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

Medical Institute

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

INTERNSHIP SYLLABUS

Observing and Assisting a Dentist (Pediatric)

internship title

Practical Training

internship type

Recommended by the Didactic Council for the Education Field of:

31.05.03 Dentistry

field of studies / speciality code and title

**The course instruction 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 practical training "Assistant to the pediatric dentist" is to consolidate and deepen the theoretical training of the student in the field of prevention, diagnosis and treatment of diseases of the hard tissues of the teeth and their complications, dental trauma, diseases of the oral mucosa and periodontal disease in children and adolescents; acquisition of practical skills and competencies in the field of professional activity.

The course is intended to help students to:

- acquaint the student with the epidemiology, etiology of dentofacial anomalies and deformities;
- acquaint the student with the development, growth and formation of the jaws and face in general;
- acquaint the student with the methods of clinical and radiological examination of the dentoalveolar system, classifications of dentoalveolar anomalies;
- acquaint the student with the methods of preventing the formation of dental anomalies, congenital and hereditary diseases;
- acquaint the student with the methods of treatment of dentoalveolar anomalies and deformities in various periods of growth and development, as well as in adult patients
- consider the use of various designs of orthodontic appliances.

2. REQUIREMENTS FOR LEARNING OUTCOMES

The internship implementation is aimed at the development of the following competences: **UC-1.1; GPC-1.1; GPC-1.3; GPC-2.1; GPC-2.2; GPC-2.3; GPC-4.1; GPC-4.3; GPC-5.1; GPC-5.2; GPC-5.3; GPC-5.4; GPC-5.5; GPC-5.6; GPC-5.8; GPC-5.9; GPC-6.1; GPC-6.2; GPC-6.3; GPC-6.4; GPC-6.5; GPC-6.9; GPC-9.1; GPC-9.2; GPC-9.3; PC-1.1; PC-1.2; PC-1.3; PC-1.5; PC-1.6; PC-2.1; PC-2.2; PC-2.3; PC-2.4; PC-2.5; PC-2.8; PC-2.9; PC-5.1**

(in accordance with the Federal State Educational Standard of Higher Education (FSSES) 3++ 31.05.03 Dentistry).

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

Code and competence	Indicators of Competence Formation (within the framework of this discipline)
UC-1. Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	UC-1.1. Analysing the problem situation as a system identifying its components and links between them.
GPC-1. Being able to implement moral standards and legal regulations, ethical and deontological principals in professional activity	GPC-1.1. Observing bases of medical ethics and deontology; legal bases in healthcare; legal aspects of medical practice.
	GPC-1.3. Being experienced in solving standard professional tasks based on the ethical standards and deontological principles when

	interacting with colleagues and patients (their legal representatives); being aware of legal aspects of medical practice.
GPC-2. Being able to analyse the results of their own professional activity to prevent professional errors	GPC-2.1. Analysing the causes of professional errors, therapeutic failures and conflict situations.
	GPC-2.2. Providing scientific arguments for and implementing recommendations aimed at improving the medical and legal training of dentists, preventing professional errors, adverse outcomes and conflict situations.
	GPC-2.3. Assessing the effectiveness of preventive measures aimed at preventing professional errors, adverse outcomes and conflict situations in dentistry.
GPC-4. Being able to monitor the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	GPC-4.1. Analysing the awareness of the population of a healthy lifestyle and medical literacy.
	GPC-4.3. Preparing an oral presentation or a printed text that promotes a healthy lifestyle and increases the literacy of the population concerning dental disease prevention.
GPC-5. Being able to examine patients to determine a diagnosis when solving professional tasks	GPC-5.1. Gathering anamnesis by analysing the patient's complaints, making a physical examination at a dental appointment.
	GPC-5.2. Formulating a preliminary diagnosis and drawing up a plan for laboratory and instrumental examinations of a dental patient.
	GPC-5.3. Compiling medical documentation for a dental patient in accordance with regulatory requirements.
	GPC-5.4. Referring 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 standards of dental care.
	GPC-5.5. Referring 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 dental care taking into account the standards.
	GPC-5.6. Referring a patient for a consultation with medical specialists 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 dental care taking into account the standards.
	GPC-5.8. Conducting differential diagnosis with other diseases/conditions, including the urgent ones.
	GPC-5.9. Making a diagnosis based on the current international statistical classification of diseases and health problems.
	GPC-6. Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks

