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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

Prosthodontics of Edentulous Patient

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

2025

1. COURSE GOAL(s)

The goal of the course « **Prosthodontics of Edentulous Patient** » is to equip students with knowledge and skills in the field of prevention, diagnosis, prosthetic methods of treatment of dentoalveolar diseases; ability of providing outpatient prosthetic care for patients with complete absence of teeth.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course « **Prosthodontics of Edentulous Patient** » 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	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	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	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	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 examinations.

Competence code	Competence descriptor	Competence formation indicators (within this course)
PC-2	PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.6. Providing orthopaedic 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.	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.	Cariesology and diseases of tooth hard tissues Fixed prosthodontics (simple prosthodontics)	Complex prosthodontics Gnathology and functional diagnostics of temporomandibular joint
GPC-5	GPC-5. Being able to examine patients to determine a diagnosis when solving professional tasks	Cariesology and diseases of tooth hard tissues Fixed prosthodontics (simple prosthodontics)	Complex prosthodontics Gnathology and functional diagnostics of temporomandibular joint
GPC-6	GPC-6. Being able to prescribe non-drug and drug treatment, monitor its efficacy and safety when solving professional tasks	Cariesology and diseases of tooth hard tissues Fixed prosthodontics (simple prosthodontics)	Complex prosthodontics Gnathology and functional diagnostics of temporomandibular joint
PC-1	PC-1. Being able to make an examination of a patient in order to determine a diagnosis.	Cariesology and diseases of tooth hard tissues Propaedeutics of dental diseases Fixed prosthodontics (simple prosthodontics)	Complex prosthodontics Gnathology and functional diagnostics of temporomandibular joint
PC-2	PC-2. Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	Cariesology and diseases of tooth hard tissues Propaedeutics of dental diseases Fixed prosthodontics (simple prosthodontics)	Complex prosthodontics Gnathology and functional diagnostics 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	Cariesology and diseases of tooth hard tissues Propaedeutics of dental diseases Fixed prosthodontics (simple prosthodontics)	Complex prosthodontics Gnathology and functional diagnostics of temporomandibular joint

	techniques aimed at protecting public health		
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4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course is 3 credits (108 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
			6
Classroom learning , ac.h.			
including			
Lectures (LC)			
Lab work (LW)		54	54
Seminars (workshops/tutorials) (S)		-	-
Self-studies, academic hours		48	48
Evaluation and assessment (exam or pass/fail grading)		6	6
Total workload of the discipline	ac.h.	108	108
	credits	3	3

* 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
Module 1 Methods of survey, diagnostics of patients with edentulous jaws	1.1. Peculiarities of clinical survey of patients with edentulous jaws. Definition of morphological peculiarities hard and soft tissues of prosthetic field, the degree of atrophy of the bone tissue of the alveolar processes and the body of the jaws, compliance of mobility of the mucosa. Classification of edentulous jaws. Compliance and mobility of the oral cavity mucosa. Classification of mucosa by Supple. Zones by Lund. Buffer zones by Gavrilov. Structure and relation of edentulous jaws.	LW
Module 2 Methods of prosthetic treatment of patients with edentulous jaws		

Course module title	Course module contents (topics)	Academic activities types
	impression, materials. Individual trays, characteristics, methods of fabrication and materials that are used. Adjustment of individual trays by Gerbst. Impression materials. Obtaining and assessment of functional impressions. Justification of the choice of impression material for getting functional impressions. The borders of denture's basis with edentulous jaws. Fabrication of wax rims. Determination of centric relation with edentulous jaws. Anatomic – physiological method of recovery of jaws relation of lower part of the face. Rules of occlusion and articulation of teeth. Design of dentition with edentulous jaws in orthognatic bite. Features of setting teeth in orthognatic and progenic relations of alveolar processes. «Spherical» theory of articulation, it's realisation in practical recovery of dentitions with edentulous jaws. Try-in of wax construction of complete dentures. Analysis and correction of doctors' and dental technician mistakes in determination of centric relation. Delivery of full dentures. Rules of maintenance and adjustments of full dentures. Patient follow-up. Adaptation to complete dentures.	
Module 3 Clinical and laboratory stages of manufacturing complete dentures	Injection molding of acrylic resin. Methods of flasking of dentures. Types of resin for denture base. Polymerization mode. The consequences of violating the polymerization mode. Clinical and laboratory stages of manufacturing of complete denture with various base (acrylic, double-layered, replication of palatal rugae). The peculiarities of prosthetic treatment of toothless patients with the decreased vertical dimension of occlusion (VDO), secondary prosthetic treatment, mucosal diseases and gag reflex. Bilayer basis of complete dentures with edentulous jaws. Indications, manufacturing procedure.	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

