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

Academy of Engineering

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

INTERNSHIP SYLLABUS

Pedagogical Practice

internship title

Introductory

internship type

Recommended by the Didactic Council for the Education Field of:

08.04.01 Civil Engineering

field of studies / speciality code and title

The student's internship is implemented within the professional education programme of higher education:

Civil Engineering and Built Environment

higher education programme profile/specialisation title

1. INTERNSHIP GOAL(s)

The goal of the Internship is to deepen, systematize and consolidate theoretical knowledge, as well as to obtain primary skills and practical skills for conducting classes, developing teaching aids, preparing lecture notes and practical training programs in the disciplines of the training area.

The main objectives of the Internship are:

- to study information, domestic and foreign experience about modern pedagogical and educational information technologies;
- to learn the methods of preparation and teaching of various forms of lectures and practical classes, laboratory work;
- to master the primary practical skills and basic techniques of staging and conducting training sessions, as well as contact work with students.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The internship implementation is aimed at the development of the following competences (competences in part):

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-3	Able to organize and lead a team, developing a team strategy to achieve the goal	GC-3.1 Knows how to organize teamwork, develop a strategy to achieve the goal; GC-3.2 Able to monitor the progress of teamwork and adjust its work for the effective achievement of goals
GC-4	Able to use modern communication technologies in the state language of the Russian Federation and foreign language(s) for academic and professional interaction	GC-4.1 Carries out academic and professional interaction in Russian and foreign languages; GC-4.2 Uses modern information and communication technologies to search for information and solve standard communication tasks in Russian and foreign languages; GC-4.3 Able to present materials of academic and professional activities at public events
GC-5	Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	GC-5.1 Shows an understanding of the characteristics of different cultures; GC-5.2 Builds social interaction in personal and mass communication in order to fulfill professional tasks, taking into account the peculiarities of ethnic groups and faiths, philosophical and ethical teachings
PC-4	Organizational and pedagogical support of students	PC-4.1 Able to carry out the development of educational and methodological documentation under the guidance of an experienced teacher; PC-4.2 Able to prepare for classes with students or monitor the knowledge of students; PC-4.3 Able to perform teaching activities according to specialized basic educational programs or additional education programs under the guidance of an experienced teacher

3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

The Pedagogical Practice internship refers to the base component of B2 block of the higher educational programme curriculum.

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

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

Competence code	Competence descriptor	Previous courses / modules, internships	Subsequent courses / modules, internships
GC-3	Able to organize and lead a team, developing a team strategy to achieve the goal	Problem solving techniques in Civil Engineering; Project management	Independent Research Work; Final State Examination
GC-4	Able to use modern communication technologies in the state language of the Russian Federation and foreign language(s) for academic and professional interaction	Problem solving techniques in Civil Engineering	Independent Research Work; Final State Examination
GC-5	Able to analyze and take into account the diversity of cultures in the process of intercultural interaction		Final State Examination
PC-4	Organizational and pedagogical support of students	Problem solving techniques in Civil Engineering	Final State Examination

4. INTERNSHIP WORKLOAD

The total workload of the internship Pedagogical Practice is 3 credits (108 academic hours).

5. INTERNSHIP CONTENTS

*Table 5.1. Internship contents**

Modules	Contents (topics, types of practical activities)	Workload, academic hours
Organizational and preparatory	Receiving an individual task for practice from the head	2
	Briefing on safety at the workplace	2
Basic	Drawing up an individual practice plan. Familiarization with the documentation of the department on the educational process as a whole, as well as on those disciplines entrusted to the master.	17
	Attending classes of leading teachers, preparing for classes, participating in seminars, educational and methodological, organizational and methodological work.	28
	Conducting classroom classes with students and performing other types of educational activities	49
Reporting	Preparation of a report on the internship	4

Modules	Contents (topics, types of practical activities)	Workload, academic hours
	Intermediate assessment (preparation for the defense and defense of the report)	2
TOTAL:		108

* The contents of internship through modules and types of practical activities shall be FULLY reflected in the student's internship report.

6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

The infrastructure and technical support necessary for the internship implementation include:

Laboratory of hydrological and technical safety of hydraulic structures.

Computer class. Multimedia. Interactive board.

