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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

Maxillofacial Prosthodontics

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

1. COURSE GOAL(s)

The goal of the course "Maxillofacial prosthetics" is to acquire of theoretical knowledge and practical skills in maxillofacial prosthetics in the section of the discipline of prosthetic dentistry in the specialty "Dentistry", necessary for a dentist in clinic and hospital.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) «**Maxillofacial Prosthodontics**» is aimed at the development of the following competences /competences in part: GC-1, GPC-5, 6, PC-1, 2, 6.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
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-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-5.8. 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.

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-6	Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	GPC-6.1. Developing a plan for dental disease treatment taking into account the diagnosis, age and clinical picture 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 medical care standards.
		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.
PC-1	Being able to make an examination of a patient in order to determine a diagnosis.	PC-1.1. Making an initial examination and/or reexamination of a patient in order 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 in order 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 on the basis of 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 in order to make a preliminary/final diagnosis.
		PC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental

Competence code	Competence descriptor	Competence formation indicators (within this course)
		examinations.
PC-2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.6. Providing prosthodontic treatment for persons with defects in teeth, dentition within the temporization procedure, rehabilitation of single defects in the dentition, dental prostheses of up to three units (excluding dental implants prosthetics), partial and complete removable laminar denture using modern treatment methods approved for use in medical practice.
PC-6	Being able to analyze and present in public medical information based on evidence-based medicine, participate in scientific research, introduce new methods and techniques aimed at protecting public health	PC-6.1. Searching for medical information based on evidence-based medicine, interpreting data from scientific publications and/or preparing a presentation to make medical information, the results of scientific research public.

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*
GC-1	GC-1. Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	<ul style="list-style-type: none"> • Prosthodontics (basics) • Prosthetic rehabilitation of edentulous patients • Prosthodontics (advanced) • Gnathology and functional analysis of temporomandibular joint 	-
GPC-5	GPC-5. Being able to examine patients to determine a diagnosis when solving professional tasks	<ul style="list-style-type: none"> • Prosthodontics (basics) • Prosthetic rehabilitation of edentulous patients • Prosthodontics (advanced) Gnathology and functional analysis of temporomandibular joint	-
PC-1	PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	<ul style="list-style-type: none"> • Prosthodontics (basics) • Prosthetic rehabilitation of edentulous patients • Prosthodontics (advanced) Gnathology and functional analysis of temporomandibular joint	-
PC-2	PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	<ul style="list-style-type: none"> • Prosthodontics (basics) • Prosthetic rehabilitation of edentulous patients • Prosthodontics (advanced) Gnathology and functional analysis of temporomandibular joint	-

PC-6	PC-6. Being able to analyze and present in public medical information based on evidence-based medicine, participate in scientific research, introduce new methods and techniques aimed at protecting public health	<ul style="list-style-type: none"> • Prosthodontics (basics) • Prosthetic rehabilitation of edentulous patients • Prosthodontics (advanced) Gnathology and functional analysis of temporomandibular joint	-
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4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course 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
		10
Contact academic hours	51	51
including:		
Lectures (LC)		
Lab work (LW)	51	51
Seminars (workshops/tutorials) (S)	-	-
Self-studies	18	18
Evaluation and assessment (exam/passing/failing grade)	3	3
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
Section 1. Features of prosthetic treatment of patients with injuries and post-	Topic 1.1. General concepts of maxillofacial prosthetics. Basic principles. Methods of clinical examination of patients with injuries and defects of the jaws and face. Classification of dentoalveolar and maxillofacial prostheses, retention methods. Obtaining a plaster facial mask.	LW
	Topic 1.2. Familiarization with main complications of jaw fractures.	LW

