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ФИО: Ястребов Олег Александрович	DEODUES	
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Medical Institute

(name of the main educational unit)

COURSE SYLLABUS

DENTAL MODELING OF TEETH

Recommended by the Didactic Council for the Education Field of:

31.05.03. Dentistry

(Code and Higher Education Field)

The course instruction is implemented within the professional educationprogramme of higher education:

Dentistry

(Name of specialization EP of HE)

2024 г.

1. COURSE GOAL(s)

The development of 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 THE RESULTS OF MASTERING THE DISCIPLINE

The development of the discipline "Dental modeling of teeth" is aimed at the formation of the following competencies (parts of competencies): GPC - 8 (8.2)

Table 2.1. The list of competencies formed by students during the development of the disciplin	e (the
results of the development of the discipline).	

Code	Competencies	Indicators of competence achievement
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. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF THE EP of HE.

The discipline "Dental modeling of teeth" refers to the mandatory part: block B.1 of the EP of HE.

Within the framework of the EP of HE, students also master other disciplines that contribute to achieving the planned results of mastering the discipline "**Dental modeling of teeth**".

Table 3.1. The list of components of the EP of HE that contribute to achieving the planned results ofmastering the discipline

Code	Competencies	Previous disciplines	Subsequent disciplines
GPC -	The ability to use basic		Cariesology.
8.	physico-chemical,		Endodontics.
	mathematical and natural		Gerontostomatology and diseases of
	science concepts and		the oral mucosa.
	methods in solving		Periodontics.
	professional problems		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.

4. THE SCOPE OF THE DISCIPLINE AND TYPES OF ACADEMIC WORK

The total labor intensity of the discipline "Dental modeling of teeth" is 2 credits.

Table 4.1. Types of educational work according to the periods of mastering the EP of HE forFULL-time education.

Type of educational work	Quantity of		Seme	esters	
	hours	1			
Classroom classes (total)	34	34			
Including:		-	-	-	-
Lectures					
Workshops (WS)					
Seminars (S)					
Lab work (LW)	34	34			
Self-study (total)	38	38			
Total labor intensity (academic hour and pass/fail grading)	72	72			
	2	2			

5. THE CONTENT OF THE DISCIPLINE

Table 5.1. The content of the discipline (module) by type of academic work.

Name of the	N⁰	The content of the section (topics)	Type of
discipline section	Topic		ac. work
Dental modeling of	Topic.1	The anatomy of teeth. Groups of teeth by	LW. SS.
teeth		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)	
		_	
	Topic 2.	Types of restoration in dental practice, where	LW. SS.
		it is necessary to use modeling skills and	
		knowledge of the anatomy of teeth and	
		dentition.	
	Topic 3.	Rules and features of modeling the shape of	LW. SS.
		the central incisor of the upper jaw.	
		Modeling from sculptural plasticine.	

Topic 4.	Rules and features of modeling the shape of the central incisor of the lower jaw. Modeling from sculptural plasticine	LW. SS.
Topic 5.	Rules and features of modeling the shape of the central incisor of the lower jaw. Modeling from sculptural plasticine.	LW. SS.
Topic 6.	Rules and features of modeling the shape of the lateral incisor of the lower jaw. Modeling from sculptural plasticine.	LW. SS.
Topic 7.	Rules and features of modeling the shape of the canines of the upper jaw. Modeling from sculptural plasticine.	LW. SS.
Topic 8.	Rules and features of modeling the shape of the canines of the lower jaw. Modeling from sculptural plasticine.	LW. SS.
Topic 9.	Rules and features of modeling the shape of the first premolar of the upper jaw. Modeling from sculptural plasticine.	LW. SS.
Topic 10.	Rules and features of modeling the shape of the second premolar of the upper jaw. Modeling from sculptural plasticine.	LW. SS.
Topic 11.	Rules and features of modeling the shape of the first premolar of the mandible. Modeling from sculptural plasticine.	LW. SS.
Topic 12.	Rules and features of modeling the shape of the second premolar of the mandible. Modeling from sculptural plasticine.	LW. SS.
Topic 13.	Rules and features of modeling the shape of the first molar of the upper jaw. Modeling from sculptural plasticine.	LW. SS.
Topic 14.	Rules and features of modeling the shape of the second molar of the upper jaw. Modeling from sculptural plasticine.	LW. SS.
Торіс 15.	Rules and features of modeling the shape of the first molar of the mandible. Modeling from sculptural plasticine.	LW. SS.
Topic 16.	Rules and features of modeling the shape of the second molar of the mandible. Modeling from sculptural plasticine.	LW. SS.
Topic 17.	The final lesson. A credit class.	Test + conversati on

