

Документ подписан простой электронной подписью
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**Federal State Autonomous Educational Institution of Higher Education
Peoples' Friendship University of Russia named after Patrice Lumumba
RUDN University**

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

INTERNSHIP SYLLABUS

Research Work

internship title

Industrial practice

internship type

Recommended by the Didactic Council for the Education Field of:

05.04.06 "Ecology and Nature Management

field of studies / speciality code and title

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

Integrated Solid Waste Management

higher education programme profile/specialisation title

1. INTERNSHIP GOAL(s)

The purpose of conducting “Research work” is: is to gain the competencies ensuring the ability to organize research work individually as well as to gain the undergraduate skills in the practical application of theoretical knowledge obtained during the training period. In addition, the Internship is designed to help students to collect and analyze the materials with their possible subsequent use in a master's thesis. A master’s student carries out research work under the supervisor guidance in the semester. The scientific research work direction of students is determined by the master's thesis topic.

2. REQUIREMENTS FOR LEARNING OUTCOMES

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

2) The internship is designed for students to acquire following competences (competences in part):

3) The internship intends to train and guide students to achieve/acquire the following competences (competences in part) development:

Table 2.1. List of competences that students acquire during the internship

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-1	Able to carry out a critical analysis of problem situations based on a systems approach and to develop a strategy for action.	GC-1.1 Knows how to solve problematic tasks and to identify their components and the relationships between them; GC-1.2 Able to search for possible solutions to a problematic task based on accessible and reliable sources of information; GC-1.3 Possesses a strategy for resolving a problem situation based on systemic and interdisciplinary approaches;
GC -2	Able to manage a project at all stages of its life cycle.	GC-2.1 Formulates a project task based on the identified problem and a method for its solution through the implementation of project management; GC-2.2 Develops a project concept within the framework of the identified problem (in the chosen professional field): formulates the goal, objectives, substantiates the relevance, significance (scientific, practical, methodological, or other depending on the type of project), expected results, and possible areas of their application; GC-2.3 Develops a project implementation plan using planning tools; develops and analyzes alternative project options to achieve the intended results; GC-2.4 Plans the necessary resources, including taking into account their substitutability
GC -3	Able to organize and lead the work of a team, developing a team strategy to achieve the set goal.	GC-3.1 Possesses the skills to monitor compliance with requirements. GC-3.2 Able to develop a team work plan for activities aimed at meeting environmental protection requirements, taking into account best practices;

