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Agrarian and Technological Institute

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

INTERNSHIP SYLLABUS

Undergraduate practice

internship title

Undergraduate practice

internship type

Recommended by the Didactic Council for the Education Field of:

35.03.09 Landscape architecture Management and design of urban green infrastructure field of studies / speciality code and title

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

Landscape architecture

higher education programme profile/specialisation title

1. INTERNSHIP GOAL(s)

The goal of the **«Undergraduate practice»** is to prepare the student for independent research work, the result of which is writing and successful defense of the final qualifying work, securing existing and acquiring new knowledge and skills that form the competences provided of RUDN University.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The **«Undergraduate practice**» is aimed at the formation of the following competencies among students:

Compete **Competence formation indicators** nce code **Competence descriptor** (within this course) Student is able to search, critically UC-1.1 student able to apply is analyze problem situations based on asystematization to solve tasks; UC-1 systematic approach, and develop aUC-1.2 Student is able to search and analyze strategy for action information; UC-2.1 Student is able manage the project at Student is able to manage the project at all stages UC-2 all stages of it life cycle UC-2.2 Student is able plan and analyze the project at all stages Student is able to organize and manage UC-3.1 Student is able to organize team work the work of the team, developing ateam on the project; UC -3 strategy to achieve the goal UC-3.2 student is able to interact with the executive authorities to coordinate allstages of design; modern Student is able to apply communication technologies in the state UC4.1 Student is able to prepare all the necessary documentation for the project in language of the Russian UC -4 Federation and foreign language(s) for Russian and a foreign language; UC-4.2 Student is able to communicate on the academic and professional interaction project in Russian and a foreign language; Student is able to analyze and take into UC-5.1 Student is able to understand the account the diversity of cultures in the peculiarities of the social organization of process of intercultural interaction society, the specifics of the mentality and worldview of the cultures of the West and UC-5 East: UC-5.2 Student is able to overcome the cultural barrier, perceiving cross-cultural differences; able to determine and UC-6.1 "Student is able to plan his life Student is implement the priorities of his own activities for the period of study in an activities and ways to improve it based oneducational organization"; UC-6 self-assessment UC6.2 Student is able to determine thetasks of self-development and professional growth, distribute them for long-medium- and shortterm with justification of their

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

		relevance and determination of the necessary
		resources;
	Student is able to apply a systematic	
	**	UC-7.1 Student is able systematically analyze
UC-7	culture.	the state of the project in the information field
		UC-7.2 Student is able work within the
		information field to promote the project
	Student is able to analyze modern	GPC-1.1 Student is capable of solving
	problems at the factory and production	1 0
GPC-1	solve complex (non-standard) tasks in	
010-1	professional activity;	GPC-1.2 Student is able to analyze the
	professional activity,	-
		current problems of the leg and production;
1	Student is able to transfer professiona	
	knowledge using modern pedagogica	
GPC-2	techniques;	GPC-2.2 Student is able to transfer
		professional knowledge using information
		technology;
	Student is able to develop and implemen	tGPC-3.1 Student is able to implement new
		effective technologies in professional
	professional activities;	activity;
GPC-3		GPC-3.2 Student is able to develop new
		effective technologies in professional
		8 1
		activity;
		GPC-4.1 Student is able to conduct
GPC-4	research, analyze the results and prepare	
0101	accounting documents;	GPC-4.2 Student is able to prepare
		accounting documentation;
	Student is able to carry out a feasibility	GPC-5.1 Student is capable of carrying out
CDC 5	study of projects in professional activity;	economic justification of projects;
GPC-5		GPC-5.2 Student is able to carry out a
		feasibility study of projects;
	Student is able to manage teams and	GPC-6.1 Ability to organize production
GPC-6	organize production processes.	processes;
010-0	organize production processes.	GPC-6.2 Ability to manage a team;
	Ability to design of technologies	
		IPC-1.1 Ability to manage the construction
		fand maintenance of landscape architecture
PC-1	•	lobjects
	-	ePC-1.2 Ability to design of technological
	objects	processes for engineering preparation of the
		territory
	Ability to evaluate the effectiveness of	fPC-2.1 Student is able to assess the efficiency
		,of equipment use
PC-2		PC-2.2 Student is able to evaluate the
	architecture objects	effectiveness of the use of technologies and
		materials
	Ability to access the impact of measure	
	Ability to assess the impact of measures	foustainable management of the facility DC
		fsustainable management of the facility PC-
PC-3		e3.2 Student is able to monitor the condition
	improvement of the quality and safety of	tot the facility
	the human habitat	