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia	
Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
	presentations.	

Lab-work №1	An auditorium for laboratory work, individual consultations, current control, and intermediate certification, equipped with a set of specialized furniture and equipment.	student's double desk -13, teacher's chair -2; LCD panel, personal computer-monoblock, video camera on a tripod, metal cabinet for storing equipment, built-in cabinet for materials and tools -6 pcs, sink, mobile trash can with a lid for at least 200 liters, glass cabinet with visual aids - types of dentures. Safe metal four-section for storing tips and burs Specialized educational/laboratory equipment and materials:. Photopolymerizer for individual spoons -7. Dental motors - 14. Dental electric spatulas - 14 pcs. Water baths -4 pcs. Stands with types of dentures and tools. Naish apparatus - 7 Apparatus Larina -7 Functionograph – 1 per group Instruments: Diagnostic models with complete absence of teeth - 14 sets each. Samples of complete removable dentures: – 14 sets Base wax - 12 sets Silicone corrective impression mass, 300 g per group Impression trays for edentulous upper and lower jaws, 14 each Light-curing plates for individual spoons, 2 per student Vaseline oil - 14 bottles with brushes Glass for kneading silicone mass - 14 Plasticine in different colors - 7 sets per group Cutters for plastic processing -14
Lab-work №2	An auditorium for laboratory work, individual consultations, current	15 sets of specialized furniture - tables under
Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)

	control and intermediate certification, equipped with a set of specialized furniture and equipment.	simulators and dental simulators "Saratoga S.p.a" (body made of steel, painted with powder enamel, countertop made of artificial stone, table lamp, Philips monitor, retractable units for the doctor [2 M4 turbine hoses] and assistant [multifunction gun, saliva suction, vacuum cleaner], multifunctional pedal , Venturi aspiration system with a centralized electric pump, FRASACO dental models-phantoms (Germany) on a minitorso with an articulator, FRASACO models of edentulous upper and lower jaws with a face mask and pneumatic or mechanical adjustment of the phantom position along 2 axes in the form of a long table for 12 places for vis-a-vis and 2 quadruple modules in the form of "chamomile" Wooden chair with a back on wheels for a dental technician -20 pcs.. Special sink made of stainless steel with two sinks and a gypsum trap. Gypsum tables for 14 jobs. Mobile trash bin with 250 liter lid. Dental chair with a lamp and a Frasaco phantom chair with an articulator, models of edentulous upper and lower jaws, a face mask and mechanical adjustment of the phantom position along 2 axes. Wall screen and multimedia projector Epson. Dell LCD panel with a diagonal of at least 120cm. Specialized educational/laboratory equipment and materials: • Portable vibrating table - 4 • Trimmer -1 • Vacuum plaster mixer - 1
Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)

