Должность: Ректор Дата подписания: 25.01.2024 16:38:5/ **PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA** Уникальный программный ключ: ca953a0120d891083f939673078ef1a989**RUDN University named after Patrice Lumumba**

Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentisry field of studies / speciality code and title

Course Title	Three-dimensional Computer Modeling of
Course Workload	Teeth Credits and academic hours 2 aradits (108)
Course workioad Credits and academic hours- 2 credits (108)	
Course Module Title	Brief Description of the Module Content
Introductory lesson. The concept of CAD / CAM system. The history of the development of CAD / CAM systems in dentistry. Structure CAD \ CAM systems.	The concept CAD / CAM sistema.Istoriya development of CAD / CAM systems in Russia and mire.Istorichesky essay on the development of the company Sirona. General characteristics and review of existing CAD / CAM systems in the world. Principles and stages of work CAD / CAM systems. Compare CAD-CAM systems for laboratory fabrication of structures and cabinet systems Systems of open and closed The materials of construction
Dissection teeth under orthopedic structures made by milling	Recovery Methods dentition hard tissue defects. Classification of cavities by Black localization, classification ADO tabs. Formation of cavities, walls, occlusal edges. Preparation under inley / onlay / overlay inlays, crowns.
Getting the optical impression	The concept of "optical impression". Overview 3Dskanerov and intra-oral camera in prosthetic dentistry. Prepare to receive the impression, the basic requirements. matting errors. Stages optical impression removal, obtaining the medial / distal enlarged impression. Quality control of the optical impression. Typical errors when removing optical impression.
Working with the CAD	The main program for example, the company Sirona. Familiarization with the CEREC system user interface (menu: configuration, settings, tools, configuration, calibration)

	Screen toolbar (input administrative data ekvatornaya line, a line of preparation, interproximal contacts, to construct models of instruments). Construction crown via buccal picture and the Registrar of occlusion. Registrar of the central occlusion. Choice of dental tooth library.
Work program CERECSW 4	Construction onlay / inlay tabs, overlay, a single crown. Working with the milling program (milling otmodelirovannyh earlier designs).
Materials for milling prosthetic	Classification of materials for the manufacture of orthopedic structures. Features and indications. Blocks for aesthetic dentistry characteristics during milling.
Methods of processing orthopedic structures after milling	Sintering .Optimalnye modes .Vliyanie parameters on accuracy, durability, aesthetics of future work. Polishing or glazing restorations. Individualization ceramic restorations using ceramic materials and paints.
Fixing restorations	Adhesive cementation of restorations. Dual- cure cements. Representatives, their properties and differences. Stages fixing various ceramic restorations
Digital Opportunities	Additional features digital-gingival production of prostheses, protective guides for templates preparation teeth individual spoons.

E.N. Gvozdikova

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Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentisry

field of studies / speciality code and title 2022-2023

Course Title	Three-dimensional x-ray Diagnostic Methods in
	Dentistry
Course Workload	Credits and academic hours – 2 credits (108)
C	ourse contents
Course Module Title	Brief Description of the Module Content
Ray examination methods in dentistry. Indications. Side effects. Complications. Intraoral and extraoral dental radiography. Cone-beam computed tomography in the practice of a dentist Demonstration of clinical department material.	The discovery of X-rays. The main types of radiation survey in dentistry. The principles of imaging during intraoral radiography, orthopantomography, and cone-beam helical CT. Analysis of the rules of patient positioning during a particular study. Advantages and disadvantages of the methods. Concepts pixel voxel Hounsfield scale, dicom.
The practical part. Education of the patient positioning during radiation survey	
Radiation safety of the dentist during the radiation survey. Artifacts and computed tomography solutions. The practical part. Education means radiation protection. Working with computed tomography to remove artifacts from the metal.	SanPiN norms, recommendations on radiological methods of examination of children, pregnant women and other groups of persons. Workers Group A and Group B. Radiation exposure for one study for each method. Errors of two-dimensional and three-dimensional diagnostic techniques. What is the artifact types of artifacts, a means of eliminating artifacts.
X-ray anatomy maxillofacial according cone-beam computed tomography. The practical part. Working with CT ability to visualize the basic anatomic structure during treatment planning.	Important structure of upper and lower jaw according to computed tomography. Their definition, localization features. study of the structure of the paranasal sinuses, TMJ, mandibular canal, incisive canal, alveolar-antral artery. Determination of the anatomical structure of the tooth, especially tooth root channel-system and in CBCT imaging.
Rentgenosemiotika major dental diseases dental reception.	Diagnosing dental caries according to CBCT. Non- carious lesions of dental hard tissues. dental

