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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**

Technological 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(s)

The purpose of conducting technological practice is to acquire professional competencies necessary for the formation of a systematic approach to research work in trainees and to ensure practical training of master's degree graduates for independent production activities in agricultural enterprises.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Conducting technological 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)*

<b>Cipher</b>	<b>Competence</b>	<b>Indicators of Competence Achievement</b>
UK-1	Capable of conducting searches, critical analysis of problematic situations based on a systems approach, and developing an action strategy	UK-1.1 Performs a search for the necessary information, its critical analysis and generalizes the results of the analysis to solve the assigned task UK-1.2 Uses a systematic approach to solve 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 the relationships of the participants in this activities
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 of their application 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 the work of the project participants UK-2.3 Suggests possible ways (algorithms) of implementing the project results into practice (or implements it) implementation)
UK-6	Able to determine and implement priorities of own activity and ways of its improvement based on self-assessment	UK-6.1 Assesses his/her resources and their limits (personal, situational, temporary), uses them optimally for the successful completion of the assigned task UK-6.2 Plans a professional trajectory taking into account the characteristics of both professional and other types activities and demands of the labor market
OPK-1	Capable of solving problems of development of the professional field activities and (or) organizations	OPK-1.2 Uses methods for solving problems of agronomy development based on search and

	based on the analysis of scientific and industrial achievements	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-6	Able to manage teams and organize production processes	OPK-6.2 Defines the tasks of the personnel of the structural unit, based on goals and strategy of the organization
OPK-7	Able to master the tools for working with large arrays of structured and unstructured data information, use modern digital methods of processing, analysis, interpretation and visualization of data in order to solve the tasks of professional and scientific research activities in the field of agronomy	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
PC-1	Capable of organizing experiments (field trials) to assess the effectiveness of innovative technologies (elements of technology), varieties and hybrids under 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 conducting experiments, mastering new research methods
PC-2	Capable of developing and implementing environmentally friendly safe methods and technologies for the production of high-quality crop products, taking into account the properties of agricultural landscapes and economic efficiency	PC-2.1 Determines the planned yield of agricultural crops taking into account the available natural and production resources using generally accepted calculation methods PC-2.2 Organizes quality control and safety of plant products PC-2.3 Justifies the specializations and types of grown products in agricultural organization
PC-3	Able to identify areas for improvement and increase the efficiency of crop production technologies	PC-3.1 Identifies promising areas for increasing the efficiency of crop production

based on scientific achievements, advanced experience of domestic and foreign manufacturers	PC-3.2 Carries out operational regulation of the course of production of plant products
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### 3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

Research practice is a compulsory part.

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 research 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*

<b>Cipher</b>	<b>Name of competence</b>	<b>Preceding disciplines/modules , practices</b>	<b>Further disciplines/modules , practices</b>
UK-1	Capable of conducting searches, critical analysis of problematic situations based on a systems approach, and developing an action strategy	Marketing / Marketing Management / Management Information Technology / Information technologies Soil Fertility Management / Soil Fertility Management	Pests and Diseases / Pests and Plant Diseases Postharvest Management / Postharvest processing
UK-2	Able to manage a project at all stages of its life cycle	Marketing / Marketing Management / Management Mechanization of Crop Production / Mechanization plant growing	Soil Fertility Management / Soil Fertility Management Crop Production / Crop Production
UK-6	Able to identify and implement one's own priorities activities and ways to improve them based on self-assessment		Undergraduate Practice / Pre-graduation practice
OPK-1	Capable of solving problems of development of the professional field activities and (or) organizations based on the analysis of scientific and industrial achievements	Soil Fertility Management / Soil Fertility Management Information Technology / Information technologies Crop Production / Crop Production	Pests and Diseases / Pests and Plant Diseases Postharvest Management / Postharvest processing
OPK-3	Able to use modern methods of problem solving in the development of new technologies in professional activities	Soil Fertility Management / Soil Fertility Management	Undergraduate Practice / Pre-graduation practice
OPK-6	Able to manage teams and organize production processes	Management / Management	Postharvest Management / Postharvest processing
OPK-7	Able to master the tools for working with large arrays of structured and unstructured information, and use modern digital processing methods,	Information Technology / Information technologies	Pests and Diseases / Pests and Plant Diseases Plant Protection / Plant Protection Undergraduate Practice / Pre-graduation practice

	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	Information Technology / Information technologies Crop Production / Crop production Mechanization of Crop Production / Mechanization plant growing Pests and Diseases /	Soil Fertility Management / Soil Fertility Management Pests and diseases of plants Breeding and Seed Production / Selection and seed production Plant Protection / Plant Protection
PC-2	Capable of developing and implementing environmentally friendly safe methods and technologies for the production of high-quality crop products, taking into account the properties of agricultural landscapes and economic efficiency	Crop Production / Crop Production	Pests and Diseases / Pests and Plant Diseases Plant Protection / Plant Protection
PC-3	Able to determine directions for improvement and increase in the efficiency of technologies for growing crop products based on scientific achievements, best practices of domestic and foreign manufacturers	Crop Production / Plant growing Breeding and Seed Production / Selection and seed production Postharvest Management / Postharvest processing	Plant Protection / Plant Protection Postharvest Management / Postharvest processing

#### 4. INTERNSHIP WORKLOAD

The total workload of research practice is 15 credit units (540 academic hours).

#### 5. INTERNSHIP CONTENTS

Name practice section	Section content (topics, types of practical activities)	Labor intensity, ac. h.
Section 1. Preparatory stage	Working meeting at the department	108
	Study and analysis of scientific sources on a selected topic, determination of the degree of its development in scientific literature;	
	Visit to the scientific library of the academy. Work in the library with the electronic library system, electronic educational resources, book supply maps, etc.	
	Adjustment of the research plan and experimental design together with the scientific supervisor	
	Selection and acquisition of necessary materials for the experiment (seeds, fertilizers, biological preparations) taking into account those available on the farm	

Section 2. Practical stage	Safety briefing at the workplace. Inspection of the farm and the place for laying the experiment	396
	Analysis of economic and research activities of a scientific institution (base economy)	
	Conducting research (laying down the experiment; conducting accompanying observations, records)	
	Testing the proposed hypothesis	
Section 3. Interim assessment	Presentation of the results of scientific research. Collection, processing and analysis of the collected materials and primary documentation	36
	Writing a report, preparing a presentation	
	Interview following the internship, checking the contents of the internship report	
Total labor intensity of the practice:		540

## 6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

The location of the technological internship and its specific content are determined by the specifics of the master's program in which the student is studying and his/her scientific interests. Depending on this, it can be conducted either at an enterprise (advanced farms of various forms of ownership), in an institution, organization, or in a structural division of the academy (experimental field of the faculty, branches of graduating departments, production departments of the faculty).

### 7. INTERNSHIP LOCATION AND TIMELINE

Research internships can be conducted both in RUDN structural divisions or in Moscow organizations (stationary), and at bases located outside of 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

*Resources of the information and telecommunications network "Internet":*

RUDN University Electronic Library System and third-party electronic library systems 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 briefing).

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.

**DEVELOPERS:**

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