

Документ подписан простой электронной подписью
Информация о владельце:
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Должность: Ректор
Дата подписания: 28.05.2026 12:33:12
Уникальный программный ключ:
ca953a0120d891083f939673078ef1a989dae18a

**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 (complex prosthetics)

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:

higher education programme profile/specialisation title

2026

1. COURSE GOAL(s)

The goal of the course "Prosthodontics (complex prosthetics)" is to train a dentist who is able to diagnose and plan the prosthetic stage of the complex treatment of patients with diseases of the dentition, taking into account the individual characteristics of the disease and the age of the patient.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Prosthodontics (complex prosthetics)" is aimed at the development of the following competences /competences in part: GC-1, GPC-5,GPC-6, PC-1, PC-2, PC-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. Analyzing the problem situation as a system identifying its components and links between them.
GPC-5	Being able to examine a patient to determine a diagnosis while solving professional tasks	GPC-5.1. Gathering anamnesis by analyzing the patient's complaints, making a physical examination at a dental appointment.
		GPC-5.2. Formulating a preliminary diagnosis and deciding on 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 according to the current international classification of diseases and health problems.

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 considering 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 considering 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 to determine a diagnosis.	PC-1.1. Making an initial examination and/or reexamination of a patient 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 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 based on 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 to make a preliminary/final diagnosis.
		PC-1.5. Making a preliminary/final diagnosis based on the patient examination; laboratory and instrumental examinations.

PC-2	Being able to prescribe, monitor the efficacy and safety of non-drug and drug treatment	PC-2.6. Providing prosthetic 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*
CC-1.	Able to carry out a critical analysis of problem situations based on a systematic approach, to develop an action strategy.	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint
GPC-5.	Able to conduct a patient examination in order to establish a diagnosis in solving professional problems	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint

GPC-6.	Able to prescribe, monitor the effectiveness and safety of non-drug and drug treatment in solving professional problems	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint
PC-1.	Able to conduct examination of the patient to establish a diagnosis.	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint
PC-2.	Capable of prescribing, monitoring the efficacy and safety of non-drug and drug treatments	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint
PC-6.	Able to analyze and publicly present medical information based on evidence-based medicine, to participate in scientific research, to introduce new methods and techniques aimed at protecting public health	<ul style="list-style-type: none"> • Cariesology and the disease of hard dental tissues. • Prosthodontics (simple prosthetics) 	<ul style="list-style-type: none"> • Prosthodontics (complex prosthetics) • Gnathology and functional diagnostics of temporomandibular joint

* 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 "Prosthodontics (complex prosthetics)" 8 credits (288 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			
		7	8	9	
Classes (total) ac.h.	187	51	51	85	
Including:					
Lectures (LC)					
Lab work (LW)	187	51	51	85	
Seminars (workshops/tutorials) (S)					
<i>Self-studies</i>	65	18	15	32	
<i>Evaluation and assessment (exam/passing/failing grade)</i>	36	3	6	27	
Total course workload	academic hours	288	72	72	144
	credits	8	2	2	4

* 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
Section 1. Replacement of dentition defects with fixed prosthodontics structures	Topic 1.1. Features of examining patients with partial tooth loss when planning orthopedic treatment with removable dentures. Indications and contraindications for removable dentures. Borders of denture bases. Mastering the technique of obtaining alginate impressions and working plaster models for manufacturing partial removable plate dentures. Obtaining alginate impressions and plaster models of the antagonistic dental arch.	LW
	Topic 1.2. Clinical stages of orthopedic treatment with removable plate dentures for partial tooth loss. Rules for conducting the stage of registering central occlusion and central jaw relation for various dentition defects. Mastering the technique of manufacturing wax occlusal rims on a rigid plastic base and registering central occlusion.	
	Topic 1.3. Materials and methods for manufacturing bases of partial removable plate dentures: wax replacement with plastic by flask pressing, CAD/CAM milling and 3D printing methods, advantages and disadvantages. Domestic materials for 3D printing of denture bases. Mastering the technique of selecting artificial tooth sets for partial removable plate dentures by size, shape, and color.	
	Topic 1.4 Methods of fixing partial removable plate dentures for partial tooth loss. Types of clasps and clasp fixation on upper and lower jaws. Mastering the technique of bending a wrought wire retentive clasp. Mastering the technique of fitting removable plate	

