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**Federal State Autonomous Educational Institution of Higher Education
"Peoples' Friendship University of Russia"**

Engineering Academy

name of the main educational unit

PRACTICE PROGRAM

Introductory practice

(Name of practice)

Educational

(Type of practice: educational, production)

For the direction of training

27.04.05 Innovations Study

(Code and name of the direction of training)

Practical training of students is carried out as part of the implementation of the main professional educational program of higher education (ОП ВО)

Innovation management

(Name (orientation/profile ОП ВО))

Form of study: **Full-time**

1. PURPOSE OF THE PRACTICE

The purpose of the practice is to deepen, systematize and consolidate theoretical knowledge in the field of innovation management in organizational systems, professional skills in the field of innovation implementation, evaluation of their effectiveness, innovation management at various stages of the life cycle.

2. REQUIREMENTS FOR THE RESULTS OF TRAINING BASED ON THE RESULTS OF THE INTERNSHIP

The practice is aimed at the formation of the following competencies (parts of competencies) among students:

Table 2.1. The list of competencies formed in students during the practice (learning outcomes based on the results of practice)

Competence code	Name of competence	Indicators of competence achievement (within the framework of this practice)
OPIK-5	Being able to conduct patent research, determine the forms and methods of legal protection and protection of rights to the result of intellectual activity, dispose of the rights to them to solve problems in the field of development of science, techniques, and technology	OPIK-5.1. Solving problems related to the use of intellectual activity to create innovative products and services
OPIK-6	Being able to collect and analyze scientific and technical information, generalize domestic and foreign experience in the field of innovation management and building innovation ecosystems	OPIK-6.1. Independently find reliable sources of scientific and technical information OPIK-6.2. Demonstrate knowledge of methods of generalization of information in the field of innovation management
PIK-1	Being able to organize the work of a creative team to achieve a scientific goal, find and make managerial decisions, evaluate the quality and effectiveness of labor, costs and results of the scientific and production team	PIK-1.1. Demonstrate knowledge of the key principles of creative team management PIK-1.2. Use tools for assessing the quality and effectiveness of work
PIK-2	Being able to find (choose) optimal solutions when creating new high-tech products, taking into account the requirements of quality, cost, completion time, competitiveness and environmental safety	PIK-2.1. Demonstrate knowledge of assessing the quality, cost and competitiveness of an innovative product or service PIK-2.2. Use environmental safety assessment methods
PIK-3	Being able to develop a plan and program for the organization of innovative activities of the research and production unit, to carry out a feasibility study of innovative projects and programs	PIK-3.1. Use the methods of technical and economic design of innovative productions PIK-3.2. Develop a plan and program for organizing innovation activities

3. THE PLACE OF PRACTICE IN THE STRUCTURE OF EDUCATIONAL PROGRAM OF HIGHER EDUCATION OII BO

Practice refers to the variable component of the mandatory part of block 2 of the curriculum.

Within the framework of the educational program OII BO, students also master other disciplines and practices that contribute to achieving the planned learning outcomes based on the results of practical training:

Table 3.1. The list of components of the educational support OII BO, contributing to the achievement of the planned learning outcomes based on the results of the internship

Competence code	Name of competence	Previous disciplines/practices*	Subsequent disciplines/practices*
OPIK-5	Being able to conduct patent research, determine the forms and methods of legal protection and protection of rights to the result of intellectual activity, dispose of the rights to them to solve problems	Modern problems of control theory	-

	in the field of development of science, techniques, and technology		
ОПК-6	Being able to collect and analyze scientific and technical information, generalize domestic and foreign experience in the field of innovation management and building innovation ecosystems		Design of automated control systems, Innovative technologies of personnel management
ПК-1	Being able to organize the work of a creative team to achieve a scientific goal, find and make managerial decisions, evaluate the quality and effectiveness of labor, costs and results of the scientific and production team		Innovative technologies of personnel management, Educational Organizational and managerial practice
ПК-2	Being able to find (choose) optimal solutions when creating new high-tech products, taking into account the requirements of quality, cost, completion time, competitiveness and environmental safety		Managing the operational activities of high-tech industries, Environmental management at innovative enterprises/ Innovative technologies of environmental management in industries, Educational Organizational and managerial practice
ПК-3	Being able to develop a plan and program for the organization of innovative activities of the research and production unit, to carry out a feasibility study of innovative projects and programs		Operational controlling in an innovative enterprise, Educational Organizational and Managerial Practice

* - in accordance with the matrix of competencies and CVII OII BO

4. SCOPE OF PRACTICE

The total labor intensity of the practice is 3 credits (108 academic hours).

