

Документ подписан простой электронной подписью
Информация о владельце:
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Должность: Ректор
Дата подписания: 21.05.2026 17:38:47
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

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

Institute of Medicine

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

INTERNSHIP SYLLABUS

Observing and Assisting a Dentist (Operative Dentistry and Endodontics)

internship title

productive

internship type

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

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

Dentistry

higher education programme profile/specialisation title

1. INTERNSHIP GOAL(s)

The goal of the Internship "Observing and Assisting a Dentist (Operative Dentistry and Endodontics)" is to acquire the formed practical skills and abilities.

In the process of examination, diagnostic, therapeutic, preventive measures in patients with diseases of carious and non-carious origin, complicated forms of dental caries, periodontal diseases, students fully master competencies in the field of professional activity.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The internship implementation is aimed at the development of the following competences (competences in part): GPC-6, GPC-9, GPC-11, PC-1, PC-2, PC-5, PC-6

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-6	GPC-6. Being able to organize patient care, provide primary health care, arrange work and make professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in foci of mass destruction	GPC-6.1. Mastering the algorithm for providing first aid in emergency conditions, including in extreme conditions and foci of mass destruction. GPC-6.2. Being able to identify the conditions which require emergency medical care, including clinical signs of sudden cessation of blood circulation and respiration. GPC-6.3. Being able to provide emergency medical care to patients in conditions that pose a threat to the life of a patient, including clinical death (cessation of the vital bodily functions (blood circulation and (or) breathing).
GPC-9	GPC-9. Being able to implement the principles of quality management in professional activity	GPC-9.1. Being able to perform professional activity of a due quality. GPC-9.2. Being able to analyse and critically assess the professional activity quality according to the target values. GPC-9.3. Being able to develop a plan of organizational and methodical events to achieve the proper quality level of professional activity.
GPC-11	GPC-11. Being able to prepare and apply scientific, research, development and production, design, organizational, management and regulatory documentation in the healthcare system	GPC-11.1. Being able to prepare scientific, research, development and production, design, organizational, management and regulatory documentation in accordance with the area of professional activity and the current requirements for their execution. GPC-11.2. Being able to apply scientific, research, development and production, design, organizational, management and regulatory documentation within the framework of their professional activities.
PC-1	PC-1. Being able to provide emergency or	PC-1.1. Being able to assess the condition of a patient who needs emergency or urgent medical care. PC-1.2. Being able to recognize conditions that arise

