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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**

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

**INTERNSHIP SYLLABUS**

**Observing and Assisting a Dentist (Prosthodontics)**

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internship title

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productive

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internship type

**Recommended by the Didactic Council for the Education Field of:**

31.05.03 Dentistry

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field of studies / speciality code and title

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

Dentistry

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higher education programme profile/specialisation title

## 1. INTERNSHIP GOAL(s)

The goal of the Internship "Observing and Assisting a Dentist (Prosthodontics)" is to consolidate and deepen the theoretical training of the student, to acquire practical skills, knowledge, and skills, to form competencies that make up the content of the professional activity of the assistant of prosthodontist.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

The internship "Observing and Assisting a Dentist (Prosthodontics)" is aimed at the development of the following competences (competences in part): GC-1.1, GPC-1.1, GPC-1.2, GPC-1.3, GPC-2.1, GPC-2.3, GPC-5.1, GPC-5.2, GPC-5.3, GPC-5.8, GPC-5.9, PC-1.1, PC-1.2, PC-1.3, PC-1.4, PC-1.5.

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

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators (within this course)</b>
GC-1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	GC-1.1. Analysing the problem situation as a system identifying its components and links between them.
GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	GPC-1.1. Complies with the basics of medical ethics and deontology; fundamentals of legislation in the field of healthcare; legal aspects of medical activity.
		GPC-1.2. Applies ethical norms and principles of behavior of a medical worker in the performance of his 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).
		GPC-1.3. Has 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.
GPC-2	Able to analyze the results of their own activities to prevent professional errors	GPC-2.1. Analyzes the causes of professional errors, adverse outcomes of treatment and conflict situations.

		GPC-2.3. Evaluates the effectiveness of preventive measures aimed at preventing professional errors, adverse outcomes and conflict situations in dentistry
GPC-5	Being able to examine a patient to determine a diagnosis while solving professional tasks	GPC-5.1. Gathering anamnesis by analyzing the patient's complaints, making a physical examination at a dental appointment.
		GPC-5.2. Formulating a preliminary diagnosis and deciding on laboratory and instrumental examinations of a dental patient.
		GPC-5.3. Compiling medical documentation for a dental patient in accordance with regulatory requirements.
		GPC-5.8. Conducting differential diagnosis with other diseases/conditions, including the urgent ones.
		GPC-5.9. Making a diagnosis according to the current international classification of diseases and health problems.
PC-1	Being able to make an examination of a patient to determine a diagnosis.	PC-1.1. Making an initial examination and/or reexamination of a patient to make a preliminary diagnosis.
		PC-1.2. Receiving information from patients (their relatives/legal representatives); conducting a questionnaire survey of patients regarding their general health status; identifying concomitant diseases to make a preliminary diagnosis.
		PC-1.3. Detecting if patients have dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition based on the patient examination; laboratory, instrumental, and additional examinations in order to make a preliminary/final diagnosis.
		PC-1.4. Detecting if patients have risk factors for oncopathology (including various background processes, precancerous conditions) based on laboratory, instrumental and additional examinations to make a preliminary/final diagnosis.
		PC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental examinations.

### 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.*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Previous courses/modules, internships*</b>	<b>Subsequent courses/modules, internships*</b>
GC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy.	<ul style="list-style-type: none"> <li>• Prosthodontics (simple prosthetics)</li> <li>• Prosthetics of edentulous patient</li> <li>• Prosthodontics (complex prosthetics)</li> </ul>	<ul style="list-style-type: none"> <li>• Prosthetics (complex prosthodontics) – continuation</li> <li>• Maxillofacial prosthetics</li> <li>• Gnathology and functional diagnostics of the temporomandibular joint</li> </ul>
GPC-1	Able to implement moral and legal norms, ethical and deontological principles in professional activities	<ul style="list-style-type: none"> <li>• Prosthodontics (simple prosthetics)</li> <li>• Prosthetics of edentulous patient</li> <li>• Prosthodontics (complex prosthetics)</li> </ul>	<ul style="list-style-type: none"> <li>• Prosthetics (complex prosthodontics) – continuation</li> <li>• Maxillofacial prosthetics</li> <li>• Gnathology and functional diagnostics of the temporomandibular joint</li> </ul>
GPC-2	Able to analyze the results of their own activities to prevent professional errors	<ul style="list-style-type: none"> <li>• Prosthodontics (simple prosthetics)</li> <li>• Prosthetics of edentulous patient</li> <li>• Prosthodontics (complex prosthetics)</li> </ul>	<ul style="list-style-type: none"> <li>• Prosthetics (complex prosthodontics) – continuation</li> <li>• Maxillofacial prosthetics</li> <li>• Gnathology and functional diagnostics of the temporomandibular joint</li> </ul>
GPC-5.	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	<ul style="list-style-type: none"> <li>• Prosthodontics (simple prosthetics)</li> <li>• Prosthetics of edentulous patient</li> <li>• Prosthodontics (complex prosthetics)</li> </ul>	<ul style="list-style-type: none"> <li>• Prosthetics (complex prosthodontics) – continuation</li> <li>• Maxillofacial prosthetics</li> <li>• Gnathology and functional diagnostics of the temporomandibular joint</li> </ul>

