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

RUDN University

Academy of Engineering

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

INTERNSHIP SYLLABUS

Introductory

internship title

Academic

internship type

Recommended by the Didactic Council for the Education Field of:

27.04.05 Innovatics

field of studies / speciality code and title

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

Digital Transformation in Production Management

higher education programme profile/specialisation title

1. INTERNSHIP GOAL

The goal 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 LEARNING OUTCOMES

The internship implementation is aimed at the development of the following competences (competences in part):

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-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	GPC-5.1. Solving problems related to the use of intellectual activity to create innovative products and services
GPC-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	GPC-6.1. Independently find reliable sources of scientific and technical information GPC-6.2. Demonstrate knowledge of methods of generalization of information in the field of innovation management
PC-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	PC-1.1. Demonstrate knowledge of the key principles of creative team management PC-1.2. Use tools for assessing the quality and effectiveness of work
PC-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	PC-2.1. Demonstrate knowledge of assessing the quality, cost and competitiveness of an innovative product or service PC-2.2. Use environmental safety assessment methods
PC-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	PC-3.1. Use the methods of technical and economic design of innovative productions PC-3.2. Develop a plan and program for organizing innovation activities

3. Internship IN HIGHER EDUCATION PROGRAMME STRUCTURE

The internship refers to the core component of (B2) block of the higher educational programme curriculum. The core component includes all introductory field internships.

Within the higher education programme students also master other disciplines and internships that contribute to the achievement of the expected learning outcomes as results of the internship.

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.

Competence code	Competence descriptor	Previous courses / modules, internships	Subsequent courses / modules, internships
GPC-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,	Modern problems of control theory	-

	techniques, and technology		
GPC-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
PC-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
PC-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
PC-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

4. INTERNSHIP WORKLOAD

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

5. INTERNSHIP CONTENTS

*Table 5.1. Internship contents**

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 / М.: Изд-во Юрайт, 2019. 333 стр. <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. <http://biblioclub.ru/index.php?page=book&id=208962>.

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

4) Волкова В.Н., Козловская Э.А., Логинова А.В. и др. Применение теории систем и системного анализа для развития теории инноваций: монография / Санкт-Петербургский гос. политехнический университет. 2013. 352 с. 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. <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: Изд-во КНИТУ. 2014. 163 с. <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. <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. <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. 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. <https://cyberleninka.ru/article/n/rossiyskaya-tehnologicheskaya-innovatika-v-otechestvennyh-smi-na-primere-tehnoparkov/viewer>

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

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.elsevierscience.ru/products/scopus/>

The training toolkit and guidelines for a student to do an internship, keep an internship diary and write an internship report:*

1. Safety regulations to do the internship (safety awareness briefing).

2. Machinery and principles of operation of technological production equipment used by students during their internship; process flow charts, regulations, etc. (if necessary).

3. Guidelines for keeping an internship diary and writing an internship report.

* The training toolkit and guidelines for the internship are placed on the internship page in the university telecommunication training and information system under the set procedure.

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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