traumatic deformities and defects of the maxillofacial region	Typical displacement of jaw fragments in non-gunshot trauma. Reading radiographs with fractures and defects of the jaws. Prosthetics for malunited fractures, pseudoarthrosis, microstomia. Placement of teeth in a maxillofacial prosthesis with a double lower dental row in case of malunited fracture.	
Section 2. Features of prosthetic treatment of patients with gunshot injuries and post-traumatic deformities and defects of the maxillofacial region	Topic 2.1. Tasks of the prosthetic stage in the complex rehabilitation of patients with gunshot injuries of the maxillofacial region. Transport immobilization for jaw fractures. Familiarization with various types of dentoalveolar appliances and prostheses: repositioning, fixing, replacing, and combined types for upper jaw, lower jaw, and both (edentulous) jaws. Obtaining a combined facial mask (alginate + plaster).	LW
Section 3. Features of prosthetic treatment of patients with congenital defects of the alveolar process and palate.	Topic 3.1. Features of congenital partial and complete clefts of the lip and palate, clinical presentation, staging of comprehensive treatment, features of prosthetics for adult patients with congenital palate defects according to the concept of an artificial external skeleton. Virtual modeling of a prosthesis for congenital cleft of the alveolar process and palate in the Avantis 3D program.	LW
Section 4. Features of prosthetic treatment of patients with postoperative palate defects in cancer patients.	Classification of acquired palate defects. Place and significance of the orthopedic stage in comprehensive treatment of patients with palate defects of oncological (postoperative) origin. Features of clinical stages of manufacturing an obturator prosthesis. Fabrication of a hygienic obturator from silicone.	LW
Section 5. Facial prostheses. Basic principles of nose, eye, ear prosthetics.	Types of facial prostheses and methods of their fixation. Familiarization with techniques for manufacturing silicone facial prostheses. Virtual modeling of an auricular prosthesis by mirror reflection of the healthy ear of the patient's virtual double. Direct virtual modeling to correct a nasal defect on the face of the patient's virtual double using computer modeling tools.	LW
	Technologies for manufacturing eye and nose prostheses. Retention methods. Materials for manufacturing facial prostheses. Familiarization with the technique of adhesive fixation of silicone nasal and auricular prostheses. Familiarization with rules for care of facial prostheses.	
Section 6. Prevention of sports injuries of teeth and jaws.	Types of mouthguards for prevention of dental sports injuries. Familiarization with principles of modeling a stomatognathic neuromuscular mandibular positioner. Techniques for manufacturing a boxing mouthguard. Wax modeling of a stomatognathic neuromuscular positioner.	LW

* - 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

Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
Self-studies	An auditorium for independent work of students (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.	

<p>Lab-work</p>	<p>An auditorium for laboratory work, individual consultations, current control and intermediate certification, equipped with a set of specialized furniture: a double student desk -14, a chair for a teacher, a metal cabinet for storing equipment, a built-in cabinet for materials and tools -6 pcs, a sink, a mobile a trash can with a lid of at least 200 liters, a glass cabinet for visual aids, a four-section metal safe for storing tips and burs. Technical means used to present educational information: LCD panel, personal computer-monoblock, video camera on a tripod, sets of educational and visual aids (types of dentures), radiographs of MRI and CBCT images on paper and on CD, providing thematic illustrations.</p>	<p>EQUIPMENT AND INSTRUMENTS (for group of 14):</p> <ol style="list-style-type: none"> 1. Desktop plastic head phantom – 14 units 2. Silicone bowl for mixing plaster – 14 units 3. Spatula for mixing alginate – 14 units 4. Measuring cups for powder and water (set) – 14 units 5. Electronic household scales, 500 g capacity – 14 units 6. Office (plaster) table – 14 units 7. Plaster mixing station with sink and plaster trap – 1 unit 8. Medical scissors – 14 units 9. Screen and projector or LCD panel – 1 unit 10. All-in-one computer or laptop – 15 units 11. AFS device – 1 unit 12. Vernier caliper – 14 units 13. Electric spatula – 14 units 14. 3L kettle – 1 unit 15. Metal piston thermos, 5L – 1 unit 16. Computer program "Meshmixer" – 15 licenses 17. Vacuum former – 4 units 18. Avantis 3D software – 15 licenses 19. Dental laboratory spatula – 14 units 20. Surgical scissors – 14 units <p>CONSUMABLES (per student):</p> <ol style="list-style-type: none"> 1. Colored pencils, set of 6 – 14 sets 2. Disposable wooden spatulas – 2 units 3. Alginate impression material – 400 g 4. C-Silicone impression material "Belast 0" + catalyst – 30+10 g 5. Medical plaster – 700 g 6. Baseplate wax – 30 g 7. Vaseline – 15 g 8. Cotton pads – 5 units 9. Paper napkins – 4 units 10. Disinfectant wipes – 4 units 11. Vacuum former film – 1 unit 12. Elastic vacuum former film – 1 unit 13. Adhesive for fixation of facial prostheses – 5 ml 14. Hygienic dental floss – 30 cm 15. Self-adhesive sealing tape for windows – 50 cm 16. Non-sterile wide bandage – 1 unit 17. Wide plastic cocktail straw – 0.5 unit 18. Artificial teeth set (44,45,46,47) – 1 set 19. Standard thermoformable boxing mouthguards – 0.1 unit 20. Disposable wooden spatulas – 2 units <p>TEACHING AIDS (for group of 14):</p> <ol style="list-style-type: none"> 1. Silicone nasal prosthesis – 3 units
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		2. Silicone auricular prosthesis – 4 units 3. Eye prosthesis – 4 units 4. Dentoalveolar prostheses (repositioning, fixing, forming, replacing) – 1 each 5. Obturator prostheses – 14 units 6. Obturator prosthesis with hollow bulb, 3D-printed – 2 units 7. Plaster model of upper jaw with palate defect – 14 units 8. Removable plate denture for lower jaw with malunited fracture (with double dental row) in articulator for tooth placement – 14 units 9. Diagram of auricle structure – 14 units 10. Diagram of mandible, ventral view – 14 units 11. Diagram of mandible, dorsal view – 14 units 12. Illustrated step-by-step guide to Avantis 3D program 13. Plastic models in occludator for modeling stomatognathic neuromuscular positioner
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7. RECOMMENDED SOURCES FOR COURSE STUDY