	dentures for partial dentition defects. Quality criteria.	
	Topic 1.5 Removable plate immediate dentures. Indications for use. Features of clinical stages of manufacturing immediate dentures. Mastering the technique of clinical repair of a removable plate denture – adding an artificial tooth.	LW
	Topic 1.6 Possible complications when prosthetically treating patients with partial tooth loss with removable plate dentures, differential diagnosis, prevention, and methods of eliminating consequences. Mastering the technique of determining zones of excessive pressure under the denture base. Features of the rehabilitation and preventive stage of prosthetics with partial removable plate dentures. Clinical protocol of the Russian Dental Association for orthopedic treatment of patients with partial tooth loss.	
	Topic 1.7 Types of removable dentures for partial tooth loss – clasp (framework, tooth-supported) dentures, fundamental differences from plate dentures. Indications for use, main structural elements. Types of retentive-supporting clasps. Clinical stages of manufacturing clasp dentures. Parallelometry.	
	Topic 1.8 Clasp dentures, rules for fitting clasp denture frameworks, quality criteria, photographic documentation of framework element fit to the prosthetic bed.	
	Topic 1.9 Clasp dentures – mastering the technique of activating the retentive part of the retentive-supporting clasp with crampton forceps. Rules for use and care of clasp dentures. Features of the rehabilitation and preventive stage of prosthetics with clasp dentures.	
	Topic 1.10 Splinting clasp dentures, splinting elements, preparation of abutment teeth and antagonistic dental arches for manufacturing splinting clasp dentures, features of clinical stages of prosthetics. Intraoral scanning of dental arches with highly mobile teeth.	
Section 2. Removable denture treatment	Topic 2.1 Fixed dental prostheses in orthopedic treatment of patients with partial tooth loss. Examination methods. Clinical and biomechanical justification for using dental bridges. Indications and contraindications for using bridges. Types of dental bridges. Criteria for selecting the number of abutment teeth. Mastering the technique of intraoral scanning of dental arches and bite, analysis of diagnostic virtual models for clarifying the plan of orthopedic treatment with bridges..	
	Topic 2.2 Features of abutment tooth preparation when manufacturing dental bridges. Mastering the technique of tooth preparation for metal-ceramic bridges, obtaining alginate impressions for manufacturing provisional prostheses on plaster models. Protection of prepared dentin during prosthesis fabrication.	
	Topic 2.3 Laboratory technologies for manufacturing combined dental prostheses. Fitting the framework of a	