5. CONTENT OF PRACTICE

Table 5.1. Practice content*

Name of the practice section	Contents of the section (topics, types of practical activities)	Labor intensity, ac. h
Organizational and preparatory	Issuance by the head of the practice of individual tasks for practice	2
	Conducting an organizational meeting with students by the head of the practice and the initial briefing of students on safe working conditions and fire safety rules during the internship	2
Principal	Collection of data in accordance with the individual task for practice	36
	Analysis and processing of data obtained during the internship	36
Reporting	Preparation of the internship report	20
	Preparation and process for defending of the practice report	12
Altogether:		108

* - the content of the practice by sections and types of practical training is FULLY reflected in the student's report on the practice

6. MATERIAL AND TECHNICAL SUPPORT OF THE PRACTICE

To conduct the practice, classrooms equipped with specialized furniture, computerized workplaces, office equipment (projector, projector screen, printer / MFP, etc.), Internet access and software (Microsoft Windows operating system, office application package, including MS Office / Office 365, Teams, Skype) are used.

During the internship in a specialized organization, for meetings, consultations and interviews with students, as well as for independent work of students, premises are used that are equipped, similar to the above-mentioned classrooms, as well as the household premises, industrial equipment and devices necessary for the practice.

The above means of logistics of practice must pass the necessary verification (licensing, certification, attestation, verification) and must comply with sanitary and fire safety standards, as well as safety rules and

measures, incl. when working with certain production / laboratory equipment.

7. METHOD OF PRACTICE

The method of conducting the practice is stationary.

Practice is carried out in the Department of Innovation Management in Industries of the RUDN University Academy of Engineering. By decision of the head of the educational program of higher education, practice can also be carried out in specialized organizations in Moscow on the basis of an agreement on the practical training of students.

The terms of the internship correspond to the period specified in the calendar educational schedule of the educational program of higher education ОП ВО, and can be changed in coordination with the RUDN university educational policy department and the department for the organization of practices and employment of students in RUDN University.

8. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF PRACTICE

Main literature:

1) Брусакова И.А. Теоретическая инноватика. Учебник и практикум для бакалавриата и магистратуры под ред. И.А. Брусаковой. М.: Издательство Юрайт, 2019. 333 стр. Электронный ресурс. URL: / <https://urait.ru/book/teoreticheskaya-innovatika-473047>

2) Богомолова А.В. Управление инновациями: учебное пособие / Томск: Томский государственный университет систем управления и радиоэлектроники, 2012. 144 с. ISBN 978-5-4332-0048-7. Электронный ресурс. URL: <http://biblioclub.ru/index.php?page=book&id=208962>.

3) Винокурова Д.Ю. Инноватика как наука / Международный журнал гуманитарных и естественных наук, 2016. Электронный ресурс. URL: <http://intjournal.ru/innovatika-kak-nauka/>

4) Волкова В.Н., Э.А. Козловская, А.В. Логинова и др. Применение теории систем и системного анализа для развития теории инноваций: монография / Санкт-Петербургский государственный политехнический университет. 2013. 352 с. Электронный ресурс. URL: http://biblioclub.ru/index.php?page=book_red&id=363043.

5) Игошев Б.М. История технических инноваций: учебное пособие / Москва; Берлин: Директ-Медиа. 2015. 351 с. ISBN 978-5-4475-3068-6. Электронный ресурс. URL: <http://biblioclub.ru/index.php?page=book&id=272956> 2 экз.

6) Леонова М.В., Шинкевич А.И. Диффузия инноваций: модели и технологии управления: монография / Казань: Издательство КНИТУ. 2014. 163 с. ISBN 978-5-7882-1659-1. Электронный ресурс. URL: <http://biblioclub.ru/index.php?page=book&id=428034>.

7) Райская М.В. Теория инноваций и инновационных процессов: учебное пособие / Казань: Издательство КНИТУ. 2013. 273 с. Электронный ресурс. URL: <http://lib.rudn.ru/Web/BiblioSearch?query=>.