	anomalies. Periodontitis and their X-ray picture.
The practical part. Working with CT	Parodont. Periodontal structure. Vizaulizatsiya and
scanning zone for analysis to identify	evaluation of periodontal according cone-beam
pathological formations	computed tomography.
Rentgenosemiotika major dental	Retention and misplacement teeth. Anomalies of the
diseases dental reception.	teeth and jaws. Odontogenic cysts and
	neodontogennye. Diagnosis by computed
The practical part. Working with CT	tomography. Evaluation of prevalence. Planning for
scanning zone for analysis to identify	dental implantation according to the radiological
pathological formations	survey
Using programs viewer cone-beam	Testing of manual skills on the possibility of
computed tomography to analyze a	obtaining a diagnostic image of the tooth, jaw, or
pathological condition	anatomical structure. Conducting linear
	measurements. Adjusting the picture viewing mode.
The practical part. skills development	Construction of the panoramic imaging
of work programs in order to maximize	zonogrammy and lateral cross-sections. Ability to
the information for the purpose of	work in 3D-mode.
diagnosis and treatment.	

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Topographic Anatomy and Operative Surgery of
	Head and Neck
Course Workload	Credits and academic hours – 3/108
Cour	rse contents
Course Module Title	Brief Description of the Module Content
Module 1. Topographic anatomy of the head	Topographic anatomy and operative surgery as an educational discipline and its place in the training of doctors. Applied anatomy and its main types. Operative surgery: contents and methods of study. Topographic anatomy of the head. SC Topographic anatomy of the cerebral part of the head. Cranial vault. Fronto-parietal-occipital, temporal regions, the area of the mastoid process. Brain. Meningeas of the brain and intermeningeal spaces. Sinuses of the dura mater. Blood supply to the brain. SC Topographic anatomy of the facial part of the head. Anterior face region. The area of the orbit. Infraorbital and zygomatic areas. Nose area. External nose. Nasal cavity. Paranasal (accessorial) sinuses. Pathways of pus spreading at maxillitis and sinusitis. SC Topographic anatomy of the mouth region. Surgical anatomy of the upper and lower lips. Oral cavity. The vestibule of the mouth. Teeth, periodont, parodont, gums. The hard palate, soft palate, tongue and the sublingual space. The bottom of the oral cavity: the muscles, cellular tissue gaps and spaces. Topographic-anatomical substantiation of anesthesia in maxillo-facial surgery (infiltration, extra- and intraoral, conduction anesthesia during operations on the maxillodental segment, the teeth, formations of the oral cavity). SC Topographic anatomy of the lateral superficial face region. Surgical anatomy of the facial nerve and its branches. Buccal region. Fat body of the cheek. Parotid-masseteric region. Surgical anatomy of the parotid gland and its excretory SC duct. Surgical anatomy of the temporomandibular joint. Topographic anatomy of