Competence code	Competence descriptor	Competence formation indicators (within this course)
		GC-3.3 Able to delegate authority to team members and distribute tasks, provide feedback on results, and take responsibility for the overall outcome.
GC -4	Able to apply modern communication technologies in the state language of the Russian Federation and foreign language(s) for academic and professional interaction.	<p>GC-4.1 Knows the lexical, grammatical, stylistic, and sociocultural features of the scientific style in the state language of the Russian Federation, specifically the academic sub-style of the scientific style of natural sciences, in both Russian and the studied foreign language;</p> <p>GC-4.2 Possesses professional vocabulary in a foreign language; orthographic, orthoepic, lexical, grammatical, and stylistic norms of scientific speech; strategies for comprehending and producing oral and written scientific texts in the field of specialization;</p> <p>GC-4.3 Able to extract new information based on the analysis of foreign-language scientific literature and other sources; to select and systematize materials on a given/chosen topic and to compile annotations, abstracts, and reviews in a foreign language and in Russian; to produce written translations of scientific literature in the field of specialization from a foreign language into Russian;</p> <p>GC-4.4 Presents the results of research and project activities at various public events, participates in academic and professional discussions in Russian (and/or a foreign language);</p>
GC -5	Able to analyze and account for cultural diversity in the process of intercultural interaction.	<p>GC-5.1 Knows international practices of harmonizing the relationship between human society and nature in order to achieve sustainable development;</p> <p>GC-5.2 Knows and understands the characteristics of different cultures and nations;</p> <p>GC-5.3 Possesses the skills of building social interaction while taking into account the common and distinctive differences of cultures and religions;</p>
GC -6	Able to determine and implement priorities of one's own activities and ways to improve them based on self-assessment.	<p>GC-6.1 Able to analyze large arrays of professional content information;</p> <p>GC-6.2 Able to conduct analysis, synthesis, and optimization of solutions to assigned tasks;</p> <p>GC-6.3 Possesses the skills to build a flexible professional trajectory, taking into account accumulated professional experience, dynamically changing labor market requirements, and personal development strategy.</p>
GC -7	Able to use basic knowledge in the field of information culture.	<p>GC-7.1 Applies statistical methods in scientific and practical research; uses computer tools for data processing and problem solving;</p> <p>GC-7.2 Formulates a real data processing task in terms of the underlying real-world problem;</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
		GC-7.3 Knows the principles and techniques of modern corporate information culture and the fundamentals of the digital economy.
GPC-1	Able to use philosophical concepts and the methodology of scientific knowledge when studying various levels of organization of matter, space, and time.	<p>GPC -1.1 Knows the interrelationship of the intuitive, unconscious, and conscious in scientific creativity; the social and psychological motives of scientific creativity; the problems of moral evaluation of scientific creativity; bioethics; and the integrative tendencies of modern knowledge;</p> <p>GPC -1.2 Provides methodological justification for scientific research;</p> <p>GPC -1.3 Uses the principles and categories of philosophy to evaluate and analyze various social tendencies, facts, and phenomena associated with the contemporary development of natural science and technology;</p> <p>GPC -1.4 Possesses the skills of historical and methodological analysis of scientific research and its results; all forms of scientific communication; techniques of discussion and debate; skills of public speaking and written argumentative presentation of one's own point of view;</p>
GPC-2	Able to use specialized and emerging branches of ecology, geoecology, and natural resource management when solving research and applied tasks in professional activities	<p>GPC -2.1 Has a systematic understanding of the theoretical and methodological foundations of environmental regulation;</p> <p>GPC -2.2 Possesses modern methods for obtaining and assessing geochemical information to solve theoretical and practical problems of environmental geochemistry in the field of ecology and natural resource management for environmental protection purposes;</p> <p>GPC -2.3 Has basic knowledge of fundamental branches of biology to the extent necessary for mastering the fundamentals of ecology and natural resource management;</p> <p>GPC -2.4 Analyzes the current system of environmental regulation for various areas of natural resource management;</p> <p>GPC -2.5 Identifies and describes biological diversity, and provides assessments using modern methods of quantitative information processing;</p>
GPC-3	Able to apply ecological research methods to solve research and applied tasks in professional activities.	<p>GPC -3.1 Able to identify problems and tasks of scientific research in the field of urban geography and urban environmental problems, and possesses the skills to solve them;</p> <p>GPC -3.2 Possesses modern methods for assessing geoecological information to solve theoretical and practical problems of natural resource management.</p> <p>GPC -3.3 Possesses skills in forecasting meteorologic reactions, assessing the climatic potential of regions,</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p>and evaluating the objectivity of climate change scenarios;</p> <p>GPC -3.4 Uses modern databases, methods for obtaining and working with theoretical and empirical information, and GIS technologies;</p> <p>GPC -3.5 Navigates the current system of regulatory and legal frameworks governing engineering-ecological surveys and environmental impact assessments of urban agglomerations;</p>
GPC-4	Able to apply regulatory legal acts in the field of ecology and natural resource management, as well as norms of professional ethics.	<p>GPC-4.1 Models and predicts the behavior of natural and natural-technogenic ecosystems of varying degrees of complexity, and finds ways to optimize them;</p> <p>GPC-4.2 Knows international practices for the development, harmonization, and application of environmental standards;</p> <p>GPC-4.3 Possesses skills in analyzing the need for environmental protection measures based on the application of environmental standards, as well as skills in selecting and applying indicators for environmental impact assessment and forms of environmental control based on environmental standards;</p>
GPC-5	Able to solve professional tasks in the fields of ecology, natural resource management, and environmental protection using information and communication technologies, including geographic information systems (GIS).	<p>GPC -5.1 Knows the theoretical, methodological, and practical foundations of applying information technologies in environmental impact assessment;</p> <p>GPC -5.2 Possesses modern methods for assessing environmental information to solve theoretical and practical problems of environmental safety expertise in natural resource management, including GIS technologies;</p> <p>GPC -5.3 Able to select and apply algorithms for solving environmental problems, and to implement these algorithms using software tools;</p>
GPC-6	Able to design, present, defend, and disseminate the results of one's professional activities, including research activities.	<p>GPC -6.1 Able to use information resources, scientific, experimental, and instrumental facilities relevant to the subject of the conducted research;</p> <p>GPC -6.2 Able to formulate the results obtained in the course of solving research tasks;</p> <p>GPC -6.3 Able to identify scientific (scientific-technical) results that have practical significance</p>
PC-1	The ability to formulate problems, objectives, and methods of scientific research; to obtain new reliable facts based on observations, experiments, and scientific analysis of empirical data; to summarize scientific works;	<p>PC-1.1 Able to evaluate scientific (scientific-technical) results obtained in Russia and/or abroad in new and/or promising scientific directions;</p> <p>PC-1.2 Possesses the skills to assess key characteristics of scientific (scientific-technical) results in the form of reviews, expert opinions, and feedback.</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
	to compile analytical reviews of accumulated knowledge in global science and industrial activities; to generalize obtained results in the context of previously accumulated scientific knowledge; and to formulate conclusions and practical recommendations based on representative and original research results.	
PC -2	The ability to creatively apply knowledge of fundamental and applied sections of special disciplines within the Master's program in scientific and production-technological activities.	PC-2.1 Able to study the natural, technogenic, socio-economic, demographic, and medico-biological situation, and to search for cultural heritage objects within the studied territory; PC-2.2 Able to predict possible adverse changes in the natural and technogenic environment, and to conduct a preliminary analysis of the consequences of information obtained during research; PC-2.3 Possesses skills in performing environmental analyses of objects based on chemical, microbiological, parasitological, and toxicological indicators; PC-2.4 Able to collect and analyze environmental information about the natural and technogenic environment, as well as physiographic and climatic conditions, based on materials from previous years' work.
PC-3	Possession of the fundamentals of design, expert-analytical activities, and performance of research using modern approaches and methods, equipment, and computing systems.	PC-3.1 Able to identify indicators that may have a negative impact on the environment; PC-3.2 Able to formulate recommendations and proposals for preventing and reducing adverse consequences; PC-3.3 Able to analyze environmental monitoring data and draw preliminary conclusions about the state of the object and the surrounding environment;
PC-4	The ability to use modern methods of processing and interpreting environmental information when conducting scientific and industrial research.	PC-4.1 Know the role and limitations of applying statistical methods in scientific and practical research; PC-4.2 Know the computer tools for processing statistical data and solving statistical problems; PC-4.3 Be able to formulate a real data processing problem in terms of mathematical statistics, and to select statistical data processing methods for solving real-world problems;
PC-5	The ability to develop standard environmental protection measures and to conduct an environmental	PC-5.1 Able to conduct an environmental impact assessment of a planned enterprise and facilities, to predict and evaluate negative consequences;