Competence code	Competence descriptor	Competence formation indicators (within this course)
	urgent medical care to a patient	<p>from sudden acute diseases, exacerbation of chronic diseases without obvious signs of a threat to the patient's life and which require emergency medical care.</p> <p>PC-1.3. Being able to provide emergency medical care to patients with sudden acute diseases, conditions, exacerbation of chronic diseases without obvious signs of a threat to the patient's life.</p> <p>PC-1.4. Being able to recognize conditions which pose a threat to the patient's life, including conditions of clinical death (cessation of the vital bodily functions (blood circulation and/or respiration) which require emergency medical care.</p> <p>PC-1.5. Being able to provide emergency medical care to patients in conditions which pose a threat to the patient's life, including clinical death (cessation of the vital bodily functions (blood circulation and/or respiration).</p> <p>PC-1.6. Being able to use drugs and medical devices when providing medical care in emergency or urgent forms.</p>
PC-2	PC-2. Being able to examine a patient in order to determine a diagnosis	<p>PC-2.1. Mastering the skills to collect complaints, anamnesis of the patient's life and disease, as well as conduct a complete physical examination of the patient (examination, palpation, percussion, auscultation).</p> <p>PC-2.2. Being able to make a preliminary diagnosis and make up a plan of laboratory and instrumental examinations of a patient.</p> <p>PC-2.3. Being able to refer a patient to a laboratory examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the medical care standards.</p> <p>PC-2.4. Being able to refer a patient to an instrumental examination in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.5. Being able to refer a patient to consult with a medical specialist if there is a medical indication in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.6. Being able to refer a patient to be provided with specialized medical care in an inpatient setting or in a day hospital in case there are medical indications in accordance with the current procedures for the provision of medical care, clinical guidelines</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p>(treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-2.7. Being able to carry out differential diagnosis with other diseases/conditions, including the urgent ones, as well as to make a diagnosis taking into account the current international statistical classification of diseases and problems related to health (ICD).</p>
PC-5	<p>PC-5. Being able to carry out preventive measures and measures to promote a healthy lifestyle and sanitary and hygiene education among population and monitor their effectiveness</p>	<p>PC-5.1. Being able to organize and conduct medical examinations taking into account age, health status, profession in accordance with applicable legislative acts and other documents.</p> <p>PC-5.2. Being able to organize and monitor the immunization of the adult population against infectious diseases in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-5.3. Being able to carry out medical examination of the adult population aimed at early detection of chronic noncommunicable diseases and the main risk factors for their development in accordance with the current legislative acts and other documents.</p> <p>PC-5.4. Being able to carry out follow-up care of patients with diagnosed chronic noncommunicable diseases.</p> <p>PC-5.5. Being able to prescribe preventive measures to patients taking into account risk factors in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care taking into account the standards of medical care.</p> <p>PC-5.6. Being able to monitor observing preventive measures.</p> <p>PC-5.7. Being able to determine medical indications to introduce restrictive measures (quarantine) and indications for referral to a medical specialist in the event of infectious (parasitic) diseases.</p> <p>PC-5.8. Being able to issue and send an emergency notification to the territorial body of the Federal Service for Surveillance on Consumer Rights Protection and Human Wellbeing when an infectious or occupational disease is detected.</p> <p>PC-5.9. Being able to carry out anti-epidemic measures in the event of the occurrence of a focus of infection, including quarantine measures when especially dangerous (quarantine) infectious diseases are detected.</p> <p>PC-5.10. Being able to develop healthy lifestyle programmes, including the ones to reduce alcohol</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
		and tobacco consumption, prevent and combat non-medical use of narcotic drugs and psychotropic substances. PC-5.11. Being able to assess the effectiveness of preventive patient care.
PC-6	PC-6. Being able to keep medical records and organize the activities of the nursing staff	PC-6.1. Being able to draw up a work plan and report on their work, issue a passport for a healthcare (therapeutic) area. PC-6.2. Being able to analyze morbidity, disability and mortality rates to characterize the health of the registered population. PC-6.3. Being able to keep medical records, including in the electronic form. PC-6.4. Being able to monitor the performance of official duties by a district nurse and other medical workers at the disposal. PC-6.5. Being able to provide internal control of quality and safety of medical activities within the scope of employment responsibilities.

3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

The internship refers to the core/variable/elective* component of (B2) block of the higher educational programme curriculum.

* Underline whatever applicable. The core component includes all introductory field internships, the variable component includes all advanced field internships, except for research and pre-graduate types of the internship. The elective module includes all research and pre-graduation types of the internship (if any).

Within the higher education programme students also master other disciplines (modules) and / or 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-6	GPC-6. Being able to organize patient care, provide primary health care, arrange work and	B1.O.17 - Human Anatomy of Head and Neck B1.O.25 - Pathophysiology	B1.O.53 - Gnathology and Temporomandibular Joint's Functional Diagnostics

	make professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in foci of mass destruction	<p>y - Pathophysiology of Head and Neck B1.O.21 - Immunology, Clinical immunology B1.O.10 - Psychology, Pedagogy B1.B.07 - Medical Genetics in Dentistry</p>	
GPC-9	GPC-9. Being able to implement the principles of quality management in professional activity	<p>B1.O.02 - Bioethics B1.O.03 - Introduction to Specialty B1.O.06 - History of Medicine B2.O.02 (U) - Practice for Obtaining the First Professional Skills in the Positions of Nursing Staff (Observing and Assisting a Registered Nurse) B2.O.03 (P) - Observing and Assisting a Dentist (Hygiene)</p>	<p>B3.01 - Preparation for and Passing the State Exam B3.01.01 (G) - State Exam (Computer Testing) B3.01.02(D) - State Exam (Interdisciplinary Interview)</p>
GPC-11	GPC-11. Being able to prepare and apply scientific, research, development	<p>B1.O.47 - Operative Dentistry: Cariology and Hard Tissues Diseases</p>	<p>B1.O.49 - Gerodontology and Oral Mucosa Diseases</p>

