

*Federal State Autonomous Educational establishment of higher education
RUDN-University*

Engineering Academy

Recommended by ICSS

PRACTICE PROGRAM

Type of Practice: Pedagogical-Teaching Practice

Recommended for the program track: 09.06.01 Informatics and computer engineering

Educational program specialization: Management in social and economic systems (engineering science):
strategic management

1. Practice objectives and learning outcomes

Aim develop teaching skills in the field of management in social and economic systems and related areas of technical knowledge in higher education; acquisition of skills of work in a scientific and pedagogical team.

Practice objectives:

- 1) To study educational technologies, methods and techniques for composing tasks, exercises, tests.
- 2) Master the basics of scientific and methodological and educational work, the skills of structuring and psychologically competent transformation of scientific knowledge into educational material.
- 3) Learn to systematize educational and educational tasks, oral and written presentation of the subject material.

2. Place of the practice in the structure of General Education Programme

The teaching practice belongs to the variable part of Block 2 of the curriculum. Table 1 shows the previous and subsequent components of the educational program aimed at the formation of competencies in accordance with the competence matrix of Education Programme of High Education Competence-based education.

Table No. 1

Preceding and subsequent courses, directed to the competences forming

№ п/п	Competence and its code	Preceding courses	Following courses
General professional competencies			
1	GPC-8	Foundations of Teaching Informatics and Computing Elements in Higher Education /	-
Professional competencies			
2	PC-1 PC-2	Foundations of Teaching Informatics and Computing Elements in Higher Education / Foreign Language /Russian as a foreign language in the field of professional communication	-

4. Practice form

The practice is carried out continuously, by allocating a continuous period of teaching time in the educational calendar schedule.

5. Place and time of the Pedagogical- teaching practice

The practice is conducted in the Department of Innovation Management in industrial sectors of the RUDN Engineering Academy, and is distributed. The time of the practice is set by the curriculum and the schedule of the educational process.

The student can come up with an initiative about the place of practice. The direction of the professional activity of the organization offered to students for practical training should correspond to the profile of the educational program and the types of professional activities for which the graduate of the program is preparing. The place of practical training must be agreed with the head of the department, followed (if a positive decision is made) by the conclusion of a corresponding contract with the professional organization proposed by the student.

Students with disabilities and / or belonging to the category of "disabled" undergo practical training in an accessible form in the laboratories of the university, as well as in specialized organizations with which relevant contracts have been concluded and which provide the opportunity (equipment, special means and infrastructure) to work with these categories of citizens.

6. Competencies formed by students as a result of practice

The learning outcomes of the course are special knowledge, abilities, relevant skills and experience, which will ensure the achievement of the planned results of mastering the educational program and will characterize the stages of the formation of the following competence:

- ready to teaching activities in basic educational programs of higher education (GPC -8)
- know the methodology of theoretical and experimental research in the field of informatics and computer technology, possession of the culture of scientific research in the field of informatics and computer technology, including the use of the latest information and communication technologies (PC-1);

- able to develop new research methods and their application in independent research activities in the field of informatics and computer technology, taking into account the rules of observance of copyright (PC-2);

7. Workload of the practice and forms of study work

General workload of the course is 15 credit units 540 academic hours).

academic hours

Form of study work	Total hours								
	Semester								Total
	1	2	3	4	5	6	7	8	
Class hours (total)	-	-	198	90	90	90	-	-	180
Including:									
Lectures	-	-	-	-	-	-	-	-	-
Practical classes (PC)	-	-	8	4	4	4	-	-	8
Self-study	-	-	190	86	86	86	-	-	172
Assessment	-	-	18	18	18	18	-	-	36
Total hours:	-	-	216	108	108	108	-	-	540
credits:	-	-	6	3	3	3	-	-	15

8. Content of the course

8.1. Course Units

№ п/п	Name of the practice part	Subject matter of the part
1	Organizational and preparatory	Receiving an individual task for research work from the internship supervisor Safety briefing in the workplace (laboratory and / or production)
2	Main	Performing an individual task for practice. Current control of the internship by the supervisor of the practice. Students keep a diary of their internship. Development of educational and methodological and reporting materials.
3	Reporting	Preparation of an practice report by students. Preparation for the defense of the practice report and the defense of the report (appraisal)

