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

Agrarian and Technological Institute

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

INTERNSHIP SYLLABUS

Undergraduate Practice

internship title

Production

internship type

Recommended by the Didactic Council for the Education Field of:

35.04.04 Agronomy

field of studies / speciality code and title

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

General agronomy

higher education programme profile/specialisation title

1. INTERNSHIP GOAL

The purpose of conducting pre-graduation practice is to collect, summarize and analyze the materials necessary for the preparation of the final qualifying work.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The pre-graduation practice is aimed at developing the following competencies (parts of competencies) in students:

*Table 1 – List of competencies developed in students during internship
(learning outcomes based on internship results)*

Cipher	Competence	Indicators of Competence Achievement
UK-1	Able to search, critically analyze and synthesize information, apply a systematic approach to solving assigned tasks	UK-1.1 Performs a search for the necessary information, its critical analysis and generalizes the results of the analysis to solve the problem the task at hand
		UK-1.2 Uses a systems approach to solutions to the assigned tasks
		UK-1.3 Develops a strategy for achieving the set goal as a sequence of steps, anticipating the result of each of them and assessing their impact on the external environment of the planned activity and on relationships between participants in this activity
UK-2	Able to manage a project at all stages of its life cycle	UK-2.1 Develops a project concept within the framework of the identified problem, formulating the goal, objectives, relevance, significance (scientific, practical, methodological and other depending on the type of project), expected results and possible areas their applications
		UK-2.2 Forms a schedule for the implementation of the project as a whole and a plan for monitoring its implementation, organizes and coordinates work of project participants
		UK-2.3 Suggests possible ways (algorithms) for implementing the project results into practice (or implements them)
UK-4	Able to implement modern technologies and justify their application in professional activities	UK-4.1 Demonstrates the integrative skills necessary for writing, translating and editing a variety of academic texts (abstracts, essays, reviews, articles, etc.)
		UK-4.3 Demonstrates the integrative skills necessary for effective participation in academic and professional discussions
UK-6	Able to define and implement priorities of his own activities and	UK-6.1 Assesses his resources and their limits (personal, situational, temporary), uses them optimally for successful completion of the assigned task

	ways to improve it based on self-assessment	UK-6.2 Plans a professional trajectory taking into account the specifics of both professional and other types of activity and the requirements of the labor market
UK-7	Able to search for the necessary sources of information and data, perceive, analyze, remember 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, evaluate information, its reliability, build logical conclusions based on incoming information and data	UK-7.1 Conducts an assessment of information, its reliability, builds logical conclusions based on incoming information and data
		UK-7.2 Has practical experience in searching, perceiving, storing, analyzing, transmitting information and data using digital tools, algorithms and application programs in order to solve assigned tasks
OPK-1	Capable of solving problems of development of the field of professional activity and (or) organization based on the analysis of achievements of science and production	OPK-1.1 Demonstrates knowledge of the basic methods of analyzing the achievements of science and production in agronomy
		OPK-1.2 Uses methods for solving problems of agronomy development based on the search and analysis of modern achievements of science and production
		OPK-1.3 Applies available technologies, including information and communication technologies, to solve problems of professional activity in agronomy
OPK-3	Able to use modern methods of solving problems when developing new technologies in professional activities	OPK-3.1 Analyzes methods and ways of solving problems in developing new technologies in agronomy
		OPK-3.2 Uses information resources, scientific achievements and practice in the development of new technologies in agronomy
OPK-4	Able to conduct scientific research, analyze results and prepare reporting documents	OPK-4.2 Uses information resources, scientific, experimental and instrumental base for conducting research in agronomy
		OPK-4.3 Formulates the results obtained in the course of solving research problems
OPK-7	Able to master the tools for working with large arrays of structured and unstructured information, and use modern digital methods	OPK-7.1 Has a toolkit for working with large arrays of structured and unstructured information
		OPK-7.2 Uses modern digital methods of processing, analysis, interpretation and visualization of data in order to solve the assigned tasks

	processing, analysis, interpretation and visualization of data in order to solve the tasks of professional and scientific research activities in the field of agronomy	
PC-1	Capable of organizing experiments (field trials) to assess the effectiveness of innovative technologies (elements of technology), varieties and hybrids in production conditions	PC-1.1 Draws up a research program to study the effectiveness of innovative technologies (elements of technology), varieties and hybrids, develops methods for conducting experiments, masters new research methods
PC-4	Capable of creating models of agricultural crop cultivation technologies, plant protection systems, varieties	PC-4.1 Creates models of agricultural crop cultivation technologies, plant protection systems, varieties

3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

Pre-graduation practice refers to the part formed by participants in educational relations.

Within the framework of the EP VO, students also master disciplines and/or other practices that contribute to the achievement of planned learning outcomes following the completion of pre-graduation practice.