	the deep lateral face region. Venous pterygium
	plexus. Surgical anatomy of the maxillary artery and
	mandibular nerve. Cellular spaces and pathways of
	spreading burrowing pus
Module 2. Topographic anatomy of the neck	The division into the parts, regions and triangles.
	Fascias and cellular spaces of the neck. The middle
	region of the neck. Submandibular and carotic
	triangles. Surgical anatomy of the submandibular
	salivary gland. Submental and scapular-tracheal
	triangles. SC Sterno-claido-mastoid region. Scaleno-
	vertebral triangle. The lateral neck region. The
	topography of the subclavian artery and vein, the
	brachial plexus. Antescalene and interscalene spaces.
	Surgical anatomy of: larynx, trachea, pharynx,
	cervical esophagus and thyroid gland.
Module 3. Operative surgery of the head and neck	Surgical instruments. Suture material. The main
	elements of operational techniques are: the separation
	of tissues, stop bleeding, application and removal of
	skin sutures, tying ligature knots. Operations on the
	head. Primary surgical treatment of the head wounds.
	Trepanation. Trepanation of mastoid procesus.
	Incisions at parotiditis. Restorative and reconstructive
	operations in malformations of the lips, palate.
	Incisions in phlegmon of the mouth floor. Operations
	on the neck. Primary surgical treatment of neck
	wounds. Incisions in phlegmon of the neck.
	Tracheostomy. Conicotomy. Operations on the
	thyroid gland.

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	E.E. Savchenkova
signature	name and surname
signature	A.V. Protasov
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Federal State Autonomous Educational Institution of Higher Education PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA NAMED AFTER

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RUDN University

Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Propaedeutics of Dental Diseseas	
Course Workload	Credits and academic hours – 6/216	
Course contents		
Course Module Title	Brief Description of the Module Content	
1.Module Propedeutics of conservative dentistry.	Topic 1.1. Examination of the patient in the practice of a dentist. Medical records, medical history. Basic and additional methods of examination. instruments for examining a dental patient. Rules for filling the dental formula.	
	Topic 1.2. The concept of caries, classification. Pathogenesis of the development of the carious process. Methods of treatment of caries. Stages of preparation of cavities. Isolation of the operating field: rubber dam.	
	Topic 1.3. Principles and stages of preparation of carious cavities I, Black class and VI. Elements of the formed cavity. Toolkit. Restoration with various materials. Possible errors and complications, their prevention.	
	Topic 1. 4. Principles and stages of preparation of carious cavities of class V according to Black. Elements of the formed cavity. Toolkit. Restoration with various materials. Possible errors and complications, their prevention.	

r	Topic 1.5. Basic principles and stages of
]	preparation of carious cavities of class II
:	according to Black. Restoration with
,	various materials. Possible errors and
(complications, their prevention.
r	Topic 1.6. The basic principles and stages
	of preparation of carious cavities of the III
	class according to Black. Restoration with
,	various materials. Possible errors and
	complications, their prevention.
7	Topic 1.7. Basic principles and stages of
1	preparation of carious cavities of class IV
	according to Black. Restoration with
,	various materials. Possible errors and
	complications, their prevention.
r	Topic 1.8. Colloquium 1.
r	Topic 1.9. The concept of endodont
1	periodontal disease. The pulp of the tooth
1	Anatomical and topographic features of the
1	structure of the cavity of the teeth of the
1	maxilla and mandible Indications for
	endodontic treatment. Methods of treatment
	of pulpitis Stages of endodontic treatment
,	The concept of "opening" and opening the
	cavity of the tooth Anatomical and
1	topographic landmarks used to open the
	cavity of an intact tooth Errors in the
	opening of the tooth cavity and their
1	prevention
<u> </u> r	Topic 1 10 Endodontic tools purpose
	standardization Instruments for root canal
1	treatment passage and expansion Types of
1	movement of instruments in the canal
r L	Methods for determining the working
1	length of the root canal Errors in
	determining the working length
	Topic 1 11 Standardized root canal
	tropic 1.11. Standardized 1001 canal
	treatment technique. Stages of endodontic
	treatment of the root canal. Medications for
]	root canal treatment. Ways to chemically
	expand root canals. Errors in mechanical
i r	and drug treatment of the root canal.
,	1 opic 1.12. Instrumental and medical
1	treatment of root canals. "Step-back" and
	"crown-down" methods. Errors in
]	mechanical and drug treatment of the root
	canal.

