- 4. Отдел иностранной литературы, корп.2 ауд. 207. Оборудован 1 персональным компьютером с доступом к локальной и глобальной компьютерным сетям.
- 5. Библиотека юридического факультета, корп.9, ауд. 4. Оборудована 11 персональными компьютерами с доступом к локальной и глобальной компьютерным сетям.
- 6. Читальный зал географического факультета, корп.8, ауд. 419. Оборудован 6 персональными компьютерами с доступом к локальной и глобальной компьютерным сетям.

Все компьютеры, установленные в помещениях научной библиотеки, оснащены следующим программным обеспечением:

Операционная система ALT Linux;

Офисный пакет Libreoffice.

Справочно-правовая система «КонсультантПлюс»

9. Методические указания для обучающихся по прохождению практики

The project is issued in the form of a report. Registration according to the methodological recommendations for the preparation of term papers and WRC.

Structure of the Group project report:

- name:
- description of the problem;
- project goal;
- project tasks;
- activity content;
- project implementation period;
- expected project results;
- project resources;
- cost estimate:
- possible project risks.

Фонды оценочных средств для проведения промежуточной аттестации

Планируемые результаты обучения по практике для формирования компетенции. Индикаторы и критерии их оценивания

ПК.1 Способен осуществлять выполнение экспериментов и оформление результатов исследований и разработок

Компетенция (индикатор)	Планируемые результаты обучения	Критерии оценивания результатов обучения
ПК.1.2	Know the basic methods of	Неудовлетворительно
Использует в	laboratory environmental research	Does not know the basic methods of laboratory
профессиональной	Be able to process data obtained	environmental studies
деятельности	in the course of laboratory	Does not know how to process data obtained in
экспериментальные и	environmental studies	the course of laboratory environmental studies
полевые методы	Master the entire methodology of	Does not know the methodology of laboratory
научного исследования	laboratory environmental research	environmental studies
		Удовлетворительно
		Knows (with significant gaps) the methods of
		laboratory environmental studies
		There are initial skills of processing data
		obtained in the course of laboratory
		environmental studies
		He/she does not know all the methodology of
		laboratory environmental research
		Хорошо
		Knows (with minor errors) the methods of
		laboratory environmental studies
		It is able to process data obtained in the course
		of laboratory environmental studies without
		significant errors
		Owns almost all the methodology of laboratory
		environmental research
		Отлично
		Knows the basic methods of laboratory
		environmental research
		It is able to process data obtained in the course
		of laboratory environmental studies
		Owns the entire methodology of laboratory
		environmental research
ПК.1.3	Know the basic methods of field	Неудовлетворительно
Анализирует,	environmental research	Does not know the basic methods of field
интерпретирует,	Be able to process data obtained	environmental research
обобщает полученные	in the course of field	Does not know how to process data obtained in
научные данные,	environmental studies	the course of field environmental studies
представляет в виде	Possess the entire methodology of	Does not know the methodology of field
отчетов, обзоров,	field environmental research	environmental research
научных работ		V
		Удовлетворительно Vnova (with significant gaps) the methods of
		Knows (with significant gaps) the methods of field environmental research
		There are initial skills in processing data

		Удовлетворительно obtained in the course of field environmental studies He/she does not know all the methodology of field environmental research Хорошо Клоws (with minor errors) the methods of field environmental research He\she is able to process data obtained in the course of field environmental studies without significant errors He/she is proficient in almost all the methodology of field environmental research Отлично Клоws the basic methods of field environmental research He/she is able to process data obtained in the
		course of field environmental studies Owns the entire methodology of field
		environmental research
ПК.1.1 Постановка, планирование и решение научно- исследовательских задач по закрепленной тематике	Know the basic principles of setting research tasks on a fixed topic Be able to how to plan research activities on a fixed topic Possess the skills of solving research problems on a fixed topic	Удовлетворительно Knows superficially the principles of setting research tasks on a fixed topic Knows how to plan research activities on a fixed topic with gross errors Possesses the skills of solving research problems on a fixed topic at a low level Хорошо Knows some principles of setting research tasks on a fixed topic Knows how to plan research activities on a fixed topic with minor errors
		Possesses the skills of solving research problems on a fixed topic at the intermediate level Отлично Knows the basic principles of setting research tasks on a fixed topic Knows how to plan research activities on a fixed topic Possesses the skills of solving research

	Отлично
	problems on a fixed topic

УК.3 Способен участвовать в реализации группового проекта

Компетенция (индикатор)	Планируемые результаты обучения	Критерии оценивания результатов обучения
УК.3.2 Разрешает противоречия и конфликты, возникающие в ходе командной работы, корректирует работу команды и перераспределяет роли с учетом интересов сторон	Know your role in the team and strive to fulfill it Be able to resolve contradictions and conflicts that arise in the course of teamwork Possess the ability to adjust the work of the team and reallocate roles taking into account the interests of the parties	Неудовлетворительно Doesn't know his role in the team Does not know how to resolve contradictions and conflicts that arise in the course of teamwork Does not have the ability to adjust the work of the team and reallocate roles taking into account the interests of the parties Удовлетворительно Клоws his role in the team, but does not fulfill it He/she is able to resolve some contradictions and conflicts that arise in the course of teamwork Tries to adjust the work of the team and redistribute the roles taking into account the interests of the parties Хорошо Не/she knows his role in the team, practically fulfills it He/she is able to resolve almost all contradictions and conflicts that arise in the course of teamwork Has the ability to adjust the work of the team, but to redistribute the roles without taking into account the interests of the parties Отлично Не/she knows his role in the team and strives to fulfill it He/she is able to resolve contradictions and conflicts that arise in the course of teamwork
		Has the ability to adjust the work of the team and reallocate roles taking into account the interests of the parties
УК.3.1 Решает задачи, предусмотренные конкретной ролью в командной работе	Know the effective principles of distribution in which the responsibility of each role does not exceed the skills of the team member who got this role. Be able to assign functional roles in teamwork Have the skills to organize teamwork	Неудовлетворительно Does not know the effective principles of distribution in which the responsibility of each role does not exceed the skills of the team member who got this role Does not know how to assign functional roles in teamwork Does not have the skills to organize team work Удовлетворительно Knows ineffective principles of distribution in