Competence code	Competence descriptor	Competence formation indicators (within this course)
	impact assessment of planned structures or other forms of economic activity.	PC-5.2 Able to develop standard environmental protection measures; PC-5.3 Possesses skills in environmental design and the preparation of special documentation at the pre-project stage of the project life cycle.
PC-6	The ability to diagnose problems of nature protection, to develop practical recommendations for its conservation and for ensuring sustainable development.	PC-6.1 Able to perform the necessary calculations for planning, modeling, and forecasting the development of a territorial object; PC-6.2 Able to conduct analysis and assessment of available resources and conditions necessary for the implementation of research; PC-6.3 Able to carry out spatial, territorial, demographic, sociological, and economic studies, as well as topographical-geodetic, engineering-geological, and cartographic surveys.
PC-8	Possesses the skills of preparing thematic maps and plans, as well as analytical information based on engineering-ecological surveys	PC-8.1 Possesses the skills of preparing thematic maps and plans, as well as analytical information based on engineering-ecological surveys; PC-8.2 Able to collect, analyze, and synthesize materials on the cartographic coverage of a territory, hydrometeorological observations, and surveys from previous years; data on the presence and nature of hazardous processes and phenomena; cartographic materials, aerial photography, space and topographic survey materials; navigation charts and other data; PC-8.3 Able to apply modern information technologies and specialized software for processing and analyzing the obtained data;
PC-9	Able to conduct a field survey of an object, its parts, foundation, or surrounding environment, and possesses skills in office processing and formalization of research results.	PC-9.1 Possesses skills in sampling water, soil, air, and biological objects to assess their ecological status; PC-9.2 Able to perform laboratory research, measurements, and analyses of collected natural samples; PC-9.3 Able to perform statistical analysis of obtained data on the state of the natural environment.
PC-10.	Able to conduct environmental monitoring using environmental protection technologies.	PC-10.1 Able to monitor compliance with requirements in the field of environmental protection; PC-10.2 Able to develop a plan of measures aimed at fulfilling the requirements of regulatory legal acts in the field of environmental protection, taking into account best practices; PC-10.3 Able to analyze large arrays of professional content information;
PC-11.	Able to determine the structure and possesses methods for zoning the assessed territory by types of anthropogenic load and environmental components	PC-11.1 Possesses methods for zoning the assessed territory by permissible anthropogenic load on environmental components; PC-11.2 Able to determine the structure of anthropogenic load on environmental components;