	<p>metal-ceramic bridge on abutment teeth using silicone impression material. Quality criteria of orthopedic treatment.</p> <p>Topic 2.4 CAD/CAM manufacturing of dental bridges. Virtual modeling of a bridge in the Avantis 3D program with careful control of dynamic occlusion. Computer milling-grinding, 3D printing, advantages and disadvantages.</p> <p>Topic 2.5 Fitting and temporary fixation of a dental bridge. Quality criteria of orthopedic treatment. Mastering the technique of removing a temporarily fixed bridge using a crown remover.</p> <p>Topic 2.6 Permanent cement and adhesive fixation of a metal-free bridge. Quality control of orthopedic treatment with bridges. Rules for care of dental bridges.</p> <p>Topic 2.7 Possible errors and complications in orthopedic treatment with bridges. Prevention, methods of eliminating consequences. Removal of bridges from abutment teeth with sectioning of abutment crowns. Indications. Clinical protocol of the Russian Dental Association for orthopedic treatment of patients with partial tooth loss.</p>	
Section 3. Prosthetic treatment of periodontal diseases	<p>Topic 3.1. Traumatic occlusion – the leading etiopathogenetic factor of periodontitis. Methods of examining patients with periodontal pathology in the clinic of orthopedic dentistry: probing (periodontal probe, "Florida Probe"), filling out Kurlyandsky's odontoparodontogram, familiarization with the periodontal diagnostic module of the Avantis 3D program, principle of operation of the Periotest device.</p> <p>Topic 3.2. Clinical and biomechanical justification of the orthopedic stage of comprehensive treatment of patients with periodontal diseases, features of designs of therapeutic devices and prostheses: temporary splinting, selective grinding of teeth, permanent splinting and prosthetics, dispensary observation with control of occlusion and hygiene. Mastering the technique of long-term splinting with reinforced composite, "van-type splinting".</p> <p>Topic 3.3. Planning the orthopedic stage of comprehensive treatment of patients with periodontitis: selection of therapeutic device design, material, manufacturing technology, staging of comprehensive treatment. Types of stabilization (splinting) of dental arches. Advantages and disadvantages of fixed and removable splints and splint-prostheses. Indications for preservation and extraction of teeth and roots in periodontitis. Overlay dentures, clinical stages of manufacturing, fixation methods. Mastering the technique of installing locking matrices of the "OT-Cap" attachment in the denture base with local relining.</p>	LW
Section 4. Prosthetic treatment of increased abrasion	<p>Topic 4.1 Etiology, pathogenetic vicious circle, classifications, clinical forms of manifestation of increased abrasion of hard dental tissues. Modern methods of diagnosing increased abrasion of hard dental tissues. Mastering intraoral scanning of dental arches, analysis of diagnostic models with increased abrasion of hard dental tissues and hardware method of electrodiagnostics of pulp vitality of abraded teeth. Formulating diagnosis, selecting</p>	LW

	treatment plan.	
	Topic 4.2 Staging of orthopedic treatment of patients with compensated form of increased abrasion of hard tissues of anterior teeth. Types of post-and-core constructions for restoring lateral teeth. Mastering the technique of obtaining silicone impressions from teeth prepared for restoration with post-and-core constructions.	
	Topic 4.3 Methods of orthopedic treatment of patients with various clinical manifestations of tooth abrasion. Mastering the technique of morpho-functional modeling of the occlusal surface when restoring teeth with increased abrasion.	
Section 5. Prosthetic treatment of deformations and anomalies of dentition and bite.	Topic 5.1 Etiology, pathogenesis, classifications, clinical forms of manifestation of deformation of dental arches and bite with partial tooth loss. Modern diagnostic methods. Mastering the technique of registering central jaw relation and analyzing diagnostic models with deformation of dental arches.	LW
	Topic 5.2 Methods of eliminating deformation and justification of management tactics for patients with deformation of dental arches. Selection of treatment plan. Mastering the technique of alternating deocclusion in the area of the tooth with Popov phenomenon.	
Section 6. Prosthetic treatment of patients with dentures supported by implants	Topic 5.1 Indications and contraindications for using dentures supported by implants. Main elements of the orthopedic instrument set for prosthetics on dental implants. Features of the IRIS dental implant system. Familiarization with the technique of obtaining impressions of the dental arch with dental implants by open-tray and closed-tray methods. Mastering the technique of screw fixation of a dental prosthesis on a dental implant using a torque wrench.	LW
	Topic 6.2 Features of clinical and laboratory stages of orthopedic treatment with removable dentures supported by implants. Mastering the technique of unscrewing the healing abutment and installing a spherical abutment on a dental implant using a torque wrench.	
	Topic 6.3 Features of clinical and laboratory stages of orthopedic treatment with fixed dentures supported by implants. Clinical stages of prosthetics edentulous patients according to the "All-on-4" system. Possible errors and complications in prosthetics on dental implants. Mastering the technique of removing a prosthesis with IRIS screw fixation.	
Section 7. Features of prosthetic treatment of patients with intolerance to dentures	Intolerance to materials and constructions of dental prostheses. Diagnosis, differential diagnosis, prevention, features of repeated prosthetics. Differential diagnosis of burning sensation in the oral cavity in the presence of a removable plate denture (role-playing game).	LR
Section 8. Aesthetic aspects of prosthetics of teeth and dental arches	Main aesthetic proportions of the face in the smile zone. Methods of assessing the quality of dental prostheses in an aesthetically significant area: photo and video diagnostics. Mastering the technique of determining tooth color parameters using the Vita 3D Master shade guide (in a special computer program). Modern hardware methods for	LW

