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Документ подписан простой электронной подписью	
Информация о владельце: ФИО: Ястребов Олег Александрович	
Должность: Ректор Federal State Auto	nomous Educational Institution for Higher Education
Дата подписания <b>Р2©03Р0<u>1</u>4ES</b> 13 <b>14RTENDS</b> H	IP UNIVERSITY OF RUSSIA (RUDN University) named
уникальный программный клю <b>äfter Patrice L</b> ca953a0120d891083f939673078ef1a989dae18a	umumba Institute of Environmental Engineering
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	INTERNSHIP SYLLABUS
	THERISHI STEERES
	RESEARCH WORK (R&D)
	internship title
	educational
-	internship type
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Recommended by the Didac	tic Council for the Education Field for the specialization:
05 04	06 "Ecology and Nature Management"
03.04.	oo boology and readic management

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

«Integrated Solid Waste Management»

### 1. INTERNSHIP GOAL(s)

The goal of the Internship "Research Work (R&D)" 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

Conducting the "Research Work (R&D)" is aimed at developing the following competencies in students:

Table 2.1. The list of competencies formed in students during internship (learning outcomes based on the results of internship)

Code and descriptor of generic competence	Code and competence level indicator
GC-1. Able to carry out a problem situations critical analysis based on a systematic approach, to develop an action strategy.	GC-1.1 can analyze the problem situation as a system, identifying its components and the links between them GC-1.2 owns argumentation and develops a meaningful strategy for solving a problem situation based on a systematic and interdisciplinary approach GC-1.3 knows the basics strategies and identifies possible risks, suggesting ways to eliminate them
GC-2. Able to manage a project at all stages of its life cycle.	
GC-3. Able to organize and manage the team work, developing a team strategy to achieve the goal.	GC -3.1 owns the techniques and methods of teamwork, organizes the selection of team members to achieve the goal; GC -3.2 capable to organize and adjust the work of the team, including on the basis of collegial decisions GC-3.3 can delegate authority to team members and distribute assignments, give feedback on the results, take responsibility for the overall result
GC-4. Able to apply modern communication technologies,	GC -4.1 can establish contacts and organize communication in accordance with the needs of joint activities, using modern communication technologies

-	Russian languages	
	GC-4.3 capable to organize a results discussion and present the results of research and project activities at various public events in Russian or a foreign language, choosing the most appropriate format.	
GC-5. Able to analyze and take into account the diversity of cultures in the intercultural interaction process.	GC -5.1. knows the main categories of philosophy, the laws of historical development, the intercultural communication basics	
	GC-5.2 is able to communicate in the world cultural diversity and demonstrate mutual understanding between students - representatives of different cultures in compliance with ethical and intercultural standards	
	GC -5.3. owns the practical skills of philosophical and historical facts analyzing, evaluating cultural phenomena; ways of analyzing and revising one's views in case of disagreements and conflicts in intercultural communication	
GC-6. Able to identify and implement	GC-6.1 can evaluate resources and their limits	
the priorities of their own activities	(personal, situational, temporary), use them	
and ways to improve it based on	appropriately	
selfesteem.	GC-6.2 capable to determine educational needs and	
	ways to improve their own (including professional) activities based on self-assessment	
	GC -6.3 owns skills building a flexible professional trajectory, taking into account the accumulated experience of professional activity, dynamically changing labor market requirements and personal development strategies	
GC-7. Able to use digital	GC-7.1 owns the skills of digital technologies use	
technologies and methods of	and search methods	
searching, processing, analyzing, storing and presenting information (in	GC-7.2 can process, analyze, store and correctly	
the field of Ecology and nature	present information  GC-7.3 knows the principles and techniques of	
management) in the digital economy	modern corporate information culture and the digital	
and modern corporate information	economy basics	
culture.	111111111111111111111111111111111111111	
Code and descriptor of general	Code and competence level indicator	
professional competence	•	
GPC-1. Able to use philosophical	GPC-1.1 Knows the philosophical concepts of natura	
concepts and methodology of	science and methodology of scientific creation	
scientific creation in the study of	1	
various levels of matter, space and		
time organization.	the professional activities consequences	

including foreign language(s) for GC-4.2 knows the basics of business documentation