Competence code	Competence descriptor	Competence formation indicators (within this course)
		PC-11.3 Able to identify areas of increased environmental hazard;
PC-12	Able to use modern Geographic Information System tools and information and communication technologies in professional activities	PC-12.1 Able to apply modern information technologies and specialized software for processing and analyzing the obtained data; PC-12.2 Able to use modern Geographic Information System tools and information and communication technologies in professional activities;
PC-13	Able to carry out spatial, territorial, demographic, sociological, and economic studies, as well as engineering-geological and cartographic surveys	PC-13.1 Able to conduct analysis and assessment of available resources and conditions necessary for the implementation of research; PC-13.2 Able to assess the extent of damage and degradation of the natural environment; PC-13.3 Possesses methods for developing models of environmental situation development under various anthropogenic loads.

3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

The internship refers to the core/variable/elective* component of (B2) block of the higher educational programme curriculum.

* Underline whatever applicable. The core component includes all introductory field internships, the variable component includes all advanced field internships, except for research and pre-graduate types of the internship. The elective module includes all research and pre-graduation types of the internship (if any).

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-1	Able to carry out a critical analysis of problem situations based on a systems approach and to develop a strategy for action.	Methodology of Scientific Creation; Research Work;	Environmental control and MSW monitoring programs**; Physicochemical methods of waste testing**; Research Work; Work Experience Internship; Pre-Graduation Practice
GC -2	Able to manage a project at all stages of its life cycle.	Research Work;	Modern remediation technologies; Research Work; Work Experience Internship;

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
			Pre-Graduation Practice;
GC -3	Able to organize and lead the work of a team, developing a team strategy to achieve the set goal.	International cooperation in the field of nature protection; Research Work	Research Work; Work Experience Internship; Pre-Graduation Practice;
GC -4	Able to apply modern communication technologies in the state language of the Russian Federation and foreign language(s) for academic and professional interaction.	Foreign language (optional); Foreign (Russian) language**; Foreign (Russian) language**; Russian Language for Foreign Students; Foreign Language in Professional Practice**; Research Work;	Foreign language (optional); Russian Language for Foreign Students; Foreign Language in Professional Practice**; Research Work; Work Experience Internship; Pre-Graduation Practice;
GC -5	Able to analyze and account for cultural diversity in the process of intercultural interaction.	International cooperation in the field of nature protection; Philosophical problems of natural sciences; Research Work;	Research Work; Work Experience Internship; Pre-Graduation Practice;
GC -6	Able to determine and implement priorities of one's own activities and ways to improve them based on self-assessment.	Philosophical problems of natural sciences; Research Work;	Management of environmental-economic risks; Environmental control and MSW monitoring programs**; Physicochemical methods of waste testing**; Research Work; Work Experience Internship; Pre-Graduation Practice;
GC -7	Able to use basic knowledge in the field of information culture.	IT in Ecology and Natural Resources Management; Research Work;	Research Work; Work Experience Internship; Pre-Graduation Practice;
GPC-1	Able to use philosophical concepts and the methodology of scientific knowledge when studying various levels of organization of matter, space, and time.	Philosophical problems of natural sciences; Methodology of Scientific Creation; Research Work;	MSW Recycling and Utilization Technics; Research Work; Work Experience Internship; Pre-Graduation Practice;
GPC-2	Able to use specialized and emerging branches of ecology, geoecology, and natural resource management when	Research Work;	MSW Recycling and Utilization Technics; Research Work; Work Experience Internship; Pre-Graduation Practice;

