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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University**

Institute of Environmental Engineering

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

INTERNSHIP SYLLABUS

Pedagogical Training

(internship type)

Scientific specialty:

1.5.15 Ecology

(scientific speciality code and title)

The PhD student's internship is implemented within the PhD programmes:

Ecology: Modern Environmental Studies

(PhD program title)

1. INTERNSHIP GOALS

The aim of the Internship is to develop professional competencies through direct participation in pedagogical work, as well as the acquisition of professional competencies necessary to work in the professional sphere.

2. REQUIREMENTS FOR LEARNING OUTCOMES

To know:

- deepen and consolidate theoretical knowledge in the disciplines of the professional cycle methods, techniques, technologies of pedagogical activity in higher education
modern technical and information means that increase the effectiveness of training procedures, and their application in seminars and practical classes.

To own:

- teaching and educational skills in secondary and higher education; experience of teaching in a higher education institution;
- skills in preparing reference, auxiliary, control educational materials, presentations and their use for conducting classes;

Be able to

- professionally communicate with the audience during classes;

The objectives of the scientific and pedagogical internship are:

- Acquiring teaching and educational skills in secondary and higher education;
 - Deepening and consolidating theoretical knowledge in professional disciplines during scientific and pedagogical activities;
 - Gaining teaching experience in a higher education institution;
 - Developing skills in professional communication with the audience during classes;
- Developing in postgraduate students a holistic understanding of pedagogical activity, pedagogical systems, and the structure of higher education;
- Introducing postgraduate students to real-world problems solved in the educational process at an institution of higher professional education;
 - Studying methods, techniques, and technologies of pedagogical activity in higher education;
 - Acquiring skills in preparing reference, auxiliary, and assessment educational materials, presentations, and using them for classes; Studying modern technical and information tools that increase the effectiveness of teaching procedures and their application in seminars and practical classes.

3. INTERNSHIP WORKLOAD

The overall workload of the internship is 6 credits (216 academic hours).

4. INTERNSHIP CONTENTS

Stages of internship	Content of the units (topics)	Workload, acad. hours
Section 1.	Receiving an individual internship assignment from your supervisor and completing a safety briefing at the workplace.	1
	Introduction to RUDN University's SUT and the working curriculum for one of the main educational programs. Consultation on documentation.	71

Section 2.	mastering organizational forms and methods of teaching in a higher educational institution using the example of the department's activities	108
	acquiring practical skills in educational and methodological work in higher education, preparing educational material on the required topic for a lecture, practical lesson, and skills in organizing and conducting classes using modern teaching technologies	
	study of educational and methodological literature and software for the recommended disciplines of the curriculum	
	direct participation in the educational process, fulfillment of the teaching load provided for by the individual work plan.	
Section 3. Intermediate certification	Editing the practice report	26
	Submitting and defending the practice report	10
Total academic hours of internship:		216

During the internship, the postgraduate student:

- conducts practical (seminar) or laboratory classes and their analysis, attends classes of their fellow postgraduate students and lectures by leading faculty members of the department;
- organizes educational events with students, accumulates scientific data necessary for the dissertation, and may also participate in scientific conferences and attend meetings of the relevant department.
- co-supervises students' final qualifying work or master's thesis as directed by their supervisor;
- develops assignments, tests, cases, and plans for seminar, practical, and laboratory classes as directed by their supervisor;
- conducts experiments as part of research and/or dissertation research involving students; • participates in summer schools;
- prepares online courses (MOOCs) together with the supervisor.
- assists with students' summer internships.

5. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

The place of internship shall comply with the current sanitary and epidemiological requirements, fire safety regulations and standards of health protection of the students.

It requires classrooms that meet the safety requirements for academic work, if necessary, a computer room with workstations that provide Internet connection, as well as classrooms with multimedia equipment.

6. INTERNSHIP LOCATION AND TIMELINE

Internship can be carried out both in structural subdivisions of RUDN University or in organizations of Moscow (stationary), and at bases located outside of Moscow (exit).

Conducting internship on the basis of an external organization (outside RUDN University) is carried out on the basis of an appropriate agreement, which specifies the terms, place and conditions for performing scientific research in the base organization.

The deadlines for the internship implementation correspond to the period indicated in the calendar academic schedule of the postgraduate program. Internship dates can be adjusted in coordination with the Department of Doctoral Studies of the RUDN University.

7. RESOURCES RECOMMENDED FOR INTERNSHIP

Main readings:

1. Tirri, K., & Toom, A. (Eds.). (2020). Pedagogy in Basic and Higher Education - Current Developments and Challenges. IntechOpen. doi: 10.5772/intechopen.83007
2. Applied Pedagogies for Higher Education Real World Learning and Innovation across the Curriculum Dawn A. Morley, Md Golam Jamil Palgrave Macmillan, 2021, 425 pp
3. A Handbook for Teaching and Learning in Higher Education Enhancing Academic Practice Third edition Edited by Heather Fry Steve Ketteridge Stephanie Marshall Routledge, 2009, 544 pp

Additional readings:

1. Li, F., Wang, L. A study on textbook use and its effects on students' academic performance. *Discip Interdiscip Sci Educ Res* **6**, 4 (2024). <https://doi.org/10.1186/s43031-023-00094-1>
2. Morales, Lucía & Coetzer, Jon-Hans & Barkoczi, Nadia & Lia, Pop & Marian, Claudia & Flynn, Patrick. (2022). A Circular Pedagogy for Higher Education. 10.13140/RG.2.2.10493.44001.
3. Shivaji Rama Gudaji PEDAGOGY APPROACHES IN HIGHER EDUCATION 2019 JETIR March 2019, Volume 6, Issue 3 www.jetir.org (ISSN-2349-5162)

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Internet Resources:

ELS RUDN University and third party EBS, to which university students have access based signed contracts:

- RUDN Electronic Library System, <http://lib.rudn.ru/MegaPro/Web> ;
- ELS University Library Online, <http://www.biblioclub.ru> ;
- EBS Urayt, <http://www.biblio-online.ru> ;
- ELS Student Consultant, <http://www.studentlibrary.ru> ;
- EBS Lan, <http://e.lanbook.com> ;
- EBS Trinity Bridge <http://www.trmost.ru>

Databases and search engines:

- Electronic fund of legal and normative-technical documentation, <http://docs.cntd.ru> ;
- Yandex search system <https://www.yandex.ru> ;
- Google search system <https://www.google.com> ;
- Reference database Scopus , <http://www.elsevier.com/elsevier/scopus>

Educational and methodological materials for students' self-work studying the internship:

Instructions for labor protection and fire safety during practical training (initial instruction).

Guidelines for students to fill out a diary and prepare a report on internship.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM FOR EVALUATION OF PHD STUDENTS' COMPETENCES LEVEL AS INTERNSHIP RESULTS

Assessment toolkit and a grading system to evaluate the level of competences (competences in part) formation as the course results are specified on the TUIS platform.

DEVELOPERS:

Associate professor
Department of Environmental Management



Kapralova Daria

HEAD OF THE DEPARTMENT

Head of the Department
of Nature Management

A handwritten signature in blue ink, appearing to be 'D.E. Kucher', written in a cursive style.

Kucher D.E.