and uses professional vocabulary in foreign and

academic and professional interaction

	<b>GPC-1.3</b> Able to apply the acquired knowledge in the research activities, to make correct generalizations and	
	conclusions	
GPC-2. Able to use special and new sections of ecology, geoecology and nature management in solving	GPC-2.1 Knows the basics of ecology, geoecology, environmental economics and circular economy, as well as environmental management	
research and applied problems of professional activity.	GPC-2.2 Able to use environmental, economic and other special knowledge and algorithms to solve professional problems	
	GPC-2.3 Capable of finding, analyzing and competently using latest information and modern techniques in the research and applied tasks performance	
GPC-3. Able to apply environmental research methods to solve research and applied problems of professional	GPC-3.1 Knows the principles and methods of environmental monitoring related with different environmental components	
activity.	<b>GPC-3.2</b> Owns analytical methods of pollutants control, physical impacts and processing of the received information	
	GPC-3.3 Able to develop environmental monitoring and control systems in production and solve applied problems in professional activities	
<b>GPC-4.</b> Able to apply regulatory legal acts and norms of professional ethics	<b>GPC-4.1</b> Knows the environmental regulation and legislation basics in the field of nature management	
in the field of ecology and nature management.	<b>GPC-4.2</b> Knows how to use and apply regulatory legal acts in the field of ecology and nature management	
	<b>GPC-4.3</b> Able to use the professional ethics norms in their professional activities	
GPC-5. Able to solve the problems of professional activity in the field of ecology, nature management and	GPC-5.1 Knows how to choose and apply algorithm for solving environmental problems and implements algorithms using software	
protection using information and communication, including geoinformation technologies.	<b>GPC-5.2</b> Has the skills to use information technology tools for searching, storing, processing, analyzing and presenting information	
	GPC-5.3 Able to process earth remote sensing data and use cartographic materials, owns modern GIS technologies	
<b>GPC-6.</b> Able to design, represent, protect and disseminate the results of their professional activities, including research.	necessary scientific information using modern research	
	GPC-6.2 Possesses the skills of oral report and presentation with regards to the project and scientific activities results	
	GPC-6.3 Knows methodological foundations of scientific research, copyright and scientific ethics requirements	

Code and descriptor of professional	
competence	Code and competence level indicator
PC-1 Able to organize and manage the enterprise activities using in-depth knowledge in the field of environmental management	PC-1.1 Knows the basics and principles of production management, the legal framework for effective environmental management, including production and consumption waste management  PC-1.2 Able to organize the management of research, scientific and production and expert-
PC-2 Able to develop and economically justify plans for the introduction of new equipment and technologies to ensure minimal waste impact on the environment	analytical work at the enterprise  PC-2.1 Has the skills to select and implement the best available technologies (BAT) for the processing and recycling of production and consumption waste  PC-2.2 Can economically justify plans for the introduction of new equipment and technologies for waste management, using them as a secondary
	resource  PC-2.3 Capable of minimizing the waste impact on the environment
PC-3 Able to develop measures for the economic regulation of the organization's environmental activities	PC-3.1 Able to predict socio-economic development based on environmental forecasts  PC-3.2 Knows how to determine the economic
	effect of the measures application aimed at ensuring the enterprise environmental safety
PC-4 Capable of assessing the impact of economic activity on the environment	<b>PC-4.1</b> Able to conduct an environmental impact assessment (EIA) of the designed enterprise and facilities, predict and evaluate negative consequences
	PC-4.2 Able to develop standard environmental measures  PC-4.3 Possesses the skills of environmental design and preparation with regards to special documentation at the pre-project stage of the project
PC-5 Able to analyze the causes and minimize the consequences of the production negative impact on the	life cycle  PC-5.1 Able to identify the causes and sources of harmful substances entering the environment and the causes and sources of solid waste generation
environment	PC-5.2 Has the skills to prepare proposals to eliminate the causes and eliminate the negative consequences of the impact  PC-5.3 Ensures the plans implementation for environmental protection measures and the
	elimination of accumulated environmental damage objects to the environment, including the existing waste disposal sites reclamation, lands after the elimination of unauthorized dumps, etc.