		• Scales for gypsum • Steam-jet apparatus for cleaning dentures - 1 Instruments: • Disposable examination sets 400 sets • Tips straight -14 • Cutters for plastics processing 14 • Models of edentulous upper and lower jaws - 14 sets • Spatulas for kneading gypsum - 14 • Silicone flasks for mixing gypsum-14, • Knife for plaster - 14 • Dental spatula - 14 pcs. • Table lamps on brackets - 14 pieces • Toothless impression trays for the upper and lower jaws, metal, perforated, 14 per subgroup • Alginate mass 200 g per student • Gypsum 2 class 500 g per student • Garniture teeth for setting on the upper and lower jaws 28 pcs - 14 sets per group • Articulating paper 100 microns thick - 2 sheets per student
Seminar	An auditorium for conducting seminar-type classes, group and individual consultations, current control and intermediate certification, equipped with a set of specialized furniture and technical means for multimedia presentations.	List of specialized equipment, stands, visual posters, etc.
Computer -lab	A computer class for conducting classes, group and individual consultations, current control and intermediate certification, equipped with personal computers (in the amount of __15__pcs.), a board (screen) and technical means of multimedia presentations.	Software: • Microsoft Office: PowerPoint, Word
Self-studies	An auditorium for independent work of students (can be used for seminars	
Classroom type	Equipment of the classroom	Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)
	and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.	

7. RECOMMENDED SOURCES for COURSE STUDIES

Main readings:

1. Orthopedic dentistry: textbook / S.D. Arutyunov, E.A. Bragin, S.I. Burlutskaya [and others]; edited by E.S. Kalivradjian, I.Yu. Lebedenko, E.A. Bragin, I.P. Ryzhova. - 3rd ed., Rev. and add. - M.: GEOTAR-Media, 2020 .-- 800 p. : ill. - ISBN 978-5-9704-5272-1: 2200.00.
2. A guide to practical exercises in prosthetic dentistry: for students of the 3rd year: Textbook for students, training. by special 060105 (040400) - Dentistry / Ed. I.Yu. Lebedenko.- M .: Practical medicine, 2012.- 368 p .: ill.

Additional readings:

1. Recording and maintaining a medical record in the clinic of orthopedic dentistry: Textbook / Ed. T.I. Ibragimov. - M .: GEOTAR - Media, 2013. - 223 p.
2. Orthopedic dentistry: national leadership / ed. I.Yu. Lebedenko, S. D. Arutyunova, A.N. Ryakhovsky. - GEOTAR - Media, 2016 .-- 824 p.
3. Zagorskiy V.A. Prosthetics with complete adentia: a guide for physicians.- M .: Medicine, 2008. - 376p.
4. Orthopedic treatment of patients with complete absence of teeth: textbook. allowance: [in the specialty 060105 (040400) "Dentistry"] / A. P. Voronov, I. Yu. Lebedenko, I. A. Voronov. - 2nd ed., Rev. and add. - Moscow: MEDpress-inform, 2009 .-- 343 p. : col. ill., tab. - ISBN 5-98322-551-0

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 "Prosthodontics of edentulous patient":

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, 6, PC- 1, 2, 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

position, department

signature

Bykova M. V.

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:
of Prosthetic Dentistry

name of department

signature

Lebedenko I. Yu.

name and surname

**HEAD
OF HIGHER EDUCATION PROGRAMME:**
First Deputy Director of

Medical Institute for academic
affairs

position, department

signature

Razumova S.N.

name and surname

**Fund of assessment tools for carrying out the intermediate certification for the discipline
(module)**

Table № 1.

Assessment tools	Quantity
Control questions	40
Tasks in the test form	95
Case study	21

**Standard control tasks or other materials necessary for the assessment of knowledge and skills
that characterize the stages of the formation of competencies**

Tasks in the test form (example)

1. Morphological changes of jaws after complete loss of teeth

- 1) increase in amplitude and changing nature of the movements of a mandible
- 2) atrophy of the alveolar process of the jaws
- 3) anterior shift, inclined forward a mandible
- 4) atrophy of a mandibular branches and body, increasing the angle of a mandible
- 5) 1 + 2 + 3
- 6) 2 + 3
- 7) 1 + 2 + 3 + 4

2. Functional changes of jaws after complete loss of teeth

- 1) atrophy of the upper jaw, deepening of the canine fossa
- 2) increase in amplitude and changing nature of the movements of a mandible
- 3) atrophy of the alveolar process of the jaws
- 4) anterior shift, inclined forward a mandible
- 5) 1 + 2 + 3 + 4
- 6) 1 + 3
- 7) 2 + 4

3. With complete absence of teeth on the upper jaw, atrophy is more pronounced

- 1) on the vestibular slope of the alveolar process
- 2) on the palatal slope of the alveolar process
- 3) on the lingual surface of the alveolar process
- 4) on the vestibular and palatal slopes of the alveolar process

1.1.1. Situational task (example)

Task №1. (PC-5, 6, 8, 9)

Patient V., aged 60, went to a clinic with the purpose of prosthetics. There was a violation of chewing, speech, aesthetic deficiency of appearance, the expression of chin and nasolabial folds, complete absence of teeth, progenic ratio of jaws.

