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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

## **COURSE SYLLABUS**

**Dental Modelling of Teeth**

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course title

**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 course instruction is implemented within the professional education programme of higher education:**

**Dentistry**

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higher education programme profile/specialisation title

## 1. COURSE GOAL(s)

The goal of the course is to develop students' personal qualities, as well as the formation of general professional and professional competencies in accordance with the requirements of the Federal State Educational Standard for Higher Education in the field of Dentistry in the discipline "*Dental modeling of teeth*".

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Dental modeling of teeth" is aimed at the development of the following competences /competences in part: **GPC – 8.**

*Table 2.1. List of competences that students acquire through the course study*

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC -8	GPC - 8. The ability to use basic physico-chemical, mathematical and natural science concepts and methods in solving professional problems.	GPC - 8.2. Application of applied natural science knowledge to solve professional problems.

## 3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective\* component of (B1) block of the higher educational programme curriculum.

\* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

*Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results*

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GPC -8.	The ability to use basic physico-chemical, mathematical and natural science concepts and methods in solving professional problems		Cariesology. Endodontics. Gerontostomatology and diseases of the oral mucosa. Periodontics. Local anesthesia and anesthesiology in dentistry. Oral surgery. Gnatology and functional diagnostics of TMJ. Dental prosthetics (simple prosthetics). Prosthetics in the complete absence of teeth. Prosthetics of dentition (complex prosthetics). Maxillofacial surgery. Pediatric dentistry. Minimally invasive technologies in dentistry. Implantology and reconstructive

			surgery of the oral cavity. Oncostomatology and radiation therapy. Physiotherapy of dental diseases. Clinical dentistry. Medical genetics in dentistry.
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\* To be filled in according to the competence matrix of the higher education programme.

#### 4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Dental modeling of teeth" is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering (**full-time training**)\*

Type of academic activities	Total academic hours	Semesters/training modules			
		1			
<i>Contact academic hours</i>	34	34			
including:					
Lectures (LC)					
Lab work (LW)	34	34			
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>	20	20			
<i>Evaluation and assessment (exam/passing/failing grade)</i>	18	18			
<b>Course workload</b>	academic hours	<b>72</b>	<b>72</b>		
	credits	<b>2</b>	<b>2</b>		

\* To be filled in regarding the higher education programme correspondence training mode.

#### 5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Dental modeling of teeth	Topic 1. The anatomy of teeth. Groups of teeth by functional feature. Occlusion. Types and shape of dental arches. Principles of the structure of dental arches. Types of dentition rows. Articulation, its effect on the row of dentition, and the anatomical shape of teeth. Functional flatness (Spee, Wilson)	LW
	Topic 2. Types of restoration in dental practice, where it is necessary to use modeling skills and knowledge of the anatomy of teeth and dentition.	LW
	Topic 3. Rules and features of modeling the shape of the central incisor of the upper jaw. Modeling from sculptural	LW

	plasticine.	
	Topic 4. Rules and features of modeling the shape of the central incisor of the lower jaw. Modeling from sculptural plasticine.	LW
	Topic 5. Rules and features of modeling the shape of the central incisor of the lower jaw. Modeling from sculptural plasticine.	LW
	Topic 6. Rules and features of modeling the shape of the lateral incisor of the lower jaw. Modeling from sculptural plasticine.	LW
	Topic 7.  Rules and features of modeling the shape of the canines of the upper jaw. Modeling from sculptural plasticine.	LW
	Topic 8.  Rules and features of modeling the shape of the canines of the lower jaw. Modeling from sculptural plasticine.	LW
	Topic 9. Rules and features of modeling the shape of the first premolar of the upper jaw. Modeling from sculptural plasticine.	LW
	Topic 10. Rules and features of modeling the shape of the second premolar of the upper jaw. Modeling from sculptural plasticine.	LW
	Topic 11. Rules and features of modeling the shape of the first premolar of the mandible. Modeling from sculptural plasticine.	LW
	Topic 12. Rules and features of modeling the shape of the second premolar of the mandible. Modeling from sculptural plasticine.	LW
	Topic 13.  Rules and features of modeling the shape of the first molar of the upper jaw. Modeling from sculptural plasticine.	LW
	Topic 14. Rules and features of modeling the shape of the second molar of the upper jaw. Modeling from sculptural plasticine.	LW
	Topic 15.  Rules and features of modeling the shape of the first molar of the mandible. Modeling from sculptural plasticine.	LW

	Topic 16. Rules and features of modeling the shape of the second molar of the mandible. Modeling from sculptural plasticine.	LW
	Topic 17. The final lesson. A credit class.	Test + conversatio n

\* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

## 6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

*Table 6.1. Classroom equipment and technology support requirements*

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	The lecture-type classroom (№204) is equipped with a set of specialized furniture; a blackboard (screen) and multimedia presentation equipment.	A set of specialized furniture. <i>Technical support:</i> – multimedia projector, – Internet connection. <i>Software:</i> – Microsoft products (the operating system, a suite of office applications, including MSOffice/ Office 365, Teams.)
Lab/ Seminar	Classrooms are located in buildings: ATI and GUM-SOC. In the ATI building: audiences 249, 250, 251, 252 (the phantom class) и 253. In the GUM-SOC building: audiences 232-235 (the phantom class).	A set of specialized furniture. <i>Technical support:</i> Dental simulation units. DLP Optoma H114 Projector. Lenovo Think Centre M71z automated workplace. Laptop Asus X756UVIntel. Projector AcerP1285. Display Elite Screens Spectrum Electric100V. Laptop ASUS X751LDV. Monoblock Dell Optiplex 3030. PC TMO3300 i3 254.

		<p>Polymerization lamps "Woodpecker".</p> <p>Control units with a micromotor tip.</p> <p>Multimedia projector Sony VPL-C6.</p> <p>Electric screen Projecta PSECO001 Elproelectrol 160x160 sm.</p> <p>MOULAGES patient's head for phantom work in the package.</p> <p>Dental chair with electric drive and programmable position.</p> <p>The doctor's units are included.</p> <p>Screen 17" BenQ sc.1472.</p> <p>The screen is on a tripod Projecta, 180x180.</p> <p>Control units of the dental unit for 2 tips and a spray.</p> <p>Blocks of tips "DART 1440".</p> <p>Models of the upper and lower jaw with an articulator.</p> <p>A cupboard for storing sterile instruments.</p> <p>Instruments used in therapeutic, orthopedic and surgical dentistry.</p> <p>Consumables: gypsum, wax, casts, sealing materials, etc.</p> <p><u>Information stands and expositions:</u></p> <ul style="list-style-type: none"> <li>– information stand in Russian and English;</li> <li>– visual aids, posters, models.</li> </ul>
Self-studies	Classrooms 249, 250, 251, 252, 253 in ATI building. Classrooms 232-235 in GUM-SOC building, Classrooms equipped with a set of specialized furniture and	

	computers with access to EIOS. Halls. The scientific library in the Main building of the RUDN.	
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\* The premises for students' self-studies are subject to **MANDATORY** mention

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. THEODORE M. ROBERSON, HARALD O. HEYMANN. Sturdevant's ART and SCIENCE of Operative Dentistry. 4. б.м. : Mosby, 2002. ISBN 0-323-01087-3.
2. Jarned, Fuller A / Gerald E. Denehy / Thomas M. Schulein. Concise Dental Anatomy and Morphology.
3. Stanley J. Nelson, Major M. Ash, Jr. Wheeler's Dental Anatomy, Physiology, and Occlusion. 9. б.м. : Saunders Elsevier, 2010. ISBN: 978-1-4160-6209-7.

### *7.2. Internet-(based) sources:*

1. Electronic libraries with access for RUDN students:
  - Electronic library system РУДН – ЭБС РУДН <http://lib.rudn.ru/MegaPro/Web>
  - ELS « University Library Online » <http://www.biblioclub.ru>
  - ELS Yurayt <http://www.biblio-online.ru>
  - ELS «Student's Consultant » [www.studentlibrary.ru](http://www.studentlibrary.ru)
  - ELS «Lan» <http://e.lanbook.com/>
  - ELS « Troitsky most»
2. Databases and search engines:
  - electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/>
  - the Yandex search engine <https://www.yandex.ru/>
  - the Google search engine <https://www.google.ru/>
  - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

### *Training toolkit for self- studies to master the course \*:*

1. The set of lectures on the course “Dental Modeling of Teeth”.
2. The laboratory workshop (if any) on the course “Dental Modeling of Teeth”.
3. The guidelines for writing a course paper / project (if any) on the course “Dental Modeling of Teeth”.
4. ....

## **8. ASSESSMENT TOOLKIT AND GRADING SYSTEM\* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION**

Evaluation materials and point-rating system\* for assessing the level of competence formation (GPC-8) based on the results of mastering the discipline «Dental Modelling of Teeth» are presented in the Appendix to this Work Program of the discipline.

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).

\* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

**DEVELOPERS:**

Senior lecturer of the Department of  
Propaedeutics of Dental Diseases

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position, department

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signature

Manvelyan A.S.

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name and surname

Main lecturer of the Department of  
Propaedeutics of Dental  
Diseases, Candidate of  
Medical Sciences

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position, department

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Gurieva Z.A.

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name and surname

Doctor of Medical Sciences.,  
Professor

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position, department

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signature

Razumova S.N.

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name and surname

**HEAD OF EDUCATIONAL DEPARTMENT:**

Doctor of Medical Sciences,  
Professor

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name of department

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signature

Razumova S.N.

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name and surname

**HEAD**

**OF HIGHER EDUCATION PROGRAMME:**

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Institute, Professor

Doctor of Medical Sciences

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position, department

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name and surname