Laboratory and research bench for water supply.

Laboratory and research stand for heating

Laboratory and research stand for ventilation.

Laboratory equipped with the following equipment: modernized HMS-50 tensile testing machine, GMS-20 tensile testing machine, PG-100 press, KMU-5 twisting machine, 2PG-2.5 press, TR-294 lever strain gauges, 3UKPA-5 Aistov device, calipers, deflectometer - indicators of movement of the pointer type, desktop drilling machine NS-12Az, printer HP LJ 1012W sch. Peleng-500 diaprector, HP Presario CQ61 laptop, demo models, and installations.

7. INTERNSHIP LOCATION AND TIMELINE

The internship Pedagogical Practice can be carried out at the structural divisions of RUDN University.

Main internship locations:

- lecture halls of the Department of Civil Engineering;
- computer classes of the Department of Civil Engineering;
- Laboratories of the Department of Civil Engineering;

The place of internship must be agreed with the head of the practice and the management of the department.

Students with disabilities and/or those who are classified as "disabled" undergo practical training, in an accessible form for them, in the computer classes, laboratories, lecture halls of the university.

The period of the internship, as a rule, corresponds to the period indicated in the training calendar of the higher education programme. However, the period of the internship can be rescheduled upon the agreement with the Department of Educational Policy and the Department for the Organization of Internship and Employment of RUDN students.

8. RESOURCES RECOMMENDED FOR INTERNSHIP

Main readings:

1. Schreiber, K.A. Production technology of repair and construction works: monograph / K.A. Schreiber. - Moscow: ACB Publishing House, 2024. - 261 p. : illustrations, tables, schemes. - Bibliography: p. 258 - ISBN 978-5-4323-0038-6; Access mode: <http://biblioclub.ru/index.php?page=book&id=312360>.

2. Shirshikov, B.F. Reconstruction of objects: (Organization of work. Limitations. Risks): monograph / B.F. Shirshikov, M.N. Ershov. - Moscow: ACB Publishing House, 2020. - 115 p. :

tab., scheme., ill. - Bibliography. in book. - ISBN 978-5-93093-760-2; Access mode:<http://biblioclub.ru/index.php?page=book&id=273821>.

3. Mikhailov A.Yu., Technology and organization of construction. Workshop [Electronic resource]: Textbook / Mikhailov A.Yu. - M. : Infra-Engineering, 2018. - 196 p. - ISBN 978-5-9729-0140-1 - Access mode: <http://www.studentlibrary.ru/book/ISBN9785972901401.html>

Additional readings:

1. Komarov A.S., Construction technology of water supply and sanitation systems and facilities [Electronic resource]: textbook / A.S. Komarov, O.A. Ruzhitskaya - M. : Publishing house MISI - MGSU, 2017. - 81 p. - ISBN 978-5-7264-1751-6 - Access mode: <http://www.studentlibrary.ru/book/ISBN9785726417516.html>

2. Ivanov E.S., Technology and organization of work in the construction of environmental and water management facilities [Electronic resource] / E.S. Ivanov - M.: DIA Publishing House, 2017. - 560 p. - ISBN 978-5-4323-0018-8 - Access mode: <http://www.studentlibrary.ru/book/ISBN9785432300188.html>

3. Revich Ya.L., Technology of building production [Electronic resource]: Textbook / Revich Ya. L., Rudomin E.N., Mazhaisky Yu.A. etc. - M. : DIA Publishing House, 2011. - 376 p. - ISBN 978-5-93093-798-5 - Access mode: <http://www.studentlibrary.ru/book/ISBN9785930937985.html>

Internet sources

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- 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"

2. Databases and search engines:

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

The training toolkit and guidelines for a student to do an internship, keep an internship diary and write an internship report:*

1. Guidelines for internship, maintenance of current and preparation of reporting documentation for students in the direction 08.04.01 Construction.

*The training toolkit and guidelines for the internship are placed on the internship page in the university telecommunication training and information system under the set procedure.

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

The assessment toolkit and the grading system* to evaluate the level of competences (competences in part) formation as the internship results are specified in the Appendix to the internship syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

Associate Professor in the
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Technology and Structural
Materials

position, educational department

signature

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name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

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**HEAD OF
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