Table 2 – List of components of the educational program of higher education that contribute to the achievement of planned learning outcomes following the completion of the internship

Cipher	Name of competence	Previous disciplines/modules, practices	Further disciplines/modules, practices
UK-1	Able to search, critically analyze and synthesize information, apply a systematic approach to solving assigned tasks	Information Technology / Information Technology Soil Fertility Management Pests and Diseases / Pests and Plant Diseases Technological Practice / Technological practice	
UK-2	Able to manage a project at all stages of its life cycle	Soil Fertility Management / Soil Fertility Management Mechanization of Crop Production / Mechanization of plant production Technological Practice / Technological Practice Marketing / Marketing Management / Management	
UK-4	Capable of implementing modern technologies and	Russian as a Foreign Language / Russian as a Foreign Language	

	justify their application in professional activities	Scientific Research Work / Scientific Research Work	
UK-6	Able to define and implement priorities of own activities and ways of its improvement based on self-assessment	Technological Practice / Technological Practice	
UK-7	Able to search for the necessary sources of information and data, perceive, analyze, remember 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, evaluate information, its reliability, build logical conclusions based on incoming information and data	Information Technology / Information Technology Soil Fertility Management Pests and Diseases / Pests and Plant Diseases Plant Protection / Plant Protection Scientific Research Work / Scientific Research Work	
OPK-1	Capable of solving problems of development of the field of professional activity and (or) organization based on the analysis of achievements of science and production	Crop Production / Crop Production Soil Fertility Management Postharvest Management / Postharvest processing Scientific Research Work / Scientific Research Work Pests and Diseases / Pests and Plant Diseases	
OPK-3	Able to use modern methods of solving problems when developing new technologies in professional activities	Soil Fertility Management / Soil Fertility Management Technological Practice / Technological practice	
OPK-4	Able to conduct scientific research, analyze results and prepare reporting documents	Breeding and Seed Production / Breeding and seed production Scientific Research Work / Scientific Research Job	
OPK-7	Able to master the tools for working with large arrays of structured and unstructured information, use modern digital processing methods,	Information Technology / Information Technology Pests and Diseases / Pests and Plant Diseases	

	analysis, interpretation and visualization of data in order to solve the tasks of professional and research activities in the field of agronomy	Plant Protection / Plant Protection Technological Practice / Technological Practice Scientific Research Work / Research work	
PC-1	Capable of organizing experiments (field trials) to assess the effectiveness of innovative technologies (elements of technology), varieties and hybrids in production conditions	Information Technology / Information Technology Crop Production / Crop Production Soil Fertility Management / Soil Fertility Management Mechanization of Crop Production / Mechanization of plant production Pests and Diseases / Pests and Plant Diseases Breeding and Seed Production / Plant Protection Breeding and Seed Production / Plant Protection Technological Practice / Technological Practice Scientific Research Work / Scientific Research Job	
PC-4	Capable of creating models of agricultural crop cultivation technologies, plant protection systems, varieties	Crop Production / Crop Production Breeding and Seed Production / Plant Protection Breeding and Seed Production / Plant Protection Scientific Research Work / Scientific Research Work	

4. INTERNSHIP WORKLOAD

The total workload of pre-graduation practice is 3 credit units (108

(acc.

h.). 5. INTERNSHIP CONTENTS

Namepractice section	Section content (topics, types of practical activities)	Labor intensity,ac. h.
Section 1. Main stage	Analysis of literary sources, results of economic activity of the enterprise	72
	Processing and analysis of the received data	
	Registration of the final qualifying work	
Section 2. Final stage	Drawing up conclusions and findings - preliminary defense of the final qualifying work	36
Total labor intensity of the practice:		108

6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Classrooms equipped with multimedia projectors.

Computer classes of the ATI, the RUDN information library center with access to the RUDN electronic library system and the Internet.

Educational and scientific laboratories equipped with devices for practical classes

7. INTERNSHIP LOCATION AND TIMELINE

Pre-graduation practice can be conducted both in RUDN structural divisions or in Moscow city organizations (stationary), and at bases located outside Moscow (visiting).

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

The internship dates correspond to the period specified in the academic calendar of the EP VO. The internship dates can be adjusted upon agreement with the Educational Policy Department and the Department of Organization of Internships and Employment of Students at RUDN University.

8. RESOURCES RECOMMENDED FOR INTERNSHIP

Main literature:

Vavilov, P.P. Plant growing / Vavilov, P.P. and. - M.: Kolos; 2nd edition, revised and enlarged, 2019. - 432 p.

Posypanov, G.S. Plant growing: textbook for universities / G.S. Posypanov [et al.]; edited by G.S. Posypanov. - M.: KolosS, 2017. - 612 p.

Further reading:

V. P. Popov. World plant growing. Publ. RUDN, M, 2007.

G. V. Ustimenko-Bakumovsky. Plant growing in the tropics and subtropics. Agropromizdat. M., 1989.

Plant growing. Ed. G. S. Posypanov. "Kolos". Moscow, 1997.

G. V. Korenev et al. Plant growing with the basics of selection and seed production. Agropromizdat. M., 1990

V. G. Pavlyukov. Practical training in tropical plant growing. Publ. UDN, M., 1988. G. G. Gataulina, M. G. Obyedkov. Practical training in plant growing. Publ. "Kolos", M., 2000.

Resources of the information and telecommunications network "Internet":

RUDN EBS and third-party EBSs, to which university students have access on the basis of concluded agreements:

- Electronic library system of RUDN: [site]. URL:<http://lib.rudn.ru/MegaPro/Web>
- Electronic library system "University Library Online": [site]. URL:<http://www.biblioclub.ru/>
- Educational platform "Urait": [website]. URL: <https://urait.ru/>
- Electronic Library System "Lan": [website]. URL: <https://e.lanbook.com/>
- Educational platform "Urait": [website]. URL: <https://urait.ru/>

Databases and search engines:

- Electronic fund of legal and normative-technical information: [website]. URL: <https://docs.cntd.ru/>
- Search engine "Yandex": [site]. URL: <https://yandex.ru/>
- Google Search Engine: [site]. URL: <https://www.google.com/>

Educational and methodological materials for internship:

Instructions on labor protection and fire safety during educational and industrial (including pre-graduation and research) practices,

implemented at the agrarian-technological institute (primary instruction).

Methodological instructions for students to fill out a diary and prepare a report on their practice.

9. 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.

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