Документ подписан простой электронной подписью Информация о владельце deral State Autonomous Educational Institution for Higher Education ФИО: Ястребов Оле PAGO Параба FRIENDS HIP UNIVERSITY OF RUSSIA (RUDN University)

Должность: Ректор Дата подписания: 29.08.2024 16:13:48 named after Patrice Lumumba
Institute of Environmental Engineering

Уникальный программный ключ:

ca953a0120d891083f939673078ef1a989dae18a

la de la companya de

INTERNSHIP SYLLABUS

Pre-graduate internship

internship

title

educational

internship type

Recommended by the Didactic Council for the Education Field of:

05.04.06 "Ecology and Nature Management"

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

«Integrated Solid Waste Management»

1. INTERNSHIP GOAL(s)

The Internship aims at expansion of professional knowledge acquired by masters in the study process, the formation of practical skills and abilities to conduct independent research work, practical participation in the research work of scientific teams, as well as the collection, analysis and generalization of scientific material, the development of original scientific ideas for the of a master's thesis preparation Pre-graduate internship is carried out to perform the final qualifying work and it is mandatory.

2. REQUIREMENTS FOR LEARNING OUTCOMES

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

Table 2.1. List of competences that students acquire during the 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	GC-1.1 can analyze the problem situation as a system, identifying its components and the links between them
systematic approach, to develop an action strategy.	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-2.1 can formulate a project task based on the problem posed and a way to solve it
	GC-2.2 capable to develop the concept of the project, formulate the goal, objectives, justify the relevance, expected results and scope of their application
	GC-2.3 can develop a project implementation plan taking into account possible risks, plans the necessary resources
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, including	GC -4.1 can establish contacts and organize communication in accordance with the needs of joint activities, using modern communication technologies

	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	GC -5.1. knows the main categories of philosophy, the
account the diversity of cultures in the	laws of historical development, the intercultural
intercultural interaction process.	communication basics
more unitarial more union process.	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 (personal,
the priorities of their own activities and	situational, temporary), use them
ways to improve it based on self-esteem.	appropriately
	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 technologies	GC-7.1 owns the skills of digital technologies use and
and methods of searching, processing,	search methods
analyzing, storing and presenting	GC-7.2 can process, analyze, store and correctly
information (in the field of Ecology and	present information
nature management) in the digital	GC-7.3 knows the principles and techniques of modern
economy and modern corporate	corporate information culture and the digital economy
information culture.	basics
GPC-1. Able to use philosophical	GPC-1.1 Knows the philosophical concepts of natural
concepts and methodology of scientific	science and methodology of scientific creation
creation in the study of various levels of	GPC-1.2 Able to use in-depth knowledge in the
matter, space and time organization.	philosophical concepts of natural science in assessing
	the professional activities consequences
	GPC-1.3 Able to apply the acquired knowledge in the
	research activities, to make correct generalizations and
	conclusions
GPC-2. Able to use special and new	GPC-2.1 Knows the basics of ecology, geoecology,
sections of ecology, geoecology and	environmental economics and circular economy, as
nature management in solving research	well as environmental management
nature management in solving rescaled	won as environmental management

foreign language(s) for academic and professional interaction and uses professional vocabulary in foreign and Russian

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.	GPC-3.2 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
GPC-4. Able to apply regulatory legal acts and norms of professional ethics in	GPC-4.1 Knows the environmental regulation and legislation basics in the field of nature management
the field of ecology and nature management.	GPC-4.2 Knows how to use and apply regulatory legal acts in the field of ecology and nature management
	GPC-4.3 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.	GPC-5.2 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
GPC-6. Able to design, represent, protect and disseminate the results of their professional activities, including research.	GPC-6.1 Able to receive, analyze, summarize the necessary scientific information using modern research methods, present their own results in the form of scientific articles and public speeches
	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
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-analytical work at the enterprise

