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**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): UC-1, GPC-1, GPC-2, GPC-5, PC-1.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
UC-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy	UC-1.1 Analyze the problem situation as a system, identifying its components and the relationships between them
GPC-1	The ability to implement moral and legal norms, ethical and deontological principles in professional activities	GPC-1.1 Observe the basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical practice

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p data-bbox="730 271 1455 651">GPC-1.2 Apply ethical norms and principles of behavior of a medical worker in the performance of their professional duties; knowledge of modern legislation in the field of healthcare in solving problems of professional activity; apply the rules and norms of interaction between a doctor and colleagues and patients (their legal representatives)</p> <p data-bbox="730 786 1455 1088">GPC-1.3 Have practical experience in solving standard problems of professional activity based on ethical norms and deontological principles when interacting with colleagues and patients (their legal representatives), knowledge of the legal aspects of medical practice</p>
GPC-2	The ability to analyze the results of one's own activities to prevent professional errors	<p data-bbox="730 1149 1455 1350">GPC-2.1 Analyze the causes of professional errors, adverse treatment outcomes and conflict situations</p> <p data-bbox="730 1373 1455 1574">GPC-2.3 Evaluate the effectiveness of preventive measures aimed at preventing professional errors, adverse outcomes and conflict situations in dentistry</p>
GPC-5	The ability to conduct a patient examination in order to establish a diagnosis in solving professional problems	<p data-bbox="730 1641 1455 1888">GPC-5.1 Collect anamnesis by analyzing patient complaints, conducting a physical examination at a dental appointment</p> <p data-bbox="730 1955 1455 2000">GPC-5.2</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p data-bbox="738 241 1406 365">Formulate a preliminary diagnosis and draw up a plan for laboratory and instrumental examinations of a dental patient</p> <p data-bbox="738 506 1401 629">GPC-5.3 Prepare medical documentation of the dental patient in accordance with regulatory requirements</p> <p data-bbox="738 770 1385 893">GPC-5.8 Conduct differential diagnosis with other diseases/conditions, including emergencies</p> <p data-bbox="738 1084 1331 1252">GPC-5.9 Make a diagnosis based on the current international statistical classification of diseases and related health problems</p>
PC-1	Ability to conduct a patient examination in order to establish a diagnosis	<p data-bbox="738 1290 1406 1458">PC-1.1 Conduct initial and/or re-examination of the patient in order to establish a preliminary diagnosis</p> <p data-bbox="738 1536 1425 1783">PC-1.2 Receive information from patients (their relatives/legal representatives), conduct a survey of patients on the subject of general health, identify concomitant diseases in order to establish a preliminary diagnosis</p>

Competence code	Competence descriptor	Competence formation indicators (within this course)
		<p>PC-1.3 Detect dental and facial anomalies, deformities and prerequisites for their development, defects in crowns and dentitions in patients based on examination of the patient, laboratory, instrumental, as well as additional examinations in order to establish a preliminary / final diagnosis</p>
		<p>PC-1.4 Identify risk factors for oncopathology in patients (including various background processes, precancerous conditions) based on laboratory, instrumental and additional examinations in order to establish a preliminary/final diagnosis</p>
		<p>PC-1.5 Establish a preliminary / final diagnosis based on the examination of the patient, laboratory and instrumental research</p>

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*
UC-1	The ability to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy	B1.O.17 - Human Anatomy - Anatomy of Head and Neck B1.O.25 - Pathophysiology - Pathophysiology of Head and Neck B1.O.21 - Immunology, Clinical immunology B1.O.10 - Psychology, Pedagogy B1.B.07 - Medical Genetics in Dentistry	B1.O.53 - Gnathology and Temporo-Mandibular Joint's Functional Diagnostics

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
GPC-1	The ability to implement moral and legal norms, ethical and deontological principles in professional activities	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)	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)
GPC-2	The ability to analyze the results of one's own activities to prevent professional errors	B1.O.47 - Operative Dentistry: Cariology and Hard Tissues Diseases B1.O.48 - Endodontics B1.O.50 - Periodontology	B1.O.49 - Gerodontics and Oral Mucosa Diseases 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)

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
GPC-5	The ability to conduct a patient examination in order to establish a diagnosis in solving professional problems	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 Anesthesiology in Dentistry	B1.O.49 - Gerodontology 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) B3.01.02(D) - State Exam (Interdisciplinary Interview)

Competence code	Competence descriptor	Previous courses/modules, internships*	Subsequent courses/modules, internships*
PC-1	Ability to conduct a patient examination in order to establish 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 Computed Tomography in the Diagnosis Planning and Evaluation of the Effectiveness of Dental Solutions B1.O.25 - Pathophysiology - Pathophysiology of Head and Neck	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) B3.01.02(D) - State Exam (Interdisciplinary Interview)

* To be filled in according with the competence matrix of the higher education programme.

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
	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.	

Modules	Contents (topics, types of practical activities)	Workload, academic hours
	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.	
1. Treatment of caries and non-carious lesions of the teeth	Prepare application anesthesia, carpool syringe, anesthetic for anesthesia of teeth.	15
	Prepare burs, caries marker, antiseptic for preparation and cavity formation	
	Prepare medical pad, liner, pad cement	
	Perform an adhesive protocol, prepare a composite for filling teeth	

Modules	Contents (topics, types of practical activities)	Workload, academic hours
	<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>	
2. Endodontic dental treatment	<p>Prepare application anesthesia, carpool syringe, anesthetic for anesthesia of teeth.</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>	12
7. Finishing fillings	<p>Prepare articulating paper, rubber heads, discs, rotary brushes, polishing pastes, strips, dental floss</p>	2,5
8. Treatment and prevention of periodontal diseases.	<p>Prepare means for removing dental plaque hardware (ultrasonic scaler, Air flow, Piezon-master, Vector) and manual (curettes, scalers, rasps, excavators).</p> <p>Prepare polishing brushes, pastes, strips, antiseptics, medicinal ointments, films, gels, remineralizing agents.</p>	9
9. Filling out outpatient cards	<p>Entering the data of the survey, examination, basic</p>	16

Modules	Contents (topics, types of practical activities)	Workload, academic hours
	and additional methods of examination, a comprehensive treatment plan, diaries of visits, recommendations.	
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.

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"
-

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 (competences in part) 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).

DEVELOPERS:

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