PC-4	Ability to implement measures for external improvement and gardening of territories to create favorable sanitary and hygienic conditions, increase the level of comfort of a person's stay in the urban environment, its general aesthetic enrichment	environmental state of the design object PC- 4.2 Student is able to create a project for sustainable development of the territory
PC-5	implementation of a system of measures	PC-5.2 Student is able to analyze the state of
PC-6	Ability to organizing work on urban monitoring and inventory at landscape architecture sites, compiling a cadastre of green spaces	certification of green spaces at design
РС-9	Ability to organizing and carrying out all types of work on objects of landscape architecture	PC-9.1 Student is able to find contractors to carry out project work PC-9.2 Student is able to organize the work of the team
UC-7.1	sources of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data obtained from various sources in order to effectively use the information received to solve problems:	collection and analysis;
UC-7.2	Student is able to evaluate information,	UC-7.2.1 Student is able to verify the accuracy of the information received; UC-7.2.2 Student is able to logically assess the reliability of the information received.

3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

The **«Undergraduate practice** belongs to the part formed by the participants of educational relations.

Within the framework of the practice, students also master other disciplines and/or practices that contribute to achieve the planned results of mastering the **«Undergraduate practice».**

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.

Compete nce code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
UC-1	Student is able to search, critically analyze problem situations based on a systematic approach, and develop a strategy for action	Data analysis and statistics, Landscape planning and sustainable development, Phytopathology and Plant Protection, Landscape engineering and naturebased solution, Green infrastructure urban climate and carbon neutrality, Principles of remote sensing and modeling, Advances in environmental monitoring, Scientific writing skills, Research planning, Scientific research, Internship in research laboratories, enterprise, public administrations and other organizations, Scientific research and thesis preparation (in English)	
UC-2	Student is able to manage the project at all stages of it life cycle		-
UC -3	and manage the work of the team, developing a team strategy to achieve	Data analysis and statistics, Landscape planning and sustainable development, Phytopathology and Plant Protection, Landscape engineering and naturebased solution, Green infrastructure urban climate and carbon neutrality, Principles of remote sensing and modeling, Advances in environmental monitoring, Scientific writing skills, Urban ecology, Internship in research laboratories, enterprise, public administrations and other organizations, Scientific research and thesis preparation (in English)	

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UC -4	modern communication technologies in the state	Data analysis and statistics, Landscape planning and sustainable development, Foreign language (Russian language), Phytopathology and Plant Protection, Green infrastructure urban climate and carbon neutrality, Research planning, Scientific research, Internship in research laboratories, enterprise, public administrations and other organizations, Scientific research and thesis preparation (in English)	
UC-5	and take into account the diversity of cultures in the	Data analysis and statistics, Landscape planning and	
UC-6	Student is able to determine and implement the priorities of his own activities and ways to improve it based on self- assessment	Data analysis and statistics, Landscape planning and sustainable development, Phytopathology and Plant Protection, Landscape engineering and naturebased solution, Green infrastructure urban climate and carbon neutrality, Principles of remote sensing and	_