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	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
organization of the control of the c	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	PC-4.1 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 life cycle
PC-5 Able to analyze the causes and minimize the consequences of the production negative impact on the	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-6 Able to coordinate activities for the organization and control in the field	PC-6.1 Capable of monitoring activities in the field of waste management
of production and consumption waste management	PC-6.2 Has the skills to organize the infrastructure for environmentally safe disposal and processing of production and consumption waste
PC-8 Possesses the skills of preparing thematic maps and plans, analytical information on engineering and	PC-8.1 Possesses the skills of preparing thematic maps and plans, analytical information on engineering and environmental surveys
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-8.3 Able to use modern information technologies and
	specialized programs to process the received data and
	carry out their analysis
DC 0 Ablata samur aut a full gaala	PC-9.1_Possesses the skills of sampling water, soil, air
PC-9 Able to carry out a full-scale	and biological objects to assess their environmental
examination of an object, its parts,	1141
foundation or environment and has the	PC-9.2 Able to carry out laboratory research,
skills of desk processing and	measurements, analyzes of selected natural samples
formalization of research results	PC-9.3 Capable of performing statistical analysis of
	obtained data on the state of the natural environment
PC-10 Capable of monitoring the state	PC-10.1 Capable of monitoring compliance with
-	
of the environment using	environmental protection requirements
environmental technologies	PC-10.2 Capable of developing an action plan aimed at
	meeting the requirements of regulatory legal acts in the
	field of environmental protection, taking into account
	best practices
	PC-10.3 Able to analyze large amounts of professional
	information
PC-11 Able to determine the structure	PC-11.1 Knows methods of zoning the assessed territory
and master the methods of zoning the	according to the permissible anthropogenic load on
assessed territory according to the	environmental components
types of anthropogenic load and	PC-11.2 Able to determine the structure of
environmental components	anthropogenic load on environmental components
•	PC-11.3 Able to identify areas of increased
	environmental danger
PC-12 Able to use modern means of	PC-12.1 Able to use modern information technologies
geographic information systems and	and specialized programs to process the received data
information and communication	and carry out their analysis
technologies in professional activities	
	communication technologies in professional
	activities
PC-13 Capable of conducting spatial,	PC-13.1 Able to analyze and evaluate available resources
territorial, demographic, sociological,	and conditions necessary for the implementation of
economic research, engineering-	research
geological, 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
PC-13 Capable of conducting spatial, territorial, demographic, sociological, economic research, engineering-	PC-12.2 Able to use modern means of geographic information systems and information and communication technologies in professional activities PC-13.1 Able to analyze and evaluate available resources and conditions necessary for the implementation of research PC-13.2 Capable of assessing the extent of damage and degradation of the natural environment

3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

The internship refers to the core 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-1	Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy	Methodology of Scientific Creation Modern Technologies for Nature Protectio Environmental Contr ol 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-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
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 IT i	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	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
SPC-2	Able to use special and new sections of ecology, geoecology and nature management in solving research and applied problems of professional activity	Modern Technologies for Nature Protection OBOC объектов в сфере управления отходами Regional & Municipal MSW Management Systems MSW Recycling and Utilization Technics Basics of Circular Economics Green Economy and Tools for Enterprises Sustainable Development Engineering Ecology	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma
SPC-3	Able to apply environmental research methods to solve research and applied problems of professional activity	Environmental impact assessment (EIA) of SWM objects Environmental Control and MSW Monitoring Programs Physicochemical Methods of Waste Testing Mapping And GIS-technologies in MSW Management Remote Sensing of MSW Object	Research work on thesis Internship Pre-Graduation Practical Training Preparing and Passing the State ExamDegree Diploma