	and production, design, organizational , management and regulatory documentation in the healthcare system	B1.O.48 - Endodontics B1.O.50 - Periodontology	B1.V.DV.04.01 - Modern Endodontics B1.V.DV.04.02 - Aesthetic Restoration B3.01 - Preparation for and Passing the State Exam B3.01.01 (G) - State Exam (Computer Testing) B3.01.02(D) - State Exam (Interdisciplinary Interview)
PC-1	PC-1. Being able to provide emergency or urgent medical care to a patient	B1.O.29 - Internal Medicine B1.O.21 - Immunology, Clinical Immunology B1.O.46 - Propaedeutics of Dental Diseases B1.O.47 - Operative Dentistry: Cariology and Hard Tissues Diseases B1.O.48 - Endodontics B1.O.50 - Periodontology B1.O.51 - Local Anesthesia and	B1.O.49 - Gerodontics and Oral Mucosa Diseases B1.O.53 - Gnathology and Temporomandibular Joint's Functional Diagnostics B1.V.DV.04.01 - Modern Endodontics B3.01 - Preparation for and Passing the State Exam B3.01.01 (G) - State Exam (Computer Testing)

		Anesthesiology in Dentistry	B3.01.02(D) - State Exam (Interdisciplinary Interview)
PC-2	PC-2. Being able to examine a patient in order to determine a diagnosis	B1.O.34 - Health and Safety B1.O.21 - Immunology, Clinical Immunology B1.O.47 - Operative Dentistry: Cariology and Hard Tissues Diseases B1.O.48 - Endodontics B1.O.50 - Periodontology B1.O.51 - Local Anesthesia and Anesthesiology in Dentistry B1.V.07- Medical Genetics in Dentistry B1.V.08- Medical Rehabilitation B1.V.DV.03.01 - Three- dimensional x- ray Diagnostic Methods in Dentistry FTD.V.06 - Cone Beam	B1.O.49 - Gerodontology and Oral Mucosa Diseases B1.O.53 - Gnathology and Temporo- Mandibular Joint's Functional Diagnostics B1.V.DV.04.01 - Modern Endodontics B1.V.DV.04.02 - Aesthetic Restoration B2.O.08 (P) - Observing and Assisting a Dentist (General Dentistry), Including Research Practice B1.V.11 - Dental Oncology and Radiotherapy B3.01 - Preparation for and Passing the State Exam B3.01.01 (G) - State Exam (Computer Testing)

		<p>Computed Tomography in the Diagnosis Planning and Evaluation of the Effectiveness of Dental Solutions</p> <p>B1.O.25 - Pathophysiology - Pathophysiology of Head and Neck</p>	<p>B3.01.02(D) - State Exam (Interdisciplinary Interview)</p>
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4. INTERNSHIP WORKLOAD

The total workload of the internship is 3 credits (108 academic hours).

5. INTERNSHIP CONTENTS

*Table 5.1. Internship contents**

Modules	Contents (topics, types of practical activities)	Workload, academic hours
1. Organization and equipment of the dental office	Complete a safety briefing.	4,5
	Prepare the dental unit, handpieces (turbine, mechanical).	
	Prepare a workplace, a tray with tools for inspection.	
	Prepare a system for isolating the working field, a photopolymerization lamp.	
2. Examination of a dental patient at a therapeutic appointment	Establish contact and identify the patient's identity, obtain informed voluntary consent of the patient.	8

Modules	Contents (topics, types of practical activities)	Workload, academic hours
	Collect complaints, anamnesis of life, anamnesis of present illness.	
	Measure blood pressure, pulse rate, body temperature.	
	Determine the configuration of the face, color, condition of the skin and visible mucous membranes.	
	Palpate regional lymph nodes. Assess the degree of mouth opening and the condition of the temporomandibular joint.	
	Examine the vestibule of the oral cavity. Determine occlusion, examine the dentition, the actual oral cavity.	
3. Evaluation and correction of hygienic and periodontal status in a patient	Conduct an index assessment of hygiene and periodontal status of the patient.	15
	Pick up personal hygiene products.	
	Train and conduct hygiene control.	
	Carry out professional hygiene.	
4. Additional examination methods	Analyze diagnostic and control radiographs.	5
	Carry out EDI, thermal tests, laser diagnostics (Diagnocam), vital drying and staining of teeth.	

