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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

COURSE SYLLABUS

Dental Modeling of Teeth

course title

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

2023-2024

1. COURSE GOAL(s)

The goal of the course “Dental Modelling of Teeth” is to equip students with the knowledge of general professional and professional competencies in accordance with the requirements of the Federal State Educational Standard of Higher Education in the direction of training

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Dental Modelling 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. Ability to use the basic physical-chemical, mathematical, and natural science concepts and methods in solving professional problems	GPC-8.2. Application of natural scientific knowledge to solve professional problems

3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course “Dental Modelling of Teeth” 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.	Ability to use the basic physical-chemical, mathematical, and natural science concepts and methods in solving professional problems		Carilogy Endodontics Gerontostomatology and diseases of the mucous membranes of the oral cavity Periodontology Local anesthesia and anesthesiology in dentistry Surgery of the oral cavity Gnathology and functional diagnostics of TMJ diagnostics of TMJ Dental prosthetics (simple prosthetics)

			Prosthetics in the complete absence of teeth Dental prosthetics (complex prosthetics Maxillofacial and gnatic surgery , Pediatric Dentistry Minimally invasive technologies in dentistry Implantology and reconstructive surgery of the oral cavity dental oncology and radiation therapy Physiotherapy stomat. Diseases Clinical Dentistry Genetics in dentistry
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4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Dental Modelling of Teeth” is 2 credits (72 academic hours).

Table 4.1. Types of academic activities during the periods of higher education programme mastering

Type of academic activities	Total academic hours	Semesters/training modules
		1
<i>Contact academic hours</i>	34	34
<i>including:</i>		
Lectures (LC)		
Lab work (LW)	34	34
Seminars (workshops/tutorials) (S)		
<i>Self-studies</i>	38	38
<i>Evaluation and assessment (exam/passing/failing grade)</i>		
Course workload	academic hours_	72
	credits	2

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
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Course module title	Course module contents (topics)	Academic activities types
Module 1: Dental modeling	Dental anatomy. <i>Types of Teeth and Their Functions. Occlusion. Dental arches shapes and forms.</i> Types of teeth alignment. Dental articulation, its effect on teeth alignment, and the anatomical shape of teeth. Functional occlusal plane (Spee, Wilson)	LW
	Types of dental restorations in which knowledge of the dental anatomy and teeth alignment, is needed	LW
	Guides and features of carving the maxillary central incisor. Carving in modeling clay.	LW
	Guides and features of carving the maxillary lateral incisor. Carving in modeling clay	LW
	Guides and features of carving the maxillary canines. Carving in modeling clay	LW
	Guides and features of carving the mandibular canines. Carving in modeling clay.	LW
	Guides and features of carving the maxillary first premolar. Carving in modeling clay	LW
	Guides and features of carving the maxillary second premolar. Carving in modeling clay	LW
	Guides and features of carving the mandibular first premolar. Carving in modeling clay.	LW
	. Guides and features of carving the mandibular second premolar. Carving in modeling clay.	LW
	Guides and features of carving the maxillary first molar. Carving in modeling clay.	LW
	Guides and features of carving the maxillary second molar. Carving in modeling clay	LW
	Guides and features of carving the mandibular first molar. Carving in modeling clay.	LW
	Guides and features of carving the mandibular second molar. Carving in modeling clay.	LW
Final class. Test lesson.		

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	For lectures (lecture hall № 204 faculty of Russian RF language, equipped with a set of specialized furniture; whiteboard; a set of devices includes portable multimedia projector.	Set of specialized furniture. <u>Technical support:</u> – multimedia projector, – Internet access. <u>Software:</u> – Microsoft Windows, MS Office / Office 365, MS Teams
Lab work	Classrooms are located in : Agrarian and Technological Institute and Faculty of Humanities and Social Sciences . In ATI: classroom 249, 250, 251, 252 (phantom class) and 253. In HSS: classroom, 232-235 (phantom class).	Set of specialized furniture. <u>Technical support:</u> Dental Simulation Units. projector DVPH Optoma H114. Automated workplace LenovoTrinkCentre M71z. Laptop Asus X756UV Intel. Projector Acer P1285. Screen Elite Screens Spectrum Electric100V. Laptop ASUS X751LDV. All-in-one Dell Optiplex 3030. Personal computer TMO3300 i3 254. Polymerization lamps "Woodpecker".