Main readings:

1. Equine Dentistry and Maxillofacial Surgery / Edited by Jack Easley, Padraic Dixon and Nicole du Toit . - Электронные текстовые данные. - Cambridge Scholars Publishing, 2022. - 799 с. URL: https://mega.rudn.ru/MegaPro/UserEntry?Action=Link_FindDoc&id=513662&db=0
2. Orthopedic dentistry [Electronic resource]: Textbook / Ed. I.Yu. Lebedenko, E.S. Kalivrajyan. - M. : GEOTAR-Media, 2016. - 640 p. - ISBN 978-5-9704-3722-3.
3. Dental technology [text]: Textbook for universities / Ed. M.M.Rasulova, T.I.Ibragimova, I.Yu.Lebedenko, . - M. : MIA, 2005. - 448 p. : ill. - ISBN 5-89481-311-5: 320.00.
4. Maxillofacial orthopedic dentistry. Zhulev E.N., Arutyunov S.D., Lebedenko I.Yu. M.: Medical Information Agency, 2008. - 160 p.

Additional readings:

1. Bulgakov Vsevolod Sergeevich. Rol' dispanserizacii k klinike ortopedicheskoy stomatologii pri protezirovanii s ispol'zovaniem implantatov / V.S. Bulgakov, T.V. Lukyanova, I.I. SHakerov // Vestnik Rossijskogo universiteta druzhby narodov: Medicina. - 2010. - №1. - S. 125 - 129.
2. Obsledovanie bol'nogo v klinike ortopedicheskoy stomatologii. Testy [Tekst] : Uchebnometodicheskoe posobie / RUDN; Sost. V.S.Bulgakov, SH.H.Saakyan. - M. : Izd-vo RUDN, 2007. - 20 s.

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
- 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/>

Educational and methodological materials for independent work of students in the development of the discipline of the discipline "Maxillofacial prosthetics":

1. Electronic versions of textbooks
2. Presentations on the topics of the classes
3. Video materials

posted in accordance with the current procedure on the discipline page in TUIS!

1. A course of lectures on the discipline "_____".
2. Laboratory workshop on the discipline "_____" (in the presence of laboratory work).
3. Guidelines for the implementation and execution of a term paper / project in the discipline "_____" (if there is a CG / CP).
- 4.

* - all educational and methodological materials for independent work of students are placed in accordance with the current procedure on the page of the discipline in TUIS!

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 (GC-1, GPC-5, GPC-6, PC-1, PC-2, PC-6) 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:

Professor of the department of prosthetic dentistry		M. V. Bykova
_____	_____	_____
position, department	signature	name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

Head of Department of prosthetic dentistry Professor		I. Yu. Lebedenko
_____	_____	_____
name of department	signature	name and surname

HEAD

OF HIGHER EDUCATION PROGRAMME:

Deputy Director of Institute of Medicine for Academic Affairs in the field of Dentistry		S. N. Razumova
_____	_____	_____
position, department	signature	name and surname