8.2. Types and scope of practice

academic hours

№ п/п	Name of the practice part	Lectures	Seminars	Self-study	Assessment	Total workload, hours
1	Organizational and preparatory	-	-	12	1	13
2	Main	-	15	336	60	411
3	Reporting	-	5	100	11	116
Total:		-	20	448	72	540

9. Educational, research and production technologies used in practice

During the internship, the following educational technologies are used:

- contact work of the student with the teacher, which consists in obtaining an individual task, passing an instruction, receiving consultations;
- other forms of educational work (educational activity), which include the main activity of the student to perform sections of the practice in accordance with the individual task, recommended methods and sources of literature, aimed at forming certain professional skills or experience of professional activity provided for by the practice program, as well as filling out current and reporting documentation, and preparing for the defense of the report on the internship.

During the internship, the following research and production technologies are used:

- mastering the methods of information analysis and interpretation of the results of research activities by students;
- performing written analytical and calculation tasks within the framework of practice with the use of recommended information sources;
- the use of various computer software products for graphic, analytical and / or industrial purposes (depending on the place of practice and the specifics of the task).

10. Technical Support

Classrooms with technical support	Address
Classroom for lectures, seminars and midterm assessments № 493 Projector Epson EH-TW5300 (LCD, 1080p 1920 x 1080, 2200Lm, 35000:1, 2 x HDMI, MHL Screen Draper Baronet NTSC (3:4) 244/96(8) 152*203 MW Set of specialized furniture	Moscow, Ordzhonikidze str., 3
Education and methodology Classroom for self-study № 345 Equipment and furniture: - personal computers with access to the Internet; - desks, chairs	Moscow, Ordzhonikidze str., 3

11. Study-methodical and information sources

Databases, reference systems and search engines:

- Electronic library system(ELS) РУДН and third-party ELS :
 - ELS RUDN <http://lib.rudn.ru/MegaPro/Web>
 - ELS «University Library Online» <http://www.biblioclub.ru>
 - ELS Юрайт <http://www.biblio-online.ru>
 - ELS «Student's consultant» www.studentlibrary.ru
 - ELS «Лань» <http://e.lanbook.com/>
- Websites of ministries, departments, services, production enterprises and companies whose activities are specialized for the course:
 - <http://economy.gov.ru/minec/main/> - website of the Ministry of Economic Development of the Russian Federation
- Databases and search engines:
 - electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
 - Yandex search engine <https://www.yandex.ru/>
 - search engine Google <https://www.google.ru/>
 - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

12. Educational methodology resources

Basic literature

- Бережнова Е.В., Краевский В.В. Основы учебно-исследовательской деятельности студентов. М., 2015. [Электронный ресурс]. – URL: <http://biblioclub.ru/index.php?page=book&id=485476> (06.05.2018).
- Богомазов Г.Г. Методика организации познавательной и исследовательской деятельности студентов. СПб., 2016. <http://biblioclub.ru/index.php?page=book&id=230540>
- М.Г. Лапаева, С.П. Лапаев; Министерство образования и науки Российской Федерации, Федеральное государственное бюджетное образовательное учреждение высшего образования «Оренбургский государственный университет». – Оренбург: ОГУ, 2017. – 249 с.: ил. – Библиогр. в кн. - ISBN 978-5-7410-1791-3; То же [Электронный ресурс]. – URL: <http://biblioclub.ru/index.php?page=book&id=485476> (06.05.2018).
- Управление качеством образования: Практико-ориентированная монография и методическое пособие/ Под ред. М.М. Поташника. М., 2016. <http://biblioclub.ru/index.php?page=book&id=230540>

Supplementary literature:

- Standard of High education 09.06.01 Informatics and computer engineering.
- Curriculum programs of disciplines in areas of training 03.27.04 Management in technical systems, 04/27/04 Management in technical systems, 06.09.01 Informatics and computer technology.

13. Forms of intermediate assessment (based on the results of practice)

During the internship, the practice supervisor carries out the current control of the student's performance. According to the results of the practice, an interim assessment is provided in the form of appraisal with final score (based on the results of the defense of the practice report).

The program was drawn up in accordance with the requirements of the OS of the RUDN.

Associate professor



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**Head of the educational program,
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