		<p>Control units with micromotor handpiece.</p> <p>Multimedia Projector Sony VPL-C6.</p> <p>Electric screen Projecta PSECO001 Elpro electrol 160x160cm.</p> <p>DUMMIES of the patient's head for phantom works in a complete set.</p> <p>Electrically operated dental chair with programmable position.</p> <p>Doctor's blocks in the configuration.</p> <p>Monitor 17" BenQ сч.1472.</p> <p>Tripod screen Projecta, 180x180.</p> <p>controlled dental unit with 2 handpieces and air syringe</p> <p>handpieces «ДАРТА 1440».</p> <p>Maxilla and mandible models with articulator.</p> <p>Cabinet for storage of sterile tools.</p> <p>Instruments used in conservative, prosthetic, and surgical dentistry.</p> <p>Supplies: gypsum, wax, casting masses, filling materials, etc.</p> <p><i><u>Information stands and expositions:</u></i></p> <p>– information stands in Russian language and English.</p>
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		– visual aids, posters, dummies.
Computer Lab	Not provided	
Self-studies	Places for self-studies medical institute, ATI, HSS, RF, as well as the halls of the Scientific Library in the Main Building of RUDN University.	

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Propaedeutics of dental diseases. Ed. S.N. Razumova [and others]; Ed. S.N. Razumova, I.Yu. Lebedenko, S.Yu. Ivanova. -M.: GEOTAR-Media, 2019. - 336 p.: ill. - ISBN 978-5-9704-4932-5
2. Anatomy of the oral cavity and teeth: Study guide -: Kozlov Valentin Ivanovich. / V.I. Kozlov, T.A. Tsekhmistrenko. Moscow: RUDN University, 2018. - 156 p.: ISBN 978-5-209-08288-0
3. Anatomy, physiology and biomechanics of the dental system [Electronic resource]: Textbook. - 2nd ed., corrected. - / V.P. Mitrofanenko SPb. : Publishing house "Lan", 2016. - 304 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-2030-8.

Additional readings:

1. Anatomy of human teeth. /Tutorial. I.V. Gaivoronsky., T.B. Petorov. St. Petersburg. 2005
2. Identification of a person by the structural features of the teeth and dentition [Electronic resource]: Textbook / Electronic text data. - E.Kh. Barinov [i dr.]. - M.: Publishing House of RUDN University, 2019. - 128 p. : ill. - ISBN 978-5-209-09407-4.
3. Teeth modeling methodology [Text/electronic resource]: Monograph / Electronic text data. F.Yu. Daurova, S.V. Weitz, Z.S. Kodzaeva. - - M.: Publishing House of RUDN University, 2018. - 204 p.: ill. - ISBN 978-5-209-08922-3
4. Artistic modeling and restoration of teeth: Textbook for universities / - 3rd ed. - L.M. Lomiashvili, L.G. Ayupova. M.: Medical book, 2008. - 288 p.: ill. - ISBN 978-5-86093-199-9: 1821.73.
5. Clinical anatomy and histology of human permanent teeth [Text]: Educational and methodical manual / PFUR; S.A. Teodorovich, N.A. Kozionova M.: RUDN University, 2008. - 39 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"

Electronic libraries with access for RUDN students	http://lib.rudn.ru/MegaPro/Web
Telecommunication Training and Information System (TTIS)	http://esystem.pfur.ru
Online university library	http://www.biblioclub.ru
Electronic library Wellcome Library	https://wellcomecollection.org/
Consilium Medicum [electronic resource]: database / "Consilium Medicum". - PΦ, 1999. – electronic resources for learning and scientific activities	http://con-med.ru/
Electronic libraries Russian state library	http://www.rsl.ru/
Electronic library for textbooks	http://studentam.net/
Scientific electronic library	http://elibrary.ru/defaultx.asp
Bentham Sciences [electronic resource]: database / Bentham Science Publishers. - United Arab Emirates. – electronic resource for scientific activities	http://www.benthamscience.com
European electronic library Europeana	http://www.europeana.eu/portal/

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/>

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

The set of lectures on the course “Dental modelling of teeth”

* 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.

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

The assessment toolkit and the grading system* to evaluate the competences formation level (GPC-8) upon the course study completion are specified in the Appendix to the course 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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of dental diseases

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position, department

signature

name and surname

Assistant of the Department of
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