Modules	Contents (topics, types of practical activities)	Workload, academic hours
<p>1. Treatment of caries and non-carious lesions of the teeth</p>	<p>Prepare application anesthesia, carpool syringe, anesthetic for anesthesia of teeth.</p>	<p>15</p>
	<p>Prepare burs, caries marker, antiseptic for preparation and cavity formation</p>	
	<p>Prepare medical pad, liner, pad cement</p>	
	<p>Perform an adhesive protocol, prepare a composite for filling teeth</p>	
	<p>Prepare material for sealing fissures.</p>	
	<p>Prepare a drug for remineralizing therapy.</p>	
	<p>Prepare the "Icon" system for infiltration of hard dental tissues. Prepare a system for whitening and means for pre-isolation of teeth (vital, devital).</p>	
<p>2. Endodontic dental treatment</p>	<p>Prepare application anesthesia, carpool syringe, anesthetic for anesthesia of teeth.</p>	<p>12</p>
	<p>Collect the necessary tools, devices, accessories, solutions of medicines, lubricant, preparation for drying and degreasing root canals, paper absorbers.</p>	
	<p>Prepare sealer and filler for root canal filling.</p>	

Modules	Contents (topics, types of practical activities)	Workload, academic hours
7. Finishing fillings	Prepare articulating paper, rubber heads, discs, rotary brushes, polishing pastes, strips, dental floss	2,5
8. Treatment and prevention of periodontal diseases.	Prepare means for removing dental plaque hardware (ultrasonic scaler, Air flow, Piezon-master, Vector) and manual (curettes, scalers, rasps, excavators).	9
	Prepare polishing brushes, pastes, strips, antiseptics, medicinal ointments, films, gels, remineralizing agents.	
9. Filling out outpatient cards	Entering the data of the survey, examination, basic and additional methods of examination, a comprehensive treatment plan, diaries of visits, recommendations.	16
10. Preparation of visual materials for dental education	Conducting conversations about bad habits, their impact on the condition of teeth and periodontal tissues, the benefits of a rational, balanced diet, the role of drinking water, measures to prevent caries, its complicated forms, periodontal diseases, as well as other sanitary and educational work.	3
Writing an internship report		18
Preparing for defence and defending the internship report		9
TOTAL:		108

* The contents of internship through modules and types of practical activities shall be FULLY reflected in the student's internship report.

6. INTERNSHIP EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

The infrastructure and technical support necessary for the internship implementation include: laboratories/ specially equipped classrooms/ polygons/ measuring and computing complexes/

vehicles/ industrial equipment and devices/ household premises that comply with current sanitary and fire safety standards.

The SAFETY REQUIREMENTS at the enterprise, workplace (including the department of RUDN University) and during the work with certain production/laboratory equipment incorporate/ include the following (to be specified)....

7. INTERNSHIP LOCATION AND TIMELINE

The internship can be carried out at the structural divisions of RUDN University (at Moscow-based organisations, as well as those located outside Moscow.

The internship at an external organisation (outside RUDN University) is legally arranged on the grounds of an appropriate agreement, which specifies the terms, place and conditions for an internship implementation at the organisation.

The period of the internship, as a rule, corresponds to the period indicated in the training calendar of the higher education programme. However, the period of the internship can be rescheduled upon the agreement with the Department of Educational Policy and the Department for the Organization of Internship and Employment of RUDN students.

Structure and content of industrial practice

№ п/п	Sections (stages) of practice	Types of industrial work, in practice, including independent work of students and labor intensity (in hours)			Forms of current control
		Lectures (instructing on equipment safety)	Practical Zan (Execution of production tasks)	Sam.rab (Systematization of knowledge filling out reporting forms)	
1	Preparatory stage	2	6	6	Interview
2	Main stage: "Work as an assistant general practitioner"		74	6	Evaluation of practical skills
3					Evaluation of practical skills
3.					Evaluation of practical skills
4.					Evaluation of practical skills
5.	Preparation of a practice report	-	-	6	Evaluation of practical skills

6.	Control	-	-	10	Interview
7.	TOTAL	2	74	30	108

Educational, research and scientific-production technologies used in manufacturing practice.

The organization of the production practice "Dentist assistant (general dentist)" in modern conditions should be based on innovative psychological and pedagogical approaches and technologies aimed at improving the efficiency of teaching and the quality of student training.

The practice provides the acquisition and consolidation of the necessary skills, the formation of professional competencies, readiness for independent and individual work, the adoption of responsible decisions within the framework of professional competence.

Working with patients creates not only students' readiness for independent and individual work, making responsible decisions within their professional competence, but also the ability to scientifically analyze medical and socially significant problems, readiness for logical analysis of various kinds of reasoning, skills in communication, argumentation, conducting controversy and discussion.