	Devitalizing (necrotizing) agents, their
	purpose and application Impregnation
	methods of treatment of pulpitis. Errors and
	complications in impregnation methods of
	pulpitis treatment.
	Methods of obturation of root canals.
	Method of filling root canals with one paste
	and one (central) pin method. Errors and
	complications, their prevention.
	Topic 1.15. Methods of obturation of root
	canals. Lateral and vertical condensation
	method. Mistakes and complications, their
	prevention.
	Topic 1.16. Colloquium 2.
	Topic 1.17. Final colloquium.
	Total: 17 lessons (2 course - 3 semester).
Module 2.	Topic 2. 1. Biomechanics of the mandible
	movements. The concept of the dental,
Propaedeutics of prosthetic dentistry.	alveolar, and basal arch (arc of Kemeny).
	Articulation, occlusion, types of bite.
	Definition of Central occlusion, signs.
	Topic 2.2. Biomechanics of the mandible
	movements. The concept of the occlusal
	surface and the occlusal plane. Articulation
	and dynamic occlusion. Paths and angles of
	the mandible movements in different
	planes. Occludator, application.
	Articulator, application.
	Topic 2.3. Defects in the coronal part of the
	tooth and the crown restoration with
	prosthetic methods, IDOST. Indications for
	the use of inlays. Features of tooth
	preparation for inlays. Methods of
	indirect)
	mairect).
	indications Deguinements for artificial
	anormal Special features of teath
	crowns. Special features of tooth
	instrumenta Clinical and laboratory stars
	instruments. Clinical and laboratory stages
	ot swaged crowns manufacturing.

	Topic 2.5. Indications and contraindications for prosthetic treatment of the tooth and tooth arch with the casted, porcelain fused to metal, resin fused to metal fixed constructions. Materials used for their production, physicochemical properties. Features of the tooth preparation for the casted, porcelain fused to metal, resin fused to metal fixed crowns. Retraction of the gum and its types. Two-layer impression, its purpose, materials. Manufacturing of the combined separable models, materials, methods. The concept of "the step", its purpose, types. Clinical and laboratory stages of casted constructions manufacturing.
	Topic 2.6. Casted, porcelain fused to metal, resin fused to metal crown. Requirements for the frame of such structures and facing material, their physical and chemical properties. Two-layer impression, its purpose, materials. Manufacturing of the combined separable models, materials, methods. Technology of manufacture of porcelain fused to metal, resin fused to metal dentures. Method for manufacture of temporary (substitute) structures. Features of preparation of teeth under a ceramic crown. Clinical and laboratory stages of manufacturing ceramic structures.
	Topic 2.7. Indications for arch defects treatment with dental bridges, materials, used for it. Special features of teeth preparation for dental bridges. Clinical and laboratory stages of manufacturing
	Topic 2.8. Post construction. Standard and individual manufacture. Clinical and laboratory stages of manufacturing.
	Topic 2.9. Colloquium 1.
Module 3. Propaedeutics of surgical dentistry.	Topic 3.1. Anatomic and topographic features of structure and innervation of the upper and lower jaws. Anesthetics. Instruments for injective anesthesia. Types of local anesthesia in dentistry. Peripheral (infiltrative and application) anesthesia. Types_methods_indications
	Topic 3.2. Methods and ways of Field blocks on the upper jaw