	<p>GPC-6.2. Selecting medical products (including dental materials) for drawing up a comprehensive plan for dental disease treatment. Following up the treatment of a patient.</p> <p>GPC-6.3. Assessing the possible side effects of taking medicinal drugs.</p> <p>GPC-6.4. Providing medical care to a dental patient in emergency or urgent forms.</p> <p>GPC-6.5. Organizing the prevention and treatment of complications, side effects, undesirable reactions, including the unforeseen ones, which can arise from diagnostic or medicinal manipulations, use of drugs and (or) medical devices, non-drug treatment at a dental appointment.</p> <p>GPC-6.9. Evaluating the efficacy and safety of using medicinal drugs, medical devices and other methods of treatment at a dental appointment.</p>
GPC-9. Being able to assess morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	<p>GPC-9.1. Being able to use the algorithm of clinical, laboratory and functional diagnosis in dealing with professional tasks.</p> <p>GPC-9.2. Evaluating the results of clinical, laboratory and functional diagnosis in dealing with professional tasks.</p> <p>GPC-9.3. Determining morpho-functional, physiological states and pathological processes of the human body.</p>
PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	<p>PC-1.1. Making an initial examination and/or reexamination of a patient in order to make a preliminary diagnosis.</p> <p>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 in order to make a preliminary diagnosis.</p> <p>PC-1.3. Detecting if patients have dentoalveolar, facial anomalies, deformities and prerequisites for their development, defects in the crowns of teeth and dentition on the basis of the patient examination; laboratory, instrumental, and additional examinations in order to make a preliminary/final diagnosis.</p> <p>PC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental examinations.</p> <p>PC-1.6. Making a final diagnosis based on additional examinations of patients.</p>
PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	<p>PC-2.1. Organizing the provision of emergency and urgent medical care for acute dental diseases, conditions, exacerbation of chronic diseases, which pose a threat to the patient's life, or without obvious signs of a threat to the patient's life.</p> <p>PC-2.2. Selecting drugs and medical devices (including dental materials) for dental disease treatment assessing the possible side effects of taking medicinal drugs.</p> <p>PC-2.3. Consulting patients on methods for treating dental diseases drawing up a comprehensive treatment plan which justifies the most appropriate tactics and assesses possible complications caused by using this technique.</p> <p>PC-2.4. Selecting the type of local anesthesia/anesthesia and assessing the possible complications caused by using it.</p>

	PC-2.5. Conducting a specialized appointment for adults and/or children, monitoring the course of treatment of caries, non-carious dental diseases, pulpitis, periodontal disease, periodontitis, jawbone tissue, peripheral nervous system of the maxillofacial area, temporomandibular joint, salivary glands, diseases of the mucous tunic of mouth, with the exception of precancers, using modern treatment methods approved for use in medical practice.
	PC-2.8. Observing and treating diseases of the oral mucosa, lips, with the exception of a specialized appointment for the treatment of precancers of the oral mucosa and lips, and treatment of children with manifestations of viral, bacterial, allergic and other pediatric infections in the oral cavity.
	PC-2.9. Performing a phased sanitation of the oral cavity (excluding the sanitation of children under conditions of anesthesia).
PC-5. Being able to conduct health and hygiene education among the population and medical workers in order to form a healthy lifestyle	PC-5.1. Motivating patients (their relatives/legal representatives) to stick to a healthy lifestyle and give up bad habits.

3. INTERNSHIP IN HIGHER EDUCATION PROGRAMME STRUCTURE

Practice is a mandatory section of the main educational program for the training of general dentists and is a form of organization of the educational process, directly focused on the professional and practical training of the student.

To pass the practical training "assistant to the pediatric dentist" a student must have knowledge in the field of anatomy, physiology, histology, pathological anatomy, pathological physiology, pharmacology, pediatrics, propaedeutics of dental diseases, prevention of dental diseases, therapeutic dentistry.

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.

No. p / p	Code and name of competence	Previous disciplines	Subsequent disciplines (groups of disciplines)
Universal Competence			
1	UC-1. Able to carry out a critical analysis of problem situations based on a systematic approach, develop an action strategy.	<ul style="list-style-type: none"> • Propaedeutics of dental diseases • Prevention and Community Dentistry • Cariesology and disease of hard tissues of teeth • Endodontics 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Orthodontics and pediatric prosthetics