GPC-1 modeling, Advances in environmental monitoring, Urban ecology, Scientific writing skills, Research planning, Scientific research, Internship in research, Internship in research and thesis preparation (in English) UC-7 Student is able to apply a but analysis and statistics, - ifiel of information culture. public administrations and other organisations Student is able to analyze modern problems at the factory and production, standard) tasks in profecsional activity; ensing and maturebased solution, Principles of remote sensing and nuturebased solution, Principles of research laboratories, enterprise, administrations and other organizations. GPC-1 GPC-2 GPC-4 GP			1 1	
GPC-1 Urban ecology, Scientific writing skills, Research planning, Scientific research, Internship in research, Internship in research ad other organizations, Scientific research and thesis preparation (in English) Student is able to apply a systematic approach in the field of information culture. Internship in research adsoratories, enterprise, culture. - Student is able to analyze of the factory and production, solve complex (non- standard) tasks in professional activity; Student is able to analyze modern problems at the factory and production, solve complex (non- standard) tasks in professional activity; - GPC-1 Student is able to transfer professional activity; engineering and naturebased solution, Principles of remote sensing and modeling, scientific - GPC-1 Student is able to transfer professional activity; Data analysis and statistics, professional activity; - GPC-1 Student is able to transfer professional activity; Data analysis and statistics, professional knowledge using modern pedagogical sustainable development, techniques; - GPC-2 Student is able to transfer professional knowledge using modern pedagogical sustainable development, techniques; - - GPC-2 Fintopper prise, public administructure urban climate and carbon neutrality, Principles of renote sensing and modeling, Scientific research, laboratories, enterprise, public -			-	
GPC-1 GPC-2			6,	
GPC-1 planing, Scientific research, Internship in research, Internship in research, Internship in research, Internship in research, and other organizations, Scientific research, and thesis research and thesis systematic approach in the Internship in field of information aboratories, enterprise, culture. outlare. public administrations and other organizations - Student is able to analyze. Data analysis and statistics, - modern problems at the factory and production, sustainable development, Polytopathology and Plant solve complex (non-standard) tasks in Protection, Landscape professional activity; engineering and modeling, Scientific research nad modeling, Scientific research and thesis generations sensing and modeling, Scientific research nad thesis professional knowledge Landscape planning, Scientific research research nad thesis professional knowledge Landscape planning and using modern pedagogical sustainable development,			Urban ecology, Scientific	
GPC-1 GPC-2 GPC-1 GPC-2			writing skills, Research	
GPC-1 GPC-2			planning, Scientific	
GPC-1 GPC-2				
GPC-1 enterprise, public administrations, Scientific research and thesis preparation (in English) UC-7 Student is able to apply a bata analysis and statistics, systematic approach in the Internship in research laboratories, enterprise, public administrations and other organizations - UC-7 Student is able to analyze Data analysis and statistics, nodern problems at the Landscape planning and factory and production, solve complex (non-standard) tasks in professional activity; engineering and naturebased solution, Principles of remote sensing and modeling, Scientific research, Internship in research, and other organizations, Scientific research, and other organizations, Scientific research, and other organizations, Scientific research, Internship in research and other organizations, Scientific research and thesis preparation (in English) GPC-1 Student is able to transfer professional knowledge using modern pedagogical sustainable development, Phytopathology and Plant Protection, Green infrastructure urban climate and carbon neutrality, Principles of remote sensing and modeling, Scientific research laboratories, enterprise, public administrations and other organizations, Scientific research planning,			-	
