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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA named after Patrice Lumumba
RUDN University**

Faculty of Science

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Higher education pedagogy

course title

Recommended by the Didactic Council for the Education Field of:

04.04.01 «Chemistry»

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

«Bioenergies and Biorefineries»

higher education programme profile/specialisation title

2025

1. COURSE GOAL

The goal of the course “Higher education pedagogy” is to form the ability to carry out professional and pedagogical activities in colleges and higher educational institutions based on knowledge of didactics of higher education, theory of education and management of education. The training course forms the skills of organizing educational and educational processes in higher education and college. The discipline is aimed at mastering the teaching methods of various forms of educational and educational work.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course “Higher education pedagogy” is aimed at the development of the following competences:

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-2	Ability to manage a project at all stages of its life cycle.	GC-2.1. Ability to formulate, on the basis of the posed problem, a project task and a way to solve it through the implementation of project management;
		GC-2.2. Ability to develop the project concept within the framework of the indicated problem: to formulate the goal, objectives, to justify the relevance, significance, expected results and possible areas of their application;
		GC-2.3. Ability to plan the necessary resources, including taking into account their replaceability;
		GC-2.4. Ability to develop a project implementation plan using planning tools;
		GC-2.5. Ability to monitor the progress of the project, to correct deviations, to make additional changes to the project implementation plan, to clarify the areas of responsibility of the project participants
GC-6	Ability to identify and implement the priorities of their own activities and self-development based on self-assessment.	GC-6.1. Ability to evaluate their resources and their limits (personal, situational, temporary), optimally use them for the successful completion of the assigned task;
		GC-6.2. Ability to determine the priorities of professional growth and ways to improve their own activities based on self-assessment according to the selected criteria;
		GC-6.3. Ability to build a flexible professional trajectory using the tools of continuing education, taking into account the accumulated experience of professional activity and dynamically changing requirements of the labor market
PC-3	Ability to carry out pedagogical activity.	PC-3.1. Ability to conduct theoretical and practical classes on the program profile;

Competence code	Competence descriptor	Competence formation indicators (within this course)
		PC-3.2. Ability to organize and manage project activities of students; PC-3.3. Ability to apply the norms of professional ethics in its activities, to ensure the confidentiality of information about the subjects of educational relations obtained in the process of professional activities.
PC-4	Ability to provide organizational and methodological support for the educational process.	PC-4.1. Ability to develop elements of discipline programs in accordance with regulations in the field of education; PC-4.2. Ability to carry out the selection of pedagogical and other technologies, including information and communication technologies, used in the development of basic and additional educational programs and their elements.

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course “Higher education pedagogy” refers to the **core** component of B1 block of the higher educational programme curriculum.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GC-2	Ability to manage a project at all stages of its life cycle.		Actual problems of modern chemistry Student Scientific- Research work Teaching practical training Pre-graduation practical training
GC-6	Ability to identify and implement the priorities of their own activities and self-development based on self-assessment.		Actual problems of modern chemistry History and philosophy of science Student Scientific- Research work Teaching practical training Pre-graduation practical training
PC-3	Ability to carry out pedagogical activity.		Teaching practical training
PC-4	Ability to provide organizational and		Teaching practical training

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
	methodological support for the educational process.		

* To be filled in according to the competence matrix of the higher education programme.

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

1)The total workload of the course “The method of working with databases” is 2 credits (72 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)**

Type of academic activities		Total academic hours	Semesters/training modules			
			1	2	3	4
<i>Contact academic hours</i>		34	18	16		
including:						
Lectures (LC)		17	9	8		
Lab work (LW)						
Seminars (workshops/tutorials) (S)		17	9	8		
<i>Self-studies</i>		29	18	11		
<i>Evaluation and assessment (exam/passing/failing grade)</i>		9		9		
Course workload	academic hours	72	36	36		
	credits	2	1	1		

5. COURSE MODULES AND CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1. Theoretical and methodological foundations of pedagogy.	Topic 1.1. Pedagogical science, its place in the system of scientific human knowledge	LC, S
	Topic 1.2. Pedagogy of higher education and the tasks of improving higher education.	LC, S
	Topic 1.3. Methodology and methods of pedagogical science.	
	Topic 1.4. On the way to the national idea of Kazakhstan and the goals of education at the university	
	Topic 1.5. The pedagogical process of higher education as the subject and object of the activity	

Course module title	Course module contents (topics)	Academic activities types
	of a higher school teacher.	
	Topic 1.6. The potential of socialization of students in higher education.	
	Topic 1.7. Continuous education system in Kazakhstan.	
Module 2. Theory of higher education	Topic 2.1. Professional competence of a high school teacher.	LC, S
	Topic 2.2. The process of studying in higher education	LC, S
	Topic 2.3. Driving forces and principles of higher education	
	Topic 2.4 Methods and forms of higher education	
	Topic 2.5 Active methods and forms of education in the training of future specialists	
	Topic 2.6 New educational technologies in higher education. Formation of new educational technologies in higher education. Modern learning technology is an integral didactic system.	
	Topic 2.7 Technology of organization of interaction and cooperation of subjects of the educational process in the conditions of the credit system of education	
	Topic 2.8 Quality management of education. Research and educational research work of the student	

* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	A lecture hall for lecture-type classes, equipped with a set of specialised furniture; board (screen) and a set of devices for multimedia presentations.	Projector, motorized screen for projectors, wi-fi
Seminar	A classroom for conducting seminars, group and individual consultations, current and mid-	- portable multimedia projector Epson EB-X04

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
	term assessment; equipped with a set of specialised furniture and technical means for multimedia presentations.	- portable laptop Irbis NB25 - - portable TV Tosiba LSDTV/DVD Combo 22DV703R - tables, chairs, blackboard.
Self-studies	A classroom for self-studies (can be used for seminars and consultations), equipped with a set of specialised furniture and computers with access to the electronic information and educational environment.	Faculty of Science Reading Room Ordzhonikidze D.3. Coworking area Monday - Friday 10.00 – 22.00 Reading room of the main building of the RUDN Coworking area Monday - Saturday 9.00 - 23.00 Hall No. 2 Monday - Thursday 10.00 - 17.45 Friday 10.00 - 16.45 Hall No. 6 Monday - Thursday 10.00 - 17.45 Friday 10.00 - 16.45

* The premises for students' self-studies are subject to **MANDATORY** mention

7. RECOMMENDED RESOURCES FOR COURSE STUDY

Main literature:

1. Geoff Petty. Teaching today. A practical Guide. Fourth Edition. United Kingdom, Nelson Thornes Ltd, 2019. -614p.

Additional literature:

Internet sources

1. Electronic libraries with access for RUDN students:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" www.studentlibrary.ru
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"
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Databases and search engines:

- electronic foundation of legal and normative-technical documentation
<http://docs.cntd.ru/>
- Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>

DEVELOPERS:

Associate Professor of the

Department of Social Pedagogy

and Self-knowledge

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position, department

signature

name and surname

**HEAD OF EDUCATIONAL
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Voskressensky L.G.

name of department

signature

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**HEAD
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Head of Organic Chemistry

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