		<ul style="list-style-type: none"> • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) 	<ul style="list-style-type: none"> • Clinical dentistry
General professional competencies			
2	GPC-1. Able to implement moral and legal norms, ethical and deontological principles in professional activities	<ul style="list-style-type: none"> • Propaedeutics of dental diseases • Prevention and Community Dentistry • Cariesology and disease of hard tissues of teeth • Endodontics • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Pediatric Dentistry Clinical Dentistry • medical rehabilitation
3	GPC-2. Able to analyze the results of their own activities to prevent professional errors	<ul style="list-style-type: none"> • Propaedeutics of dental diseases • Prevention and Community Dentistry • Cariesology and disease of hard tissues of teeth • Endodontics • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Pediatric Dentistry Clinical Dentistry • medical rehabilitation
4	GPC-4. Able to conduct and monitor the effectiveness of preventive measures, the formation of a healthy lifestyle and sanitary and hygienic education of the population	<ul style="list-style-type: none"> • Prevention and Community Dentistry • Public health and healthcare • Hygiene 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Orthodontics and pediatric prosthetics • Clinical dentistry • medical rehabilitation

5	GPC-5. Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	<ul style="list-style-type: none"> • Propaedeutics of dental diseases • Cariesology and disease of hard tissues of teeth • Endodontics • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Orthodontics and pediatric prosthetics • Clinical dentistry
6	GPC-6. Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	<ul style="list-style-type: none"> • Cariesology and disease of hard tissues of teeth • Endodontics • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) • Pharmacology 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Pediatric Dentistry • Clinical Dentistry
7	GPC-9. Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems	<ul style="list-style-type: none"> • Propaedeutics of dental diseases • Cariesology and disease of hard tissues of teeth • Endodontics • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Pediatric Dentistry • Clinical Dentistry • medical rehabilitation
Professional competencies			
8	PC-1. Able to conduct examination of the patient in order to establish a diagnosis.	<ul style="list-style-type: none"> • Propaedeutics of dental diseases • Cariesology and disease of hard tissues of teeth • Endodontics • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics • Pediatric Dentistry • Clinical Dentistry • medical rehabilitation
9	PC-2. Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	<ul style="list-style-type: none"> • Propaedeutics of dental diseases • Cariesology and disease of hard tissues of teeth 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Maxillofacial prosthetics

		<ul style="list-style-type: none"> • Endodontics • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) 	<ul style="list-style-type: none"> • Orthodontics and pediatric prosthetics • Clinical dentistry • medical rehabilitation
10	PC-5. Able to conduct sanitary and hygienic education among the population and medical workers in order to form a healthy lifestyle	<ul style="list-style-type: none"> • Propaedeutics of dental diseases • Cariesology and disease of hard tissues of teeth • Endodontics • Local anesthesia and anesthesiology in dentistry • Dental prosthetics (simple prosthetics) 	<ul style="list-style-type: none"> • Pediatric maxillofacial surgery • Orthodontics and pediatric prosthetics • Clinical dentistry • medical rehabilitation

* - filled in accordance with the matrix of competencies of higher education programme.

4. INTERNSHIP WORKLOAD

The total duration of the internship "Assistant to the pediatric dentist" is 2 weeks (12 working days).

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

Table 4.1. Types of academic activities during the period of the HE program mastering

Type of academic activities	TOTAL, academic hours (ac.h)	Semester(s)			
		9			
Classroom learning, ac.h.	72				
including:					
Lectures (Lec)					
Lab work (Lab)					
Practical/seminar classes					
Self-studies, academic hours	36				
Evaluation and assessment (exam or pass/fail grading)		<i>Assessment test</i>			
Total workload of the discipline	ac.h.	108			
	credits	3			