Topic 3.3. Methods and ways of Field
blocks on the lower jaw
Topic 3.4. Indications and contraindications
for tooth extraction. Stages of tooth
extraction. Special features of construction
of the forceps for upper teeth extraction.
Ways of handling.
Topic 3.5. Instruments, methods and special
features of teeth and roots extraction on the
upper jaw. Doctor's position and position of
the patient.
Topic 3.6. Instruments, methods and special features of teeth and roots extraction on the lower jaw. Doctor's position and position of the patient.
Topic 3.7. Methods of root extraction on the
lower and upper jaw using elevators and
handpiece. Wound treatment after complex
tooth extraction and care for it.
Topic 3.8. General and local complications
after local anesthesia and tooth extraction.
Reasons and solving
Topic 3.9. Colloquium.
Total: 18 lessons (2 course - 4 semester)

A.S. Manvelyan

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Z.A. Guryeva

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HEAD

OF EDUCATIONAL DEPARTMENT

S.N. Razumova

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Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Prosthodontics (Complex Prosthetics)
Course Workload	Credits and academic hours – 8/288
Cour	se contents
Course Module Title	Brief Description of the Module Content
1 Replacement of dentition defects with fixed	Partial teeth absence. Methods of patient
prosthodontics	examination.
structures	Compelling reasons of using bridge (bridgework)
	restoration. Indications and contraindication for
	using bridgeworks. Principle ob abutment teeth
	choosing. Types of bridgeworks .
	Clinical and laboratory steps of bridge restoration
	treatment. Principle of abutment teeth
	preparation. Try in and fixation of bridge
	restoration. Quality criteria of bridgework. Items
	of bridgework care.
2.Removable denture treatment	Examination of patient with partial teeth absence
	for future planing removable restoration.
	Indications and contraindications for removable
	denture restoration. False teeth selection.
	Landmarks for false teeth setting up. Clinical
	steps of quality checking. Criteria of removable
	denture quality. Clasp dentures. Indications and
	contraindications for clasp denture restoration,
	basic structural elements. Clinical and laboratory
	steps. The methods of clasp and partial dentures
	try-in. Criteria of removable denture quality.
	Rules for the use and care of removable dentures.
3 Prosthetic treatment of periodontal diseases	Etiology, pathogenesis, classification, clinical
	manifestations of periodontal disease. Modern
	dentistry. Clinical and biomachanical
	substantiation of the orthopadic stage of
	complex treatment of natients with periodontal
	disease especially the design of medical devices
	and prostheses. Clinical and laboratory stages of
	manufacturing splinting structures

4 Prosthetic treatment of increased abrasion of har	rd Etiology, pathogeny, classification and clinical
tissues of teeth	symptoms of excessive attrition of teeth.
	Diagnostic aids and prosthetic restoration of
	excessive attrition of teeth.
5 Prosthetic treatment of deformations and	Etiology, pathogenesis, classification, clinical
anomalies of dentition and bite.	manifestations of deformation of the dentition and
	bite in the partial absence of teeth. Modern
	methods of diagnosis. Methods of elimination of
	deformation and justification of tactics of
	management of patients with this pathology. Stages
	of treatment.
6 Prosthetic treatment of patients with dentures	Indications and contraindications to the use of
supported by implants	dentures based on implants. Features of clinical and
	laboratory stages of prosthetic treatment with
	removable and fixed dentures based on implants.
7 Prosthetic treatment of patients with somatic	Tactics of prosthetic treatment patients with
diseases. Prosthetic treatment of patients with	somatic pathology (CVS, GIT, endocrine diseases,
chronic diseases of the oral cavity.	cancer of oral cavity, mental diseases, infection
	diseases (HIV, tuberculosis, candida), chronic
	diseases of skin and mucous of oral cavity and lips)

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HEAD OF EDUCATIONAL DEPARTMENT Lebedenko I. Yu.