PC-1.	Able to conduct examination of the patient to establish a diagnosis.	<ul style="list-style-type: none"> <li>• Prosthodontics (simple prosthetics)</li> <li>• Prosthetics of edentulous patient</li> <li>• Prosthodontics (complex prosthetics)</li> </ul>	<ul style="list-style-type: none"> <li>• Prosthetics (complex prosthodontics) – continuation</li> <li>• Maxillofacial prosthetics</li> </ul> Gnathology and functional diagnostics of the temporomandibular joint
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#### 4. INTERNSHIP WORKLOAD

The total workload of the internship “Assistant of prosthodontist” is 3 credits (108 academic hours).

#### 5. INTERNSHIP CONTENTS

*Table 5.1. Internship contents\**

Modules	Contents (topics, types of practical activities)	Workload, academic hours
Section 1. Organizational and preparatory stage: "Introduction to Practice Course"	Topic 1.1. Safety briefing, general briefing on fire safety, internal regulations of the prosthodontic department of the dental clinic and labor protection rules; Acquaintance with the structure and office work of the prosthodontic department of the dental clinic, training in work in the structural unit; Rights and obligations of a student while practice. Tasks and stages of diagnostics of the prosthodontic department of a dental clinic. Requirements for filling out standard medical documentation and a work practice diary.	3
Section 2. Main stage: "Job as an assistant of a prosthodontist"	Topic 2.1. Performance of work in accordance with the main activities of the orthopedic department of the dental clinic and individual tasks. Acquisition of professional skills. Data collection skills for report	30
	Topic 2.2. Mastering simple manual procedures of an prosthodontic dentist assistant: obtaining an anatomical auxiliary alginate impression, casting a model of the dentition from plaster, making a wax base with an occlusal rim, applying a face bow, obtaining a wax occlusogram, periotestometry of the anterior teeth. screening diagnostics of the mucous membrane with the special device.	60
Section 3 Final stage (report)	Topic 3.1. Collection, processing and analysis of practical experience as an assistant to an orthopedic dentist. Preparation of a written report on the practice. Defending the practice report.	5
Preparation of a practice report		7
Preparation for defense and defense of the practice report		3
<b>Total:</b>		<b>108</b>

\* 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. Orthopedic dentistry: textbook / S.D. Arutyunov, E.A. Bragin, S.I. Burlutskaya [and others]; edited by E.S. Kalivradzhiyan, I.Yu. Lebedenko, E.A. Bragina, I.P. Ryzhova. - 3rd ed., revised. and additional - M. : GEOTAR-Media, 2020. - 800 p. : ill. - ISBN 978-5-9704-5272-1 : 2200.00.
2. Technology of dental and jaw prosthetics [Text]: a guide for practical exercises / V. N. Trezubov, E. A. Bulycheva, S. D. Arutyunov. - Moscow: Practical Medicine, 2020. - 167 p. : ill., tsv. ill. ; 25 cm. - Bibliography: p. 167 (10 titles). - 500 copies. - ISBN 978-5-98811-582-3 (in translation)
3. Guide to practical exercises in prosthetic dentistry for 3rd year students / edited by Lebedenko I. Yu., Elicheva V. V., Markova B. P. / (Authors: Arutyunov S. D. and others) Educational allowance. - M. : Practical medicine, 2012. (Part I. - 432 p.). ISBN: 978-5-98811-031-2
4. Guide to practical exercises in orthopedic dentistry for 4th year students / edited by Lebedenko I. Yu., Elicheva V. V., Markova B. P. / (Authors: Arutyunov S. D. and others) Educational allowance. - M. : Practical medicine, 2007. (Part II. - 352 p.). ISBN: 978-5-98811-045-2
5. Dental technique: textbook / S.D. Arutyunov, D.M. Bulgakov, M.G. Grishkin [and others]; ed. MM. Rasulova, T.I. Ibragimova, I.Yu. Lebedenko. - 2nd ed., corrected. and additional - M. : GEOTAR-Media, 2016. - 384 p. - ISBN 978-5-9704-3830-5.