6. MATERIAL AND TECHNICAL SUPPORT OF THE DISCIPLINE:

Classroom for Academic Activity Type	Equipping the audience	Specialized educational/laboratory equipment, Software and materials for the development of the discipline.
Lecture Classroom	The lecture-type classroom $(N \circ 204)$ is equipped with a	A set of specialized furniture.
	set of specialized	Technical support:
	(screen) and multimedia	– multimedia projector,
	presentation equipment.	 Internet connection. <u>Software</u>: Microsoft products (the operating system, a suite of office applications, including MSOffice/Office 365, Teams.)
Lab/ Seminars classroom	Classrooms are located in buildings: ATI and GUM-SOC.	A set of specialized furniture.
	In the ATI building: audiences 249, 250, 251, 252 (the phantom	<u>Technical support</u> :
	class) и 253. In the GUM-SOC building:	Dental simulation units.
	audiences 232-	DLP Optoma H114 Projector.
	235 (the phantom class).	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.
		Polymerization lamps "Woodpecker".
		Control units with a micromotor tip.
		Multimedia projector Sony VPL-C6.
		Electric screen Projecta PSECO001 Elproelectrol 160x160 sm.
		MOULAGES patient's head for phantom work in the package.
		Dental chair with electric drive and programmable

		position.
		The doctor's units are included.
		Screen 17" BenQ sc.1472.
		The screen is on a tripod Projecta, 180x180.
		Control units of the dental unit for 2 tips and a spray.
		Blocks of tips "DART 1440".
		Models of the upper and lower jaw with an articulator.
		A cupboard for storing sterile instruments.
		Instruments used in therapeutic, orthopedic and surgical dentistry.
		Consumables: gypsum, wax, casts, sealing materials, etc.
		Information stands and expositions:
		 information stand in Russian and English;
		– visual aids, posters, models.
Computer classroom	Not provided	
Self-studies classroom	Classrooms 249, 250, 251, 252,	
	253 in ATI building.	
	GUM-SOC building	
	Classrooms equipped with	
	a set of specialized	
	furniture and computers	
	with access to EIOS.	
	Halls. The scientific	
	building of the RUDN	

7. EDUCATIONAL, METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE.

7.1. Main reading (sources):

1. THEODORE M. ROBERSON, HARALD 0. 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 <u>http://lib.rudn.ru/MegaPro/Web</u>
 - ELS « University Library Online » http://www.biblioclub.ru
 - ELS Yurayt http://www.biblio-online.ru
 - ELS «Student's Consultant » 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 <u>https://www.google.ru/</u>
 - abstract database SCOPUS http://www.elsevierscience.ru/products/scopus/

7.3. Learning toolkits for self- studies in the RUDN LMS TUIS in disciplines:

7.3.1. Educational materials and workbooks on all topics of the discipline "Dental modeling of teeth". 7.3.2. Lab works

7.3.3. Glossary and other educational materials.

8. ASSESSMENT MATERIALS AND A POINT-RATING SYSTEM FOR ASSESSING THE LEVEL OF COMPETENCE FORMATION IN THE DISCIPLINE "DENTAL MODELING OF TEETH"

Evaluation materials and a point-rating system for assessing the level of competence formation (part of competencies) based on the results of mastering the discipline "Dental modeling of teeth" are presented in the application to this Work Program of the discipline.

DEVELOPERS:

Senior lecturer of the Department of Propaedeutics of Dental Diseases.	Manvelyan A.S.
Main lecturer of the Departmentof Propaedeutics of Dental Diseases,	
Candidate of Medical Sciences	Gurieva Z.A.
HEAD OF THE DEPARTMENT: Head of the Department of Propaedeutics of Dental Diseases, Doctor of Medical Sciences., Professor	Razumova S.N.
HEAD OF THE HIGHER EDUCATION PROGRAM	
Deputy Director of the Medical Institute, Professor	Razumova S.N.