PC-9 Able to contraste activities for the organization and control in the field of production and consumption waste management  PC-8 Possesses the skills of preparing thematic maps and plans, analytical information on engineering and environmental surveys  PC-8.1 Possesses the skills of preparing thematic maps and plans, analytical information on engineering and environmental surveys  PC-8.2 Able to collect, analyze and summarize materials from cartographic studies of the territory, hydrometeorological observations, surveys of past years; information about the presence and nature of manifestation of hazardous processes and phenomena; cartographic material, materials from aerial photography and space topographic surveys; navigation maps, etc.  PC-9.3 Able to use modern information technologies and specialized programs to process the received data and carry out their analysis of selected natural samples.  PC-9.1 Possesses the skills of sampling water, soil, air and biological objects to assess their environmental condition.  PC-9.1 Possesses the skills of preparing thematic maps and plans, analytical information on engineering and environmental surveys.  PC-8.1 Possesses the skills of preparing thematic maps and plans, analytical information on engineering and environmental surveys.  PC-8.2 Able to collect, analyze and summarize materials from cartographic sudies of the territory, hydrometeorological observations, surveys of past years; information about the presence and nature of manifestation of hazardous processes and phenomena; cartographic sudies of the territory, hydrometeorological observations, surveys of past years; information  PC-9.1 Able to use modern information  PC-9.2 Able to collect, analyze and summarize of analyze of preduction from and phenomena; cartographic material, materials from cartographic sudies of the territory, hydrometeorological objects to assess their examination of an object, its part.  PC-9.1 Possesses the skills of preparing thematic maps and plans, analyze in formation on engin		DO 64 G 11 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
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technologies in professional activities	information and communication			
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PC-13 Capable of conducting spatial, territorial, demographic, sociological, economic research, engineering-geological,	<b>PC-13.1</b> Able to analyze and evaluate available resources and conditions necessary for the implementation of research	
cartographic surveys	PC-13.2 Capable of assessing the extent of damage	
	and degradation of the natural environment	
	PC-13.3 Knows methods of developing models for	
	the development of the environmental situation	
	under various anthropogenic loads	

#### 3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

"Research Work (R&D)" refers to the <u>mandatory part of the higher educational</u> programme curriculum.

Within the 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*
	Able to carry out a critical analysis of	Methodology of Scientific Creation Modern Technologies for Nature	Research work on thesis
GC-1	problem situations based on a systematic approach, develop an action	Protectio Environmental Contr ol and MSW Monitoring Programs Physicochemical Methods of Waste	Internship Pre-Graduation Practical Training Preparing and Passing the
	strategy	Testing	State ExamDegree Diploma
GC-2	Able to manage a project at all stages of its life cycle	Environmental impact assessment (EIA) of SWM objects	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma

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GC-3	Able to organize and manage the work of the team, developing a team strategy to achieve the goal	International Cooperation in the Field of Nature Protection Regional & Municipal MSW Management Systems Nature Protection and Accumulated Environmental Damage (AED) Elimination Tools	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
GC-4	Able to apply modern communication technologies, including in foreign language(s), for academic and professional interaction	Foreign (Russian) Language	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
GC-5	Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	Foreign (Russian) Language	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
GC-6	Able to determine and implement the priorities of their own activities and ways to improve it based on selfassessment	Methodology of Scientific Creation Management of Environmental- economic Risks Software Tools for Waste Management Environmental Control and MSW Monitoring Programs Physicochemical Methods of Waste Testing	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
GC-7	Able to use basic knowledge in the field of information culture	IT i Remote Sensing of MSW Objects n Ecology and Natural Resources Management Mapping And GIS- technologies in MSW Management	
SPC-1	Able to use philosophical concepts and methodology of scientific knowledge in the study of various levels of organization of matter, space and time	Methodology of Scientific Creation MSW Recycling and Utilization Technics	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma

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		Modern Technologies for Nature	Research work on
		Protection	thesis
	Able to use special	ОВОС объектов в сфере	Internship
	and new sections of	управления отходами	Pre-Graduation Practical
	ecology, geoecology	Regional & Municipal MSW	Training
SPC-2	and nature	Management Systems	Preparing and Passing the
	management in	MSW Recycling and Utilization	State ExamDegree
	solving research and	Technics	Diploma
	applied problems of	Basics of Circular Economics	
	professional activity	Green Economy and Tools for	
		Enterprises Sustainable Development	
		Engineering Ecology	
		Environmental impact assessment	Research work on
	Able to apply	(EIA) of SWM objects	thesis
	environmental	Environmental Control and MSW	Internship
	research methods to	Monitoring Programs	Pre-Graduation Practical
SPC-3	solve research and	Physicochemical Methods of Waste	Training
	applied problems of	Testing	Preparing and Passing the
	professional activity	Mapping And GIS-technologies in	State ExamDegree
	professional activity	MSW Management	Diploma
		Remote Sensing of MSW Object	
		Modern Technologies for Nature	Research work on
	Able to apply	Protection	thesis
	regulatory legal acts	Nature Protection and Accumulated	Internship
	in the field of	Environmental Damage (AED)	Pre-Graduation Practical
SPC-4	ecology and nature	Elimination Tools	Training
	management, norms	Environmental Control and MSW	Preparing and Passing the
	of professional	Monitoring Programs	State ExamDegree
	ethics	Physicochemical Methods of Waste	Diploma
		Testing	
		IT in Ecology and Natural Resources	Research work on
		Management Management	thesis
		Regional & Municipal MSW	Internship
	Able to solve the	Management Systems	Pre-Graduation Practical
	problems of	Software Tools for Waste	Training
	professional activity	Management	Preparing and Passing the
	in the field of	Mapping And GIS-technologies in	State ExamDegree
	ecology, nature	MSW Management	Diploma
	management and	Remote Sensing of MSW Objects	
SPC-5	nature protection		
	using information		
	and communication,		
	including		
	geoinformation		
	technologies		
	Comologies		

SPC-6	Able to design, represent, protect and disseminate the results of their professional activities, including research	Methodology of Scientific Creation Management of Environmental- economic Risks	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-1	Able to formulate problems, tasks and methods of scientific research, obtain new reliable facts based on observations, experiments, scientific analysis of empirical data, summarize scientific works, compile analytical reviews of accumulated information in	International Cooperation in the Field of Nature Protection Modern Technologies for Nature Protection Nature Protection and Accumulated Environmental Damage (AED) Elimination Tools	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
	world science and production activities, generalize the results obtained in the context of previously accumulated in science knowledge and formulate conclusions and practical recommendations based on representative and original research results		Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-2	the ability to creatively use in scientific and industrial and technological activities the knowledge of fundamental and applied sections of special disciplines of the master's program	Environmental impact assessment (EIA) of SWM objects MSW Recycling and Utilization Technics	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma

PC-3	possession of the basics of design, expert-analytical activities and research using modern approaches and methods, equipment and computer systems	Regional & Municipal MSW Management Systems Management of Environmental- economic Risks	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-4	the ability to use modern methods of processing and interpreting environmental information in scientific and industrial research	IT in Ecology and Natural Resources Management	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-5	the ability to develop standard environmental measures and assess the impact of planned structures or other forms of economic activity on the environment	Environmental impact assessment (EIA) of SWM objects Management of Environmental- economic Risks Mapping And GIS-technologies in MSW Management Remote Sensing of MSW Objects	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-6	the ability to diagnose problems of nature conservation, develop practical recommendations for its protection and sustainable development	Regional & Municipal MSW Management Systems Nature Protection and Accumulated Environmental Damage (AED) Elimination Tools Basics of Circular Economics Green Economy and Tools for Enterprises Sustainable Development	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-8	Possesses the skills of preparing thematic maps and plans, analytical information on engineering and environmental surveys	no	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma

PC-9	Able to carry out a full-scale examination of an object, its parts, foundation or environment and has the skills of desk processing and formalization of research results	no	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-10	Capable of monitoring the state of the environment using environmental technologies	Environmental impact assessment (EIA) of SWM objects Engineering Ecology Monitoring of Environmental Impacts	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-11	Able to determine the structure and master the methods of zoning the assessed territory according to the types of anthropogenic load and environmental components	Engineering Ecology Monitoring of Environmental Impacts	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-12	Able to use modern means of geographic information systems and information and communication technologies in professional activities	Software Tools for Waste Management Mapping And GIS-technologies in MSW Management Remote Sensing of MSW Objects	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
PC-13	Capable of conducting spatial, territorial, demographic, sociological, economic research, engineering-geological, cartographic surveys	no	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma

## 4. INTERNSHIP WORKLOAD

The total workload of the internship is 21 credit units (756 academic hours).