5. INTERNSHIP CONTENTS

*Table 5.1. Internship contents**

Modules	Contents (topics, types of practical activities)	Workload, academic hours
Section 1. Organization of the work of a pediatric dentist. Aseptic and antiseptic mode of therapeutic and surgical rooms. Filling of medical histories and reporting documentation.	Topic 1.1. Familiarization with the organization of the work of a pediatric dentist; with the equipment of the rooms; with the asepsis regime of the therapeutic and surgical rooms; with safety and labor protection; with the organization of the clinic and the duties of an assistant to the pediatric dentist. Preparation of the dental office. Pediatric dentist assistance and independent performance of individual manipulations. During the internship, the management of medical records is required (filling out the form 043/y Medical record of a dental patient).	7,5
Section 2. Types of anesthesia: Topical, local infiltration, nerve block.	Topic 2.1. Anesthesia in children at different ages. Indications and contraindications for topical, local infiltration, nerve block anesthesia in children. Choice of anesthetic. Preparation of the dental office for the reception of patients. Pediatric dentist assistance and independent performance of individual manipulations.	7,5
Section 3. Caries of temporary teeth, clinical manifestation.	Topic 3.1. The study of the etiology, pathogenesis, clinical presentation, localization of caries in early childhood, preschool age and primary school age. Preparation of the dental office for the reception of patients. Pediatric dentist assistance and independent performance of individual manipulations.	7,5
Section 4. Treatment methods of temporary teeth caries.	Topic 4.1. Choosing the method of caries treatment in temporary teeth, depending on the depth of the lesion. The following methods are used in enamel caries treatment: impregnation, remineralization, fluorization; carrying out remineralization and fluorization or preparation and filling of a carious cavity. In the treatment of dentine caries, the preparation and formation of a carious cavity and its filling are carried out. Principles of choice of filling materials.	7,5
Section 5. Caries of permanent teeth.	Topic 5.1. The study of the etiology, pathogenesis, classification, clinical picture of caries in permanent teeth in children. Study of the causes of hypomineralization of hard tissues of permanent teeth in the first years after eruption, indications for preventive fissure sealing .	7,5

Section 6. Methods of permanent teeth caries treatment.	Topic 6.1. The choice of methods for permanent teeth caries treatment, depending on the depth of the lesion. In the treatment of enamel caries, the following methods are used: infiltration, remineralization , fluorization (caries in the stain stage); grinding of enamel and carrying out remineralization and fluorization or preparation and filling of a carious cavity (superficial caries). In the treatment of dentine caries, the preparation and formation of a carious cavity and its filling are carried out. Studying the principles of choosing filling materials.	7,5
Section 7. Pulpitis of temporary teeth.	Topic 7.1. The study of the etiology, pathogenesis, course, clinical picture of pulpitis of temporary teeth. Study of the cause of asymptomatic pulpitis, the cause of hyperergic reaction in acute and exacerbation of chronic pulpitis.	7,5
Section 8. Treatment of pulpitis of temporary teeth.	Topic 8.1. The study of the choice of methods for the treatment of pulpitis of temporary teeth, depending on the diagnosis, the group of the tooth, the degree of formation of the root / roots or their resorption. Algorithms for methods of pulpotomy , high amputation, extirpation (vital and devital), indications and contraindications.	7,5
Section 9. Pulpitis of permanent teeth.	Topic 9.1. Study of the etiology, pathogenesis, classifications, clinical picture of pulpitis of permanent teeth with unformed and formed roots.	7,5
Section 10. Treatment of pulpitis in permanent teeth.	Topic 10.1. The study of the choice of treatment methods for pulpitis of permanent teeth, depending on the diagnosis and the degree of formation of the root / roots. processing of algorithms for methods of pulpotomy, high amputation, extirpation (vital and devital), indications and contraindications.	7,5
Section 11. Periodontitis of temporary and permanent teeth.	Topic 11.1. Study of the etiology, pathogenesis, classifications, clinical picture of periodontitis of temporary and permanent teeth in children. The study of treatment methods of periodontitis of temporary and permanent teeth. Apexification as a method of treating periodontitis in permanent teeth with immature roots. Necrectomy as a method of treating periodontitis of permanent teeth with formed roots.	7,5
Section 12. Prevention of dental diseases in children.	Topic 12.1. The study of methods for the prevention of dental diseases in children of different ages. Study methods of primary, secondary and tertiary prevention.	7,5
Writing an internship report		9
Preparing for defence and defending the internship report		9

* 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

Table 6.1. Logistical and material provision of the discipline.

Classroom for Academic Activity Type	Classroom Equipment	Specialized educational/laboratory equipment, software and materials for the mastering of the discipline
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations. A variety of equipment is used for classroom activities: (visual aids, dental equipment and surgical instruments for extraction of teeth, phantoms, drugs, extracted teeth, x-rays, computer presentation, computers, projector, tables, dental equipment and surgical instruments for emergency care), (classrooms 245, 249)	Training room for conducting lecture and seminar classes, group and individual consultations, current control and intermediate certification. A set of specialized furniture; technical means: multimedia projector, laptop, WiFi available Internet access. Software: Microsoft products (OS, office suite, including MS Office / Office 365, Teams)
Learning Lab	An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and equipment.	
Phantom Class	Cabinets with appropriate equipment, instruments, medical equipment, preventive measures;	
Classroom for students' self-studies	Classroom for self-studies of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the internet.	