	<p>assessing color and transparency parameters of teeth, mastering hardware methods of tooth color diagnostics. Characteristics of modern denture materials for aesthetic constructions. Modern methods of diagnosis and orthopedic treatment of patients with tooth discoloration. Mastering the technique of filling out and analyzing Ryakhovsky's estheticogram.</p>	
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* - 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	
Lab-work	An auditorium for practical work of students with computer training programs, equipped with a set of specialized furniture and computers with Internet access.	<p>Phantom workstations (14 units): with water, electricity, compressed air, and aspiration supply, local lighting, drawers for instruments and materials, dental handpiece, head phantom with silicone cheeks and dental arches (models type "Zarnitsa" ChVN 28-A in the "oral cavity")</p> <p>Instrument sets (14 units): metal examination instrument set in tray, perforated metal impression trays upper/lower arch size №3, silicone bowl for mixing plaster, spatulas, measuring cups, rubber bases, plaster knives, electronic scales, vibrating table, safety glasses, screwdrivers, turbine handpieces, occlusal mirrors, saliva ejectors, glass slabs for cement mixing, scalpels, silicone knives, articulators, dental laboratory handpieces, metal cement spatulas, wide serpentine smoothers, straight attachments for micromotors, crown removers (7 units), speed-increasing attachments, air-driven micromotors, pliers for spreading crown edges, Assistina apparatus, kettles, thermoses, electric spatulas, crampon forceps, parallelometers with</p>

		<p>accessories, periodontal probes, intraoral scanner with laptop and software (2 units), Florida Probe (1 unit), computers with Avantis 3D software (15 units), LCD panel, pulp tester, functionograph, IRIS dental implant orthopedic set, EasyShade device, E220 apparatus, light-curing lamps, protective screens for preparation</p> <p>CONSUMABLES (per student): disposable wooden spatulas, alginate impression material (300 g), silicone impression material Belast 0 + catalyst + correcting material (60+25+10 g), medical plaster (600 g), turbine diamond burs (fissure, tapered, torpedo, round), carbide burs for plastic, phantom teeth with screws and washers for ChVN-A28 models, plastic bridges, cold-cure plastic "Belacril Tempo", zinc sulfate cement, zinc phosphate cement, temporary fixation material "Tempofix", baseplate wax, medical adhesive tape, vaseline oil, vaseline, cotton pads, paper napkins, anhydrin, oil for Assistina, metal-free bridges, matrices for IRIS spherical abutments, flowable composite, C-silicone impression material, intra-canal impression posts, smoothers, dental floss, Armosplint kit, cement, glass for cement mixing, printed removable plate dentures, round clasp wire (0.8 mm diameter)</p> <p>TEACHING AIDS (for group of 14): Ryakhovsky's book "Form and Color in Dentistry", visual aid with stages of bridge fabrication, samples of metal-free bridges, plastic edentulous lower jaw model with IRIS implant analog healing abutments, IRIS implant screw-retained prosthesis on model, occludator with models showing Popov phenomenon and bridge with reinforcement, articulators with mounted functionograph, frameworks of combined bridges, OPG/OPTRG of patients with included dentition defects, overlay denture on model with magnetic attachment, Zarnitsa-type model with mobile teeth for splinting with reinforced composite, occludators with plastic models of</p>
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		partial edentulism and clasp dentures, Vita Classical and Vita 3D Master shade guides. Software: Avantis 3D, Kadiaks (Gamma Dental), Biopac (BioResearch).
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7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