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
	solving research and applied tasks in professional activities		
GPC-3	Able to apply ecological research methods to solve research and applied tasks in professional activities.	Environmental Impact Assessment (EIA) of SWM objects; Research Work;	Environmental norms for sustainability; Research Work; Work Experience Internship; Pre-Graduation Practice;
GPC-4	Able to apply regulatory legal acts in the field of ecology and natural resource management, as well as norms of professional ethics.	Research Work;	Research Work; Work Experience Internship; Pre-Graduation Practice;
GPC-5	Able to solve professional tasks in the fields of ecology, natural resource management, and environmental protection using information and communication technologies, including geographic information systems (GIS).	IT in Ecology and Natural Resources Management; Research Work;	Research Work; Work Experience Internship; Pre-Graduation Practice;
PC-1	The ability to formulate problems, objectives, and methods of scientific research; to obtain new reliable facts based on observations, experiments, and scientific analysis of empirical data; to summarize scientific works; to compile analytical reviews of accumulated knowledge in global science and industrial activities; to generalize obtained results in the context of previously accumulated scientific knowledge; and to	International cooperation in the field of nature protection; Research Work;	Research Work; Pre-Graduation Practice;

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
	formulate conclusions and practical recommendations based on representative and original research results.		
PC -2	The ability to creatively apply knowledge of fundamental and applied sections of special disciplines within the Master's program in scientific and production-technological activities.	Environmental Impact Assessment (EIA) of SWM objects; Research Work;	MSW Recycling and Utilization Technics; Modern remediation technologies; Research Work; Work Experience Internship; Pre-Graduation Practice;
PC-3	Possession of the fundamentals of design, expert-analytical activities, and performance of research using modern approaches and methods, equipment, and computing systems.	Research Work;	Management of environmental-economic risks; Environmental noms for sustainability; Research Work; Work Experience Internship; Pre-Graduation Practice;
PC-4	The ability to use modern methods of processing and interpreting environmental information when conducting scientific and industrial research.	IT in Ecology and Natural Resources Management; Research Work;	Modern remediation technologies; Research Work; Pre-Graduation Practice;
PC-5	The ability to develop standard environmental protection measures and to conduct an environmental impact assessment of planned structures or other forms of economic activity.	Research Work; Mapping and GIS-technologies in MSW Management**; Remote Sensing of MSW objects**;	Research Work; Work Experience Internship; Pre-Graduation Practice;
PC-6	The ability to diagnose problems of nature protection, to develop practical recommendations for its conservation and for ensuring sustainable development.	Research Work;	Research Work; Environmental noms for sustainability; Pre-Graduation Practice;