Independent work of students is approximately 1/3 of the total workload of practice in the discipline and includes: keeping a practice diary, filling out a certification sheet, working with literature, preparing conversations, lectures, reports, presentations on general practice dentistry, making materials on dental education (memos, reports, health bulletins, questionnaires, presentations, etc.). This form of work contributes to the development of cognitive activity, creative thinking of students, instills the skills of independent information retrieval, and also forms the ability and readiness for self-improvement, self-realization and creative adaptation.

At the end of the practice is held offset, which includes an assessment of practical skills and interviews.

During the internship, the student should pay special attention to improving the process of examining the patient, optimizing it, applying modern techniques, developing clinical thinking, and the ability for differential diagnosis of dental diseases.

Also during the internship, students are introduced to modern methods of laser diagnosis of caries; modern methods of diagnosis and visualization of the root canal topography.

8. RESOURCES RECOMMENDED FOR INTERNSHIP

Main readings:

1. Therapeutic dentistry [Text]: Textbook / O.O. Yanushevich [i dr.]. - 3rd ed., revised. and additional - M.: GEOTAR-Media, 2016. - 760 p.
2. Therapeutic dentistry [Electronic resource]: textbook. In 3 hours. Part 1: Diseases of the teeth / E.A. Volkov, O.O. Yanushevich. - Moscow: GEOTAR-Media, 2016. - 167 p.
3. Maksimovsky Yu.M. Therapeutic dentistry. Cariesology and diseases of hard tissues of teeth. Endodontics [Electronic resource]: Guide to practical exercises: study guide / Yu.M. Maksimovsky, A.V. Mitronin; ed. Yu.M. Maksimovsky. - Moscow: GEOTAR-Media, 2016. - 480 p.
4. <http://www.studmedlib.ru/book/ISBN9785970435892.html>

5. Therapeutic dentistry: national guidelines / ed. L.A. Dmitrieva, Yu.M. Maksimovsky-M.: GEOTAR-Media, 2009-912s.- (Series "National Guidelines").
6. Bazikyan, E.A. Propaedeutic dentistry: textbook / E.A. Bazikyan. [and etc.]; ed. E.A. Bazikyan, O.O. Yanushevich. - 2nd ed., revised. add. - Moscow: GEOTAR-Media, 2016. - 640 p.
7. Phantom course of therapeutic dentistry [Text]: textbook / A.I. Nikolaev, L.M. Tsepov. – 5th ed. - Moscow: MEDpress-inform, 2015.
8. Therapeutic dentistry [Electronic resource]: Textbook in 3 parts. Part 2: Periodontal disease / Ed. G.M. Barera. - M.: GEOTAR-Media, 2015.

Additional literature:

1. Examination of a dental patient. Basic and additional methods: account. Allowance / A.I. Bulgakov, A.Sh. Galikeeva, I.V. Valeev et al. - Ufa: Publishing house of GBOUVPOBGMU of the Ministry of Health and Social Development of Russia, 2012. - 87 p.
2. Rabinovich S.A., Stosh V.I., Sokhov S.T. etc. Prevention of general somatic complications. Algorithm of urgent measures in a dental office. – M.: MGMSU, 2012. – 89 p.
3. X-ray diagnostics [Electronic resource]: presentation /A.Zh. Petrikas. – Tver: [6. AND.]. 2011 - 169 slides. (47 MB)
4. Anesthesia in endodontics [Text]: textbook / A.Zh. Petrikas. - Moscow: Medical Information Agency, 2009 - 211 p.

Internet sources

1. Electronic libraries (EL) of RUDN University and other institutions, to which university students have access on the basis of concluded agreements:

- RUDN Electronic Library System (RUDN ELS) <http://lib.rudn.ru/MegaPro/Web>
- EL "University Library Online" <http://www.biblioclub.ru>
- EL "Yurayt" <http://www.biblio-online.ru>
- EL "Student Consultant" www.studentlibrary.ru
- EL "Lan" <http://e.lanbook.com/>
- EL "Trinity Bridge"
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2. Databases and search engines:

- electronic foundation of legal and normative-technical documentation <http://docs.cntd.ru/>
- Yandex search engine [https:// www .yandex.ru/](https://www.yandex.ru/)
- Google search engine <https://www.google.ru/>
- Scopus abstract database <http://www.elsevierscience.ru/products/scopus/>
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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.

8. 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 (GPC-6, GPC-9, GPC-11, PC-1, PC-2, PC-5, PC-6) formation as the internship results are specified in the Appendix to the internship syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

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