8. Veeraiyan, D. N. Essentials of Prosthodontics / D. N. Veeraiyan. — New Delhi : Jaypee Brothers Medical Publishers (P) Ltd, 2024. — 492 p. — ISBN 978-93-5465-819-8.
<https://www.jaypeedigital.com/eReader/chapter/9789354658198/ch9>
9. Prosthetic 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.
10. Technology of dental and maxillary prosthetics [Text]: a guide for practical training / V. N. Trezubov, E. A. Bulycheva, S. D. Arutyunov. - Moscow: Practical Medicine, 2020 .-- 167 p. : ill., color. silt ; 25 cm. - Bibliography: p. 167 (10 titles). - 500 copies - ISBN 978-5-98811-582-3 (in translation)
11. Guide to practical exercises in prosthetic dentistry for 3rd year students / edited by I. Yu. Lebedenko, V. V. Elichev, B. P. Markov / (Authors: S. D. Arutyunov, etc.) allowance. - M. : Practical Medicine, 2006. (Part I. - 432 s).
12. Denture technology: textbook / S.D. Arutyunov, D.M. Bulgakova, M.G. Grishkina [and others]; ed. M.M. Rasulova, T.I. Ibragimova, I. Yu. Lebedenko. - 2nd ed., Rev. and add. - M.: GEOTAR-Media, 2016 .-- 384 p. - ISBN 978-5-9704-3830-5.
http://lib.rudn.ru/MegaPro/UserEntry?Action=Rudn_FindDoc&id=475755&idb=0

Additional readings:

1. Prosthetic dentistry [Text]: Textbook / V.N. Kopeikin [and others]; Ed. V.N. Kopeikina, M.Z. dental faculties of medical universities). - ISBN 5-225-04598-Mirgazizova. - 2nd ed., Add. - M.: Medicine, 2001 .-- 624 p. : ill. - (Educational literature for students 7: 276.00.56.6 - O-70
2. I.Yu. Lebedenko, T.I. Ibragimov, A.N. Ryakhovsky
Functional and instrumental research methods in prosthetic dentistry [Text]: Textbook for universities. - M.: Medical Information Agency, 2003. - 128 p. : ill. - ISBN 5-89481-135-X: 260.00.56.6 - L33.
3. Fixed prosthetics: the technology of manufacturing a steel stamped crown [Electronic resource]: Teaching aid / L.S. Sergeeva. - SPb. : Publishing house "Lan", 2018. - 52 p. - (Textbooks for universities. Special literature). - ISBN 978-5-8114-2863-2.
4. Prosthetic dentistry: national leadership / ed. I.Yu. Lebedenko, S.D. Arutyunova, A.N. Ryakhovsky. - GEOTAR - Media, 2016 .-- 824 p.
5. Prosthetic dentistry: national guidelines. Volume 2. / ed. I.Yu. Lebedenko, S.D. Arutyunova, A.N. Ryakhovsky. - GEOTAR - Media, 2022. - 416 p. ISBN: 978-5-9704-6367-3.

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 (complex 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!

1. EVALUATION MATERIALS AND SCORE-RATING SYSTEM FOR ASSESSING THE LEVEL OF FORMATION OF COMPETENCES IN THE DISCIPLINE

Evaluation materials and a score-rating system* for assessing the level of competency formation (parts of competencies) based on the results of mastering the discipline of the "Prosthodontics (complex prosthetics)" are presented in the Appendix to this Work Program of the discipline.

* - OM and BRS are formed based on the requirements of the relevant local normative act of the Peoples' Friendship University of Russia. Sections of disciplines and types of classes

DEVELOPERS:

Professor of the Department
of prosthetic dentistry

position, department

M. V. Bykova

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of prosthetic dentistry

I. Yu. Lebedenko

_____	_____	_____
name of department	signature	name and surname
 HEAD OF HIGHER EDUCATION PROGRAMME: First Deputy Director of Institute of Medicine		
_____	_____	_____
position, department	signature	name and surname

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

Table № 1.