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Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Prosthodontics (Simple Prosthetics)
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
Section 1. Methods of examination of patients in the clinic of prosthetic dentistry. Organization of prosthetic dental care.	Brief Description of the Module ContentTopic 1.1Modern equipment, machines, tools at the workplace ofa prosthodontist. Medical documentation, rules forfilling it. Sanitary and anti-epidemic measures.Methods of examination of patients in the clinic ofprosthetic dentistry: clinical and additional. Additionalsurvey methods. Xray methods of examination.Indications for X-ray examination. "Reading" of X-rays. Methods for determining the functional state ofthe dentition (static, functional). Medicaldocumentation and rules for filling it. Medical case as ascientific medical and legal document. Topic 1.2Pathology of hard tissues of teeth. Classification.Etiological factors, clinic. Diagnostics. Basic andadditional diagnostic methods. Diagnostic models.Characterization of impressions and impressionmaterials. Features of alginate impression materials.Assessment of the quality of impressions. Gettingplaster models. Analysis of diagnostic models.Differential diagnosis. Features of filling out a medical
Section 2. Methods of prosthetic treatment of patients with defects of hard dental tissues by inlays.	dental hard tissues. Topic 2.1 Treatment of pathology of hard tissues of teeth. Types of dentures that restore the anatomical shape and size of the destroyed tooth crown. The choice of the method of orthopedic treatment depending on the index of destruction of the clinical crown. Cavity classifications. Indications and contraindications for inlay prosthetics. Types, classification of inlays. Clinical requirements for inlays. Topic 2.2 Materials for making inlays. Methods for modeling inlays (clinical and laboratory). Clinical and laboratory stages of making inlays. Features of preparation for various types of inlays. Modern materials and technologies for the manufacture of inlays in prosthetic dentistry.
Section 3. Methods of prosthetic treatment of patients with defects of hard dental tissues by crowns	Topic 3.1 Artificial crowns. Types, classification of artificial crowns. Indications and contraindications for prosthetics with artificial crowns. Clinical requirements for artificial crowns. Materials for the manufacture of artificial crowns. Topic 3.2 Features of preparation of

teeth in the manufacture of stamped metal crowns. Criteria for assessing the quality of tooth preparation. Prevention of errors and complications at the stage of preparing teeth for crowns.

Topic 3.3. Artificial crowns. Clinical and laboratory stages of prosthetics with metal stamped crowns. Clinical stage of fitting a metal swaged crown. Requirements to be met by a metal swaged crown and quality assessment criteria. Determination of the depth of immersion in the gingival groove. The presence of contact points, the tightness of the edge of the crown to the tooth tissues, analysis of restoration of the shape of the dentition, determination of contact with antagonists. Possible errors at the clinical and laboratory stages of the manufacture of stamped metal crowns and complications during their use.

Topic 3.4. Prosthetic treatment with cast all-metal crowns. Indications and contraindications. Principles, techniques, features of tooth preparation. The method of forming the gingival ledge, its shape, location in relation to the gum. Methods of expansion (retraction) of the periodontal sulcus. Fitting a cast all-metal crown. Clinical requirements to be met by all-metal cast crowns. Determination of the tightness of the crown to the tooth tissues.

Topic 3.5. Artificial cast all-metal crowns. Laboratory stages of manufacturing a cast all-metal crown. Features of making working models. Technique of precision casting of metal alloys. Characteristics of metal alloys for the manufacture of solid structures. Composition, properties. Requirements to be met by alloys for metal-ceramic crowns.

Working and additional impressions.

Topic 3.6. Artificial combined crowns. Features of preparation with a shoulder. Materials for veneering crowns. Features of the frameworks of metal-plastic and metal-ceramic crowns. Working silicone two-layer one-step and two-step impressions **Topic 3.7**.

Metal-ceramic crowns. Laboratory stages of production of metal-ceramic crowns. Ceramic facing materials: composition, properties. Correction of the color of the cladding. Glazing of a metal-ceramic crown. Occlusal fit.

Topic 3.8.

Metal-ceramic crowns. The peculiarity of the clinical stages of prosthetics. Checking the availability of space for the application of the facing material. Selection of the color of the facing material. Fitting a metal-ceramic crown in the oral cavity. Correction of the occlusal relationship. Possible errors at the clinical and laboratory stages of the manufacture of metalceramic crowns, their consequences and methods. Disadvantages of combined crowns.