1. The reason of the expression of nasolabial and chin folds?

Answer: Decrease the height of the lower third of face

Task 2. (PC-5, 6, 8, 9) When examining the oral cavity in the patient D. was noted the presence of mobile strands of the mucous membrane, located longitudinally alveolar ridge and easily displaced with a slight touch. Conduct an assessment of the condition of the mucous membrane of the prosthetic support tissues on the basis of the classification of Supple.

Answer: 4 class

1.1.2. Control questions

Assessment of the condition of the mucous membrane of the prosthetic support tissues on the basis of the classification of Supple. (PC-5, 6, 8, 9)

Answer: 4 class

1.2. Procedure, criteria and scale of assessment of intermediate attestation

Intermediate attestation of the discipline is carried out in the form of exam. The exam consists of testing and the interview.

The order of carrying out the intermediate certification:

1. Testing of students
2. Interviewing

The exam is held at the end of the semester.

The points scored by the student during the semester or at the end of the study of the discipline are translated into assessment according to the rules established in Table No. 10.

Таблица № 10

Score system of knowledge assessment				
Points of Score –Rating System	Traditional grades in RF	Points to transfer grades	Grades	ECTS grades
86 – 100	5	95 – 100	5+	A
		86 – 94	5	B
69 – 85	4	69 – 85	4	C
51 – 68	3	61 – 68	3+	D
		51 – 60	3	E
0 – 50	2	31 – 50	2+	FX
		0 – 30	2	F
51 – 100	Passed	51 – 100	Passed	Passed

Description of ECTS grades

A — Excellent (5+)

The theoretical content of the course has been mastered completely without gaps. The necessary practical skills with the mastered material have been formed. All the training tasks provided by the training program have been fulfilled, the quality of their implementation is assessed by the number of points close to the maximum. Student has a command of supplementary material that is not included in the training course.

B — Very good (5)

The theoretical content of the course has been mastered completely without gaps. The necessary practical skills of working with the mastered material have been basically formed. All the training tasks provided by the training program have been fulfilled, the quality of performance

of most of them is assessed by the number of points close to the maximum. Command of some additional information not included in the training course.

C — Good (4)

The theoretical content of the course has been mastered completely, without gaps. Some practical skills of working with mastered material have not been sufficiently formed. All training tasks provided by the training program have been fulfilled, the quality of performance of none of them has been assessed by the minimum number of points. Some types of tasks have been completed with mistakes. Confident knowledge, limited curriculum material.

D — Satisfactory (3+)

The theoretical content of the course has been partially mastered, but the gaps are not significant. The necessary practical skills of working with the mastered material have been basically formed. Most of the training tasks included in the training program have been completed. Some of the completed tasks may contain mistakes.

E — Mediocre (3)

The theoretical content of the course has been partially mastered. Some practical skills are not formed. Most training tasks provided by the training program have not been fulfilled, or the quality of performance of some of them was estimated by the number of points close to the minimum.

FX — Conditionally unsatisfactory (2+)

The theoretical content of the course has been partially mastered. The necessary practical skills are not formed. Most educational tasks provided by the training program have not been fulfilled, or the quality of their implementation is assessed by the number of points close to the minimum. With additional independent work on the course material it is possible to improve the quality of the performance of educational tasks.

F — Certainly unsatisfactory (2)

The theoretical content of the course has not been mastered. The necessary practical skills have not been formed. All completed assignments contain blunders. Additional independent work on the course material will not lead to any significant improvement in the quality of the training tasks.