## **5. INTERNSHIP CONTENTS**

Table 5.1. Internship contents\*

Modules	Contents (topics, types of practical activities)	Workload, academic hours
Module 1.	Receiving an assignment for an internship from a manager, receiving advice on internships	2
Organizational and	Instruction on labor protection and fire safety	2
preparatory part	Research methodology choice	30
	Drawing up a work schedule on the study	10
	Literature review on the research topic using foreign literature	210
Module 2. Main part	Research organization and conduction highlighting the problem, collecting the empirical data and its subsequent interpretation	300
	Preparing a scientific article on research problem	192
	Report presentation on the implemented research at the scientific event (conference/forum/scientific seminar)	100
Internship Report Prepara	9	
Preparation for Defense /	9	
	TOTAL:	864

# 6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

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

Audience equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)	
An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations.	A set of specialized furniture; chalkboard; hardware: HP PRO system unit, HP-V2072A monitor,	
An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations.	LUMIEN retractable projection screen, Internet access. Microsoft Windows 7 corporate. License No. 5190227, date of issue March 16, 2010	
Audience equipment	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)	
	MS Office 2007 Prof , License # 6842818, date of issue 09/07/2009	

An auditorium for independent work of students, equipped with a set of specialized furniture and computers with access to the EIOS.

#### 7. INTERNSHIP LOCATION AND TIMELINE

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

The internship at an external organization (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 organization.

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 reading:

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 reading:

- 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" <a href="http://e.lanbook.com/">http://e.lanbook.com/</a> EL "Trinity Bridge"

#### 2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation

#### http://docs.cntd.ru/

- Yandex search engine <a href="https://www.yandex.ru/">https://www.yandex.ru/</a>
- Google search engine <a href="https://www.google.ru/">https://www.google.ru/</a>
- Scopus abstract database <a href="http://www.elsevierscience.ru/products/scopus/">http://www.elsevierscience.ru/products/scopus/</a>

Scientific full-text databases. The collection of electronic resources UNIBTS (NB) contains:

- universal databases of world famous publishers and suppliers of electronic information for all scientific areas: Cambridge Journals, Oxford Journals, JSTOR, ScienceDirect Freedom \_ Collection, PROQUEST DISSERTATIONS AND THESES GLOBAL, Springer Journals, Taylor & Francis Online, Wiley Online Library, etc.
- specialized databases for specific areas of knowledge: CASC, IEL IEEE, INSPEC, Reaxys / RMC, IOPSCIENCE, MathSciNET, Pathway Studio, Royal Society of Chemistry, Nature, Science online, zbMATH, scientific protocols and scientific materials in physical sciences and engineering Springer Protocols and Springer Materials, Questel patents Orbit, etc.
- full text open access databases rigorously rated by professional experts: ScienceDirect Open, Oxford Open, Palgrave Open, De Gruyter Online Open, Sage Open, Springer Open, Taylor & Francis Online
- archives scientific articles Western Publishers: AGU (Wiley), Annual Reviews, Cambridge University Press, IOP Publishing, Oxford University Press, Nature Publishing Group, Royal Society of Chemistry, SAGE Publications, Taylor and Francis, The American Association for the Advancement of Science
- Mendeley is an international scientific social network that allows you to find likeminded scientists, create scientific associations and study trends in modern research, combine information on the user's personal computer, forming your own collection of full-text scientific papers for distribution and citation, provides an opportunity for communication, facilitates establishing contacts with colleagues who deal with similar topics. Mendeley users are scientists from universities around the world: Stanford, Harvard, Oxford, Michigan, Cambridge, etc.

Scientometric databases are recommended to be used when choosing a research topic and for the primary selection of information. Bibliographic and abstract scientometric databases contain tools for tracking the citation of articles published in scientific journals. The citation level of a scientific article is an indicator of relevance, significance and interest in this topic. The journals presented in the database serve as a guide when choosing publications for their own scientific publications.

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.

## 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.

**DEVELOPER:** 

Position

Associate Professor of the ES&PQM Department	Popkova A.V.	
Position, BUP	Signature	Name, Surname
HEAD OF EDUCATIONAL DEI	PARTMENT:	
Director of ES&PQM Department	Savenkova E.V.	
Position	Signature	Name, Surname
HEAD OF HIGHER EDUCATION PROGRA	AMME:	
Associate Professor of the EM Department	Kapralova D.O.	

Signature

Name, Surname