[http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn\\_FindDoc&id=475755&idb=0](http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=475755&idb=0)

### *Additional readings:*

1. Orthopedic dentistry [Text]: Textbook / V.N. Kopeikin [and others]; Ed. V.N. Kopeikina, M.Z. dental faculties of medical universities). - ISBN 5-225-04598- Mirgazizova. - 2nd ed., add. - M. : Medicine, 2001. - 624 p. : ill. - (Educational literature for students 7: 276.00.56.6 - O-70
2. I.Yu. Lebedenko, T.I. Ibragimov, A.N. Ryakhovsky Functional and instrumental research methods in orthopedic dentistry [Text]: Textbook for universities. - M. : Medical Information Agency, 2003. - 128 p. : ill. - ISBN 5-89481-135-X: 260.00.56.6 - L33.
3. Fixed prosthetics: technology for manufacturing a stamped steel crown [Electronic resource]: Educational and methodological guide / L.S. Sergeev. - St. Petersburg. : Publishing house "Lan", 2018. - 52 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-2863-2.
4. Orthopedic dentistry: national guidelines. Volume 1 / ed. I.Yu. Lebedenko, S.D. Arutyunova, A.N. Ryakhovsky. - GEOTAR - Media, 2022. - 824 p. ISBN: 978-5-9704-6366-6
5. Orthopedic dentistry: national guidelines. Volume 2. / ed. I.Yu. Lebedenko, S.D. Arutyunova, A.N. Ryakhovsky. - GEOTAR - Media, 2022. - 416 p. ISBN: 978-5-9704-6367-3.
6. Recording and maintaining a medical record in the clinic of orthopedic dentistry: Textbook / Ed. T.I. Ibragimova.- M.: GEOTAR - Media, 2013.- 223 p.
7. Orthopedic treatment of patients with complete absence of teeth: Proc. allowance: [specialty 060105 (040400) "Dentistry"] / A. P. Voronov, I. Yu. Lebedenko, I. A. Voronov. - 2nd ed., revised. and additional - Moscow: MEDpress-inform, 2009. - 343 p. : col. ill., tab. - ISBN 5-98322-551-0
8. Mironova M.L. Removable dentures [Electronic resource]: Textbook / M.L. Mironov. - M. : GEOTAR-Media, 2016. - 464 p. - ISBN 978-5-9704-3718-6.

***Resources of the information and telecommunications network "Internet":***

1. RUDN ELS and third-party ELS, to which university students have access based on concluded agreements:

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

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.

## **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 (GC-1.1, GPC-1.1, GPC-1.2, GPC-1.3, GPC-2.1, GPC-2.3, GPC-5.1, GPC-5.2, GPC-5.3, GPC-5.8, GPC-5.9, PC-1.1, PC-1.2, PC-1.3, PC-1.4, PC-1.5) 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:**

Professor of the Department of prosthetic dentistry		Bykova M. V.
_____	_____	_____
position, educational department	signature	name and surname.
Head of Medical institute Professor		Abramov A.Yu.
_____	_____	_____
position, educational department	signature	name and surname
Head of the Department of prosthetic dentistry, Professor		Lebedenko I. Yu.
_____	_____	_____
position, educational department	signature	name and surname.

### **HEAD OF EDUCATIONAL DEPARTMENT:**

		Lebedenko I. Yu.
_____	_____	_____
educational department	signature	name and surname.

### **HEAD OF HIGHER EDUCATION PROGRAMME:**

The head of EP HE, Deputy director MI on the specialty "Dentistry" Professor		Razumova S. N.
_____	_____	_____
position, educational department	signature	name and surname