Assessment tools	Quantity
Control questions	70
Tasks in the test form	140
Case study	10

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) (UC-1, GPC-5,6, PC-1,2,6)

1. BY KENNEDY'S CLASSIFICATION OF DENTAL DEFECTS TO THE FOURTH CLASS ARE RELETED
A) dentitions with one-sided end defects
B) dentitions with double-sided free-end saddles
C) bounded edentulous teeth of anterior area *
D) bounded edentulous teeth of posterior area

2. TO THE FIRST CLASS OF DENTAL DEFECTS BY KENNEDY'S CLASSIFICATION KENEDY ARE RELATED
A) bounded edentulous space of posterior area
B) one-sided free-end saddle
C) double-sided free-end saddle*
D) bounded edentulous teeth of anterior area

3. ONE-SIDED FREE-END SADDLE OF THE DENTITION BY KENNEDY'S CLASSIFICATION REFERS TO
A) the third class
B) the first class
C) the second class*
D) the fourth class

Case studies (example) (PC-2, PC-5, PC-6, PC-8, PC-9)

Case study No1

Patient A., aged 40, an engineer residing in the city of Solntsevo, Moscow Region, applied to the clinic of prosthetic dentistry with complaints of violation of the shape of the crowns of the upper incisors of the upper jaw with discolorations

From the anamnesis: according to the patient, the change of crowns of the front teeth arose gradually over the past two years. The patient associates this with his addiction to seeds. He

hasn't applied to the dentist before and has never used dentures, hasn't smoked, drinks coffee three times a day.

Objectively: Appearance without pathology, dentition without defects.

Teeth 1.1, 2.1 - change in shape due to the attrition of the enamel and dentin along the cutting edge more from the medial surface; tooth 3.1 - thinning of the enamel of the cutting edge due to the of the oral surface within the limits of 1.5 mm.

The phenomenon of catarrhal gingivitis, the deposition of hard and soft plaque, especially on the incisors of the mandible. Orthognathic occlusion with embrasure vertical diocclusion in the area of incisors - 1 mm, diastema - 0.3 mm.

The task:

1) Suggest additional examination methods.

The answer: EOD, target X-ray image, teeth: 2.1

2) Formulate a diagnosis.

The answer: Increased abrasion of teeth 1.1, 2.1, 3.1, localized form, horizontal I-II degree, gingivitis.

3) Suggest options for complex treatment.

The first stage:

Plan of sanitation measures:

- training in oral hygiene,
 - conducting professional oral hygiene
- The second stage: prosthetics of teeth, dentitions and jaws

Variant 1 – cosmetic filling

Variant 2 – veneers on 1.1, 2.1, cosmetic filling of 3.1

The third stage:

- Elimination of a bad habit (sunflower seeds)
- Regular (at least once a year) monitoring of oral hygiene

Test questions / tasks (example) (PC-2, PC-5, PC-6, PC-8, PC-9)

Name the form of increased abrasion of teeth. Answer: Horizontal, vertical, mixed

The procedure, criteria and evaluation scale of intermediate certification

Students study the discipline "Prosthodontics (complex prosthetics)" in three semesters (VII, VIII, IX).

To assess the quality of mastering the curriculum, a point-rating system and ECTS assessment are used.

Points are accumulated by students in the process of training sessions, monitoring progress and interim assessment during each semester.

Academic discipline is considered mastered if a student has scored more than 50% of the possible number of points. The maximum mark for a discipline studied during one semester is 100 points, regardless of its volume.

A student does not receive these credits if during the course of study, working with a teacher and independently, gaining less than 51 points (out of 100 possible) for each semester.

Intermediate certification for the discipline in the VII and VIII semesters is carried out in the form of offset.

Test consists of: testing, evaluation of practical skills of the student and interview. The procedure for intermediate certification:

1. Conducting student testing

2. Evaluation of practical skills
3. Interview

The test is held at the end of the study of discipline in the semester.

In the IX semester, intermediate certification of the discipline is held in the form of an exam.

The exam consists of: testing, assessing the practical skills of the student and the interview.

1. The procedure for intermediate certification:
2. Conducting student testing
3. Evaluation of practical skills
4. Interview

The exam is held during the exam session.

A detailed description of the point-rating system is placed in the fund of assessment tools

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. 9.

Table No. 9

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.