SPC-4	Able to apply regulatory legal acts in the field of ecology and nature management, norms of professional ethics	Modern Technologies for Nature Protection Nature Protection and Accumulated Environmental Damage (AED) Elimination Tools 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
SPC-5	Able to solve the problems of professional activity in the field of ecology, nature management and nature protection using information and communication, including geoinformation technologies	IT in Ecology and Natural Resources Management Regional & Municipal MSW Management Systems 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
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		Research work on
	production activities,		thesis
	generalize the results		Internship
	obtained in the		Pre-Graduation Practical
	context of previously		Training
	accumulated in		Preparing and Passing the State
	science knowledge		ExamDegree Diploma
	and formulate		Exambegice Dipioma
	conclusions and		
	practical		
	recommendations		
	based on		
	representative and		
	original research		
	results		
	the ability to	Environmental impact assessment	Research work on
	creatively use in	(EIA) of SWM objects	thesis
	scientific and	MSW Recycling and Utilization	Internship
	industrial and	Technics	Pre-Graduation Practical
	technological	Commes	Training
PC-2	activities the		Preparing and Passing the
	knowledge of		State ExamDegree
	fundamental and		Diploma
	applied sections of		Diproma
	special disciplines of		
	the master's program		
		Regional & Municipal MSW	Research work on
	possession of the	Management Systems	thesis
	basics of design,	Management of Environmental-	Internship
	expert-analytical	economic Risks	Pre-Graduation Practical
D.C. 4	activities and		Training
PC-3	research using		Preparing and Passing the
	modern approaches		State ExamDegree
	and methods,		Diploma
	equipment and		
	computer systems		
	the ability to use	IT in Ecology and Natural Resources	Research work on
	modern methods of	Management	thesis
	processing and		Internship
PC-4	interpreting		Pre-Graduation Practical
rC-4	environmental		Training
	information in		Preparing and Passing the
	scientific and		State ExamDegree
	industrial research		Diploma
	the ability to develop	Environmental impact assessment	Research work on
	standard	(EIA) of SWM objects	thesis
	environmental	Management of Environmental-	Internship
	measures and assess	economic Risks	Pre-Graduation Practical
PC-5	the impact of	Mapping And GIS-technologies in	Training
	_	MSW Management	Preparing and Passing the
	other forms of	Remote Sensing of MSW Objects	State ExamDegree
	economic activity on		Diploma
	the environment		

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	and information and communication technologies in professional	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	activities 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 12 credits (432 academic hours).

5. INTERNSHIP CONTENTS

Table 5.1. Internship contents *

Modules	Contents (topics, types of practical activities)	Workload, academic hours
	Receiving an assignment for an internship from a manager, receiving advice on internships	2
Module 1.	Instruction on labor protection and fire safety	2
Organizational and	Research methodology choice	20
preparatory part	Drawing up a work schedule on the study	
	Literature review on the research topic using foreign literature	80
Module 2. Main Activities for the collection, processing and systematization of material according to the final qualification work subject		160
	Registration of final qualifying work	106
	Current internship control by the supervisor	20
Module 3.	Internship Report Preparation	20
Reporting	Report Defense	2
	TOTAL:	432

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; chalk board; hardware: HP PRO system unit, HP-V2072A monitor, LUMIEN retractable projection screen,
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.	Internet access. Microsoft Windows 7 corporate. License No. 5190227, date of issue March 16, 2010 MS Office 2007 Prof, License # 6842818, date of issue 09/07/2009
An auditorium for independent work of students (can be used for seminars and consultations), 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 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 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 Engineering 2011. 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/
- Google search engine https://www.google.ru/
- Scopus abstract database http://www.elsevierscience.ru/products/scopus/

Scientific full-text databases. The list of databases is in alphabetical order with a description of each resource and a link. 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.

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:

Associate Professor of the Popkova A.V. **ES&PQM** Department Position, BUP Signature Name, Surname **HEAD OF EDUCATIONAL DEPARTMENT:** Savenkova E.V. Director of ES&PQM Department Position Signature Name, Surname **HEAD OF HIGHER EDUCATION PROGRAMME:** Associate Professor of the Kapralova D.O. **ES&PQM** Department Position Signature Name, Surname