Удовлетворительно

which the responsibility of each role does not exceed the skills of the team member who got this role

Can distribute functional roles in team work with gross shortcomings

Has the skills to organize team work at a low level

Хорошо

Knows some effective principles of distribution in which the responsibility of each role does not exceed the skills of the team member who got this role

Can assign functional roles in team work with minor drawbacks

Has the skills to organize team work at the intermediate level

Отлично

Knows effective distribution principles in which the responsibility of each role does not exceed the skills of the team member who got this role Can distribute functional roles in teamwork Has the skills to organize team work at a high level

УК.12 Способен формировать нетерпимое отношение к коррупционному поведению

Компетенция Планы	ируемые результаты	Критерии оценивания результатов
(индикатор)	обучения	обучения
УК.12.3 Осуществляет сотгиртоваимодействие на основе нетерпимого отношения к саses of коррупционному поведению в социальной и профессиональной соттошения к соттошения к саме об точношения к соттопношения соттопношения соттопношения соттопношения соттопношения соттопношения соттопношения к соттопношения к саме об точношения саме об точношения саме об точношения к	r: The basics of anti- on legislation and the es of ethics. to: Identify and prevent corrupt behavior in the ad professional nent. Interaction and ication skills to maintain rrant attitude towards	Неудовлетворительно Know: Does not know the basic provisions of anti-corruption legislation and principles of ethics. Be able to: Cannot identify or prevent cases of corrupt behavior. Possesы: Does not possess the skills of interaction and communication to maintain an intolerant attitude towards corruption. Удовлетворительно Know: Knows the main provisions of anti-corruption legislation, but has difficulties with their application. Be able to: Able to identify cases of corrupt behavior, but has difficulty preventing them. Possess: Has basic interaction and communication skills, but does not always successfully maintain an intolerant attitude towards corruption. Хорошо Know: Knows the basic provisions of anti-corruption legislation and the principles of ethics well, but makes minor mistakes. Be able to: Be able to identify and prevent cases of corrupt behavior, but not always effectively. Proficiency: Has good interaction and communication skills, maintaining an intolerant attitude towards corruption, but sometimes makes mistakes. Отлично Know: Fully understands the basics of anti-corruption legislation and the principles of ethics, demonstrating a deep understanding. Be able to: Confidently and effectively identify and prevent cases of corrupt behavior in any situation. Proficiency: Has excellent interaction and communication skills, effectively maintaining

Вид мероприятия промежуточной аттестации: Экзамен

Способ проведения мероприятия промежуточной аттестации : Защищаемое контрольное мероприятие

Продолжительность проведения мероприятия промежуточной аттестации : время отводимое на доклад 2

Показатели оценивания

The student does not know modern methods of field and laboratory environmental	Неудовлетворительно
research. It can not resolve contradictions and conflicts that arise in the course of	
teamwork, is not able to plan and adjust the work of the team and redistribute	
roles taking into account the interests of the parties. Unable to present their own	
opinions on a particular problem in the professional field; experiencing	
insurmountable difficulties in the implementation of the tasks of the practice,	
writing a report and in the course of its defense.	
The student is partially proficient in laboratory environmental research methods.	Удовлетворительно
He is able to work in a team and organize the workflow, resolve contradictions	
and conflicts that arise in the course of teamwork, but he is not able to plan and	
adjust the work of the team and redistribute roles taking into account the interests	
of the parties. He has the skills of collective work, but can not present his own	
opinion on a particular problem in the field of ecology and nature management; he	
has some problems in the course of performing practical tasks, writing a report	
and defending it.	
The student knows some methods of field and laboratory environmental research.	Хорошо
He is able to work in a team and organize the work process, plan the work of the	-
team, resolve contradictions and conflicts that arise in the course of teamwork,	
adjust the work of the team and redistribute roles without taking into account the	
interests of the parties. He has the skills of teamwork, presenting his own opinion	
on a particular problem in the field of ecology and nature management in the	
course of performing practical tasks, preparing a report and defending it; at the	
same time, it does not do this quite confidently, and allows certain inaccuracies in	
the design of the practice report, which nevertheless do not affect the final result	
of the work.	
The student is proficient in modern methods of field and laboratory environmental	Отлично
research. He is able to work in a team and organize the working process, resolve	
contradictions and conflicts that arise in the course of teamwork, and adjust the	
work of the team and redistribute roles taking into account the interests of the	
parties. He has all the necessary skills of teamwork, presenting his own opinion on	
a particular problem in the field of ecology and nature management in the course	
of performing practical tasks, preparing a report and defending it	

Оценочные средства

Вид мероприятия промежуточной аттестации: Экзамен

Способ проведения мероприятия промежуточной аттестации : Защищаемое контрольное мероприятие

Продолжительность проведения мероприятия промежуточной аттестации:

время отводимое на доклад 2

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has some problems in the course of performing practical tasks, writing a report	
and defending it.	
The student knows some methods of field and laboratory environmental research.	Хорошо
He is able to work in a team and organize the work process, plan the work of the	_
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