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-8	Possesses the skills of preparing thematic maps and plans, as well as analytical information based on engineering-ecological surveys	Research Work; Mapping and GIS-technologies in MSW Management**; Remote Sensing of MSW objects**;	Research Work; Pre-Graduation Practice;
PC-9	Able to conduct a field survey of an object, its parts, foundation, or surrounding environment, and possesses skills in office processing and formalization of research results.	Research Work;	Research Work; Pre-Graduation Practice;
PC-10.	Able to conduct environmental monitoring using environmental protection technologies.	Research Work; Environmental Impact Assessment (EIA) of SWM objects;	Research Work; Pre-Graduation Practice; Engineering ecology**; Monitoring of environmental impacts**;
PC-11.	Able to determine the structure and possesses methods for zoning the assessed territory by types of anthropogenic load and environmental components	Research Work;	Research Work; Pre-Graduation Practice; Engineering ecology**; Monitoring of environmental impacts**;
PC-12	Able to use modern Geographic Information System tools and information and communication technologies in professional activities	Research Work; Mapping and GIS-technologies in MSW Management**; Remote Sensing of MSW objects**;	Research Work; Pre-Graduation Practice;
PC-13	Able to carry out spatial, territorial, demographic, sociological, and economic studies, as well as engineering-geological and cartographic surveys	Research Work;	Research Work; Pre-Graduation Practice; Environmental control and MSW monitoring programs**; Physicochemical methods of waste testing**;

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

4. INTERNSHIP WORKLOAD

Possible wording

1)The total workload of the internship is 15 credits (540 academic hours).

5. INTERNSHIP CONTENTS

Table 5.1. Internship contents*

Modules	Contents (topics, types of practical activities)	Workload, academic hours
Module 1. Organizational and preparatory part	1.1 Receiving an assignment for an internship from a manager, receiving advice on internships	2
	1.2 Instruction on labor protection and fire safety	2
	1.3 Research methodology choice	30
Module 2. Main part	2.1 Literature review on the research topic using national and foreign literature	210
	2.2 Research organization and conduction highlighting the problem, collecting the empirical data and its subsequent interpretation	108
	2.3 Preparing a scientific article on research problem	80
	2.4 Report presentation on the implemented research at the scientific event (conference/forum/scientific seminar)	80
Writing an internship report		9
Preparing for defence and defending the internship report		9
TOTAL:		540

* 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: laboratories/ specially equipped classrooms/ polygons/ measuring and computing complexes/ vehicles/ industrial equipment and devices/ household premises that comply with current sanitary and fire safety standards.

The SAFETY REQUIREMENTS at the enterprise, workplace (including the department of RUDN University) and during the work with certain production/laboratory equipment incorporate/ include the following (to be specified)....

7. INTERNSHIP LOCATION AND TIMELINE

The internship can be carried out at the structural divisions of RUDN University (at Moscow-based organisations, as well as those located outside Moscow.

The internship at an external organisation (outside RUDN University) is legally arranged on the grounds of an appropriate agreement, which specifies the terms, place and conditions for an internship implementation at the organisation.

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 Kharlamova MD, Kurbatova AI Modern Technologies of Waste Management, Recycling and Environmental Protection / Modern methods of waste management, recycling and environmental protection- M. : RUDN University, 2017 - 98 p. : ill.1. Study guide in English. language 2 Electronic text data Text/electronic resource ISBN 978-5-209-07889-0: 120.68.

Additional readings:

1 Evans Virginia., Evans, J. Dooley, K. Rodgers. Environmental Engineering Book 1, 2, 3/ V . Newbery : Express Publishing , 2013 - 38, 40, 41 p Textbook in English 1 ISBN 978-1-4715-1611-5: 1365.10.

2 Golinska Paulina. : P. Golinska , M. Fertsch . Information Technologies in Environmental Engineering2011. Environmental Science and Engineering, ISSN 1863-5520 Monograph, ISBN 978-3-642-19535-8. Electronic text data <http://www.springerlink.com/openurl.asp?genre=book&isbn=978-3-642-19535-8>

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/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>
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The training toolkit and guidelines for a student to do an internship, keep an internship diary and write an internship report:*

1. Safety regulations to do the internship (safety awareness briefing).
2. Machinery and principles of operation of technological production equipment used by students during their internship; process flow charts, regulations, etc. (if necessary).
3. Guidelines for keeping an internship diary and writing an internship report.

*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.

DEVELOPER:

Associate Professor of the NM
Department

Kapralova D.O.

Position

Signature

Name, Surname

HEAD OF DEPARTMENT:

Director of ES&PQM Department
department

Savenkova E.V.

Position

Signature

Name, Surname

HEAD OF PROGRAMME:

Associate Professor of the
NM Department

Kapralova D.O.

Position

Signature

Name, Surname