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GPC-1 organizations, Scientific research and thesis preparation (in English) UC-7 Student is able to apply a field of information culture. Data analysis and statistics, public administrations and other organisations - Student is able to analyze modern problems at the factory and production, solve complex (non- standard) tasks in professional activity; Data analysis and statistics, professional activity; - GPC-1 Student is able to tanks in professional activity; Protection, engineering and naturebased solution, Principles of remote sensing and modeling, Scientific - GPC-1 Student is able to transfer professional activity; engineering and naturebased solution, Principles of remote sensing and modeling, Scientific - GPC-1 Student is able to transfer planning, Scientific research, laboratories, enterprise, public administrations and other organizations, Scientific research and thesis preparation (in English) - GPC-2 Student is able to transfer professional knowledge using modern pedagogical itechniques; Stuatiable development, Phytopathology and Plant Protection, Green infrastructure urban climate and carbon neutrality, Principles of remote sensing and modeling, Scientific research, Internship in research laboratories, enterprise, public -			1 · 1	
GPC-1 Student is able to apply a systematic approach in the field of information culture. Data analysis and statistics, public administrations and other organisations - GPC-1 Student is able to analyze modern problems at the factory and production, solve complex (non- standard) tasks in professional activity; Student is able to analyze modern problems at the factory and production, solve complex (non- standard) tasks in professional activity; - GPC-1 Student is able to transfer professional activity; Protection, solve complex, (non- standard) tasks in professional activity; - GPC-1 Student is able to transfer professional activity; Scientific research - GPC-1 Student is able to transfer professional knowledge - Student is able to transfer professional knowledge Landscape plusing and tusing modern pedagogical sustainable - Student is able to transfer professional knowledge Landscape plusing and tusing modern pedagogical sustainable - GPC-2 Student is able to transfer professional knowledge Landscape plusing and timate and carbon neutrality, Principles of remote sensing and modeling, Scientific - GPC-2 Student is able to transfer professional knowledge Scientific writing skills, Research planing, Scientific - GPC-2 Student is able to transfer planing, Scientific GPC-2 -				
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	[
		organizations, Scientific	
		research and thesis	
		preparation (in English)	
	Student is able to develop		-
	-	Data analysis and statistics,	
	-	Landscape planning and	
	1	sustainable development,	
		Phytopathology and Plant	
		Protection, Landscape	
		engineering and naturebased	
		solution, Urban	
GPC-3		ecology, Scientific writing	
		skills, Research planning,	
		Scientific research,	
		Internship in research	
		laboratories, enterprise,	
		public administrations and	
		other organizations,	
		Scientific research and thesis	
		preparation (in English)	
		Data analysis and statistics,	-
	scientific research, analyze	1 1 0	
	1 1	sustainable development,	
	-	Phytopathology and Plant	
		Protection, Landscape	
		engineering and naturebased	
		solution, Scientific writing	
GPC-4		skills, Research planning,	
		Scientific	
		research, Internship in	
		research laboratories,	
		enterprise, public	
		administrations and other	
		organizations, Scientific	
		research and thesis	
		preparation (in English)	
		Data analysis and statistics,	-
		Landscape planning and	
	1 5 1	sustainable development,	
	_	Phytopathology and Plant	
		Protection, Landscape	
		engineering and naturebased	
GPC-5		solution, Scientific writing	
		skills, Research planning,	
		Scientific	
		research, Internship in	
		research laboratories,	
		enterprise, public	
		administrations and other	
		organizations, Scientific	