7. INTERNSHIP LOCATION AND TIMELINE

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

8. RESOURCES RECOMMENDED FOR INTERNSHIP

Main literature:

1. Pediatric therapeutic dentistry. National leadership / edited by V.K. Leontiev, L.P. Kiselnikova. – 2nd ed., revised and supplemented. - M., GEOTAR-Media, 2017. - 952 p.: ill. - ISBN 978-5-9704-4019-3.
2. Kosyuga, S. Yu. Textbook on practical training in pediatric dentistry therapy for foreign dental students / S. Yu. Kosyuga. – Нижний Новгород : Publishing House of Privolzhsky Research Medical University, 2022. – 92 p. – ISBN 978-5-7032-1453-4. – EDN GUNUJX.

3. Children's dentistry: textbook / ed. O.O. Yanushevich, L.P. Kiselnikova, Shch.Z. Topolnitsky. - M.: GEOTAR-Media, 2020. - 744 p.: ill. - ISBN 978-5-9704-5318-6.

Additional literature:

Printed publications:

1. Vinogradova T.F. Atlas of dental diseases in children: Study guide / T.F. Vinogradov. - M.: MEDpress-inform, 2007. - 167 p.: ISBN 5-98322-244-9.
2. Dental caries in childhood. Modern methods of diagnosis and treatment: textbook / A.E. Anurova, T.F. Kosyreva, V.V. Safroshkina, O.M. Davidyan. - Moscow: RUDN University, 2017. - 95 p.: ill.
3. Modern methods of diagnosis and treatment of pulpitis in children: textbook / A.E. Anurova, O.M. Davidyan, T.F. Kosyreva, V.V. Safroshkin. - Moscow: RUDN University, 2016. - 72 p.: ill.
4. Diseases of the mucous membrane of the oral cavity and lips in children / edited by L.N. Kazari-noy. - Nizhny Novgorod: Publishing house NGMA.m2004. - 264s.
5. Handbook of Pediatric Dentistry / ed. A. Cameron, R. Widmer.-M.: "MEDpress-inform", 2003.- 287p.
6. Dental trauma in children [Electronic resource]: Educational and methodological manual / Comp.: T.F. Kosyreva, V.V. Safroshkina, O.M. Davidyan, E.S. Zaporizhskaya-Abramova. - Electronic text data. - M. : Publishing House of RUDN University, 2014. - 40 p. - ISBN 978-5-209-05964-6.
7. Pharmacotherapy in pediatric dentistry [text] / E.V. Zoryan // Clinical Dentistry. - 2012. - No. 2. - S. 6 - 10.
8. Drugs in pediatric dentistry: textbook /. - Minsk: Higher School, 2017. - 320 p. - Bibliography: p. 305 - ISBN 978-985-06-2717-9; The same [Electronic resource]. - URL: <http://biblioclub.ru/index.php?page=book&id=480060> (04/08/2019).
9. General anesthesia and sedation in pediatric dentistry [Electronic resource]: A guide. - M. : GEOTAR-Media, 2007. - 184 p. - ISBN 978-5-9704-0505-5.

Information support of discipline

- a) Information technologies used in the educational process:
 - Problem lectures
 - Role and business games
 - Computer presentations during theoretical and practical classes
- b) Software
 - training computer programs prepared using the Microsoft Office application package
 - controlling computer programs prepared using the Microsoft Office application package
- c) Information reference systems
 - selection of lecture material on CDs, video films
- d) databases, information and reference and search systems
 - RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/MegaPro/Web>
 - ELS "University Library Online" <http://www.biblioclub.ru>
 - EBS "Lan" <http://e.lanbook.com/>
 - scientific electronic library eLibrary
 - PubMed international citation database

- publishing house of academic medical literature Elsevier
- information and educational portal for doctors Univadis
- electronic educational resource "Telecommunication educational and information system" of RUDN University
- cathedral site

Internet sources

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

- RUDN Electronic Library System - RUDN EBS <http://lib.rudn.ru/>

2. Databases and search engines:

- electronic fund 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/>

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. EVALUATION TOOLKIT AND GRADE SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL AS INTERNSHIP RESULTS

Evaluation Toolkit (ET) and a point-rating system (PRS)* to evaluate the level of competences (competences in part) formation as the internship results are specified in the Appendix to the internship syllabus.

* - ET and PRS are formed on the basis of the requirements of the relevant local regulatory act of the RUDN

DEVELOPERS:

Senior Lecturer, Department of
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Position, educational department

Signature

name and surname.

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**HEAD OF
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