8) Бабич В.Н., Кремлёв А.Г. Инновационная модель бизнес-процесса: учебное пособие / Екатеринбург: Издательство Уральского университета. 2014. 185 с. ISBN 978-5-7996-1220-7. Электронный ресурс. URL: <http://lib.rudn.ru/Web/BiblioSearch?query=>.

9) Шляхтиченко Ю.В., Галимова М.П. Бизнес-модели в инноватике. Инновационная экономика: перспективы развития и совершенствования / Издательство: ЗАО «Университетская книга». 2018. Вып. 8 (34). С. 393-398. Электронный ресурс. URL: elibrary.ru/item.asp?id=36929097

Further reading:

1) Латов Ю.В., Латова Н.В. Российская технологическая инноватика в отечественных СМИ (на примере технопарков) / Мир России. Социология. Этнология. Издательство: Федеральное государственное автономное образовательное учреждение высшего образования «Национальный исследовательский университет «Высшая школа экономики», 2018. Вып. 4. Т. 27, С. 141-162. Электронный ресурс. URL: <https://cyberleninka.ru/article/n/rossiyskaya-tehnologicheskaya-innovatika-v-otchestvennyh-smi-na-primere-tehnoparkov/viewer>

2) Мясникова О.Ю., Сопилко Н.Ю. Экономический анализ / М.: РУДН, 2019. 129 с. Электронный ресурс. URL: <https://elibrary.ru/item.asp?id=37228769>.

3) Плохих Ю.В., Храпова Е.В., Кулик Н.А. и др. / Промышленные технологии и инновации: учебное пособие / Омск: Издательство ОмГТУ, 2017. 139 с. Электронный ресурс. URL: https://www.omgtu.ru/general_information/institutes/institute-of-design-and-technology/faculty-of-eco-

nomics-and-service-technologies/the-department-of-economics-and-management/Iz-daniya/%D0%9F%D0%BB%D0%BE%D1%85%D0%B8%D1%85%20%D0%AE.%20%D0%92.,%20%D0%9A%D1%83%D0%BB%D0%B8%D0%BA%20%D0%9D.%D0%90.,%20%D0%A5%D1%80%D0%B0%D0%BF%D0%BE%D0%B2%D0%B0%20%D0%95.%D0%92.,%20%D0%A5%D0%B0%D1%80%D0%B8%D0%BD%D0%B0%20%D0%9B.%D0%98.,%20%D0%A7%D0%B8%D0%B6%D0%B8%D0%BA%20%D0%92.%D0%9F.%20%D0%9F%D1%80%D0%BE%D0%BC%D1%8B%D1%88%D0%BB%D0%B5%D0%BD%D0%BD%D1%8B%D0%B5%20%D1%82%D0%B5%D1%85%D0%BD%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D0%B8%20%D0%B8%20%D0%B8%D0%BD%D0%BD%D0%BE%D0%B2%D0%B0%D1%86%D0%B8%D0%B8.pdf

Resources of the information and telecommunication network "Internet":

1) Electronic library system (EBS) of RUDN University and third-party EBS, to which university students have access on the basis of concluded contracts:

- ЭБС РУДН <http://lib.rudn.ru/MegaPro/Web>
- ЭБС «Университетская библиотека онлайн» <http://www.biblioclub.ru>
- ЭБС «Юрайт» <http://www.biblio-online.ru>
- ЭБС «Консультант студента» www.studentlibrary.ru
- ЭБС «Лань» <http://e.lanbook.com/>
- ЭБС «Троицкий мост»

2) Databases and search engines:

- electronic fund of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine <https://www.yandex.ru/>
- Google search engine <https://www.google.ru/>
- abstract database SCOPUS <http://www.elsevier.com/locate/scopus/>

Specialized program support:

The use of specialized software is not provided.

Educational and methodical materials for internship, filling out a diary and issuing a report on practice:*

- 1) Rules of safe working conditions and fire safety during the passage of the "Pre-diploma practice" (primary instruction).
- 2) Methodological recommendations for filling out a diary for students and issuing a report on practice.

* - all educational and methodological materials for internship are placed in accordance with the current procedure on the internship page in the telecommunications educational and information system (TUIS) of RUDN University

9. EVALUATION MATERIALS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES ON THE RESULTS OF PRACTICE

Assessment materials and a point-rating system* for assessing the level of formation of competencies (part of competencies) based on the results of the internship are presented in the Appendix to this Internship Program.

* - ОМ и БРС are formed on the basis of the requirements of the relevant local regulatory act of the RUDN University

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