		research and thesis	
		preparation (in English)	
GPC-6	teams and organize production processes.	Data analysis and statistics, Landscape planning and sustainable development, Scientific writing skills, Research planning, Scientific research, Internship in research laboratories, enterprise, public administrations and other organizations, Scientific research and thesis preparation (in English)	
PC-1	Ability to design of technological processes for engineering preparation of the territory, construction and maintenance of landscape architecture objects	Landscape planning and	-
PC-2	Ability to evaluate the effectiveness of the use of materials, equipment, technological processes at landscape architecture objects	Urban ecology	-
PC-3	-	Phytopathology and Plant Protection	-
PC-4	•	Landscape planning and sustainable development, Urban ecology	_

PC-5	Ability to development and implementation of a system of measures for the conservation of plantations in the interests of ensuring the right of every citizen to a favorable environment	sustainable development	-
PC-6	Ability to organizing work on urban monitoring and inventory at landscape architecture sites, compiling a cadastre of green spaces	Research planning , Scientific research	-
PC-9	Ability to organizing and	Landscape planning and sustainable development, Internship in research laboratories, enterprise, public administrations and other organisations	-
UC-7.1	of information and data, perceive, analyze, memorize and transmit information using digital means, as well as using algorithms when working with data obtained from various sources in order to	Scientific research and thesis	
UC-7.2	Student is able toevaluate information, its reliability, and build logical conclusions based on incoming information	laboratories, enterprise, public administrations and other organizations, Scientific research and thesis preparation (in English)	

* - filled in in accordance with the matrix of competencies and SC EP HE

4. INTERNSHIP WORKLOAD

The total workload of the practice «Undergraduate practice» is 9 ECTS (324 a.h.).

5. INTERNSHIP CONTENTS

Table 5.1. Internship contents*

Modules	Contents (topics, types of practical activities)	Workloa d, academi c hours
Module 1. Preparatory stage, familiarization of students with general information about the objects and methods of research, work plan, safety instructions, organizational issues	Class work	8
Module 1. Literature survey and review to support the methodological part of the further work	Analytical studies	150
Module 1. Data collection in field (lab) conditions following the methodology	Analytical studies	100
Module 1. Data processing, analysis and visualization	Analytical studies	48
Preparation of a practice report	rt	9
Preparation for defense and de	efense of the practice report	9
	TOTAL	324

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

6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Material and technical support of internship will be provided by usage all the necessary field and lab equipment, computer classes, specialized audience and library funds of RUDN and enterprises the internship is based on QGIS, R, MS Office (Word, Excel, Power Point), access to the web-libraries Scopus and Web of Science and other professional software depending on the

practical tasks. The program of educational practice, developed by the Department of Landscape Design and Sustainable Ecosystems of the Agrarian-Technological Institute of the RUDN University, methodical recommendations on the organization and conducting practices for graduate students of the Landscape Architecture direction, Teodoronsky VS, Fatiyev MM Construction and operation of urban landscaping // study guide. Publishing house: M. Forum.-2011. 237s

7. INTERNSHIP LOCATION AND TIMELINE

«Undergraduate practice» can be carried out both in the structural divisions of RUDN University or in organizations of Moscow (stationary), and at bases located outside of Moscow.

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

The terms of the practice correspond to the period specified in the calendar training schedule of the EP HE. The terms of the practice can be adjusted upon agreement with the Department of Educational Policy and the Department for the organization of internships and employment of students at RUDN University.

8. RESOURCES RECOMMENDED FOR INTERNSHIP

Main readings:

1. Vasenev V.I., Epikhina A.S. Urban ecology. RUDN University. 2017

2. Alberti M. Advances in Urban Ecology: Integrating Humans and Ecological

Processes in Urban Ecosystems Springer; 2008 366 p.

3. R.T.T. Forman. Urban Ecology: Science of Cities Cambridge University Press 2014. 474 p.

4. J. Niemela, J. H. Breuste, G.Guntenspergen. Urban Ecology: Patterns, Processes, and Applications. Oxford University Press; Reprint edition. 2012. 392 p.

5. Denisov V.V., Kurbatova A.S., Denisova I.A., Bondarenko V.L., Gracheva V.A., Gutenev V.V., Nagnibeda B.A. «Ecology of a city». M.: Rostov on Don: 2008-832 p.(in Russia).

Additional readings:

1. Dolgikh, A.V., Aleksandrovskii, A.L., 2010. Soils and cultural layers in velikii Novgorod. Eurasian Soil Science, 43, 477-48.

2. Ilina, I.N. (Eds.), 2000. Environmental atlas of the Moscow city. ABF. Moscow (in Russian)

3. Kaye, J.P., McCulley, R.L., Burkez, I.C., 2005. Carbon fluxes, nitrogen cycling, and soil microbial communities in adjacent urban, native and agricultural ecosystems. Global Change Biology 11, 575-587.

4. Lorenz, K., Lal, R., 2009. Biogeochemical C and N cycles in urban soils. Environment International 35, 1-8.

5. Pickett, S.T.A., Cadenasso, M.L., Grove, J.M., Boone, C.G., Groffman, P.M., Irwin, E., Kaushal, S.S., Marshall, V., McGrath, B.P., Nilon, C.H., Pouyat, R.V., Szlavecz, K., Troy, A., Warren, P., 2011. Urban ecological systems: scientific foundations and a decade of progress.

Journal of Environmental Management 92, 331-362

6. Scalenghe, R., Marsan, F.A. The anthropogenic sealing of soil in urban areas, 2009. Landscape and urban planning 90, 1-10.

7. Vrscaj, B., Poggio, L., Marsan, F., 2008. A method for soil environmental quality evaluation for management and planning in urban areas. Landscape and Urban Planning 88, 81-94

Internet sources

http://www.mvarchicad.com http://artlantis.ru/ http://www.autodesk.ru. http://www.adobe.com. www.archibase.net.http://www.artshare.ru. http://archicad.ru/. http://www.archicad-edu.info. http://www.archi-tec.ru/. http://www.arhitekto.ru/. http://arkhitektura.ru/. http://www.archibase.net. www.gardener.ru/. http://wwwjandshaft.ru/

Resources of the Internet information and telecommunication network:

1 . RUDN University e-library and other e-libraries, to which university students have access on the basis of concluded agreements:

- RUDN electronic library system <u>http://lib.rudn.ru/MegaPro/Web</u>
- University Library Online http://www.biblioclub.ru
- Yurite electronic library system http://www.biblio-online.ru
- Student's Consultant electronic library system <u>www.studentlibrary.ru</u>
- Lan e-library <u>http://eJanbook.com/</u>
- Trinity Bridge e-library
- 2 .Databases and search engines:
 - electronic fund of legal and normative-technical documentation <u>http://docs.cntd.ru/</u>
 - Yandex <u>https://www.yandex.ru/</u>
 - Google <u>https://www.google.ru/</u>
 - NCBI: <u>https://p.360pubmed.com/pubmed/</u>
 - Abstract database SCOPUS <u>http://www.elsevierscience.ru/products/scopus/</u>
 - RUDN Bulletin: access mode from the RUDN territory and remotely <u>http://journals.rudn.ru/</u>
 - Elibrary.ru scientific library: access via RUDN IP-addresses at: http://www.elibrary.ru/defaultx.asp
 - ScienceDirect (ESD), FreedomCollection, Cell Press of Elsevier Publishing House. There is remote access to the database, access via RUDN IP-addresses (or remotely via individual login and password).
 - Google Scholar is a free search engine for full-text scientific publications of all formats

and disciplines. Indexes the full texts of scientific publications. Access mode: <u>https://scholar.google.ru/</u>

Educational and methodological materials for the practice, filling out a diary and preparing a report on practice *:

1. Safety rules for the passage of «Undergraduate practice» (initial briefing).

2. The general arrangement and principle of operation of technological production equipment used by students during their internship; flow charts and regulations, etc. (if necessary).

3. Guidelines for filling in the diary by students and preparing a practice report.

* - all teaching materials for the practice are placed in accordance with the current procedure on the practice page in the <u>**TUIS System**</u>!

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

Evaluation materials and a point-rating system* for assessing the level of competence formation (part of competencies) based on the results of mastering the «Undergraduate practice» are presented in the Appendix to this Work Program of the practice

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

DEVELOPERS:

Associate Professor, department of landscape planning and sustainable ecosystems Soul

V. I. Vasenev

position, educational department

signature

name and surname.

HEAD OF EDUCATIONAL DEPARTMENT:

Director, department of landscape planning and sustainable ecosystems



E. A. Dovletyarova

educational department

signature

name and surname.

HEAD OF HIGHER EDUCATION PROGRAMME:

Associate Professor, department of landscape planning and sustainable ecosystems

part,

V. I. Vasenev

position, educational department

signature

name and surname