Topic 3.9. Prosthetic treatment of dental hard tissue defects with ceramic crowns. Indications and contraindications for their use. Features of preparation of teeth. Obtaining impressions. Clinical and laboratory stages of manufacturing. Materials for the manufacture of ceramic crowns, their composition, properties.

The stage of choosing the color in the orthopedic treatment of patients with defects in the hard tissues of the teeth. Hardware method. **Topic 3.10**.

Artificial crowns. Acrylic crowns. Indications and contraindications. Clinical and laboratory stages of

	prosthetics with acrylic crowns. Features of tooth preparation. Fitting a acrylic crown. Disadvantages of acrylic crowns. Temporary crowns. One-stage (clinical) fabrication of temporary acrylic crowns. Technique and materials for temporary fixation
Section 4.	Topic 4.1.
Methods of prosthetic treatment of patients with total destruction of the crown of the tooth.	Complete absence (destruction) of the tooth crown. Etiology. Methods of orthopedic treatment with complete destruction of the tooth crown. Types of prosthetic pin structures (anchor pins, stump pin tabs, pin teeth). Indications for choosing a method of treatment with a pin construction, depending on the clinical condition of the gingival part of the root. Requirements to be met by the root and its periapical tissues for prosthetics.
	Modern technologies for the manufacture of pin structures. Restoration with stump pin structures. Preparation of the gingival part and root canal. Direct method of making a wax composition with a pin. An indirect method of making a postcore structure.
Section 5.	Topic 5.1.
Methods of prosthetic treatment of patients with defects of hard dental tissues. Clinical step:	Clinical stage of fixation of the orthopedic structure.
cementation of restorations.	Types of cements and materials used for fixing
	crowns, inlays, veneers, post structures. Features of
	the adhesive fixation technique. Factors influencing
	the choice of the fixation technique
	Topic 5.2.
	tools and techniques.

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RUDN University

Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Prosthodontics of Edentulous Patient
Course Workload	Credits and academic hours – 3/108
Cou	rse contents
Course Module Title	Brief Description of the Module Content
1. Methods of survey, diagnostics of patiens	Peculiarities of clinical survey of patiens with
with edentulous jaws	edentulous jaws. Definition of morphological
	peculiarities hard and soft tissues of prostetic 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.
	Stucture and relation of edentulous jaws.
	Classification of edentulous jaws. Compliance and
	mobility of the oral cavity mucosa. Classification of
	mucosa by Supple. Zones by Lund.
	Buffer zones by Gavrilov.
2.Methods of prostetic treatment of patiens	Fixation and stabilization of complete dentures.
with edentulous jaws	Biophysical and functional factors laying in the
	basis of fixation of complete dentures on edentulous
	jaws. Meanning of flap zone.
	Anatomical impressions, method of taking
	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.
	I ne 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.
3. Clinical and laboratory stages of	Injection molding of acrylic resin. Methods of
manufacturing complete dentures	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.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Methodology of Teaching Russian as a Foreign
	Language
Course Workload	Credits and academic hours $-2/72$
Course	Contents
Course Module Title	Brief Description of the Module
	Content
General questions of methodology of teaching	The role and importance of the Russian
RFL	language in the modern world. Methods of
	teaching Russian as a foreign language,
	communication psychology and linguistics.
	The purpose, principles, methods of teaching
	trials. Features of teaching trials at the initial
	stage (A1-A2): purposes and content.
Teaching grammar	The role of grammar in the process of
	achieving the major goals of practical training
	trials. Selection language material. Using
	speech samples. Types of exercises. The noun.
	Gender, number, animation and case. The
	connection with the native language.
	Prepositional-case system of Russian language.
	Meaning cases. Principles of approach to the
	study and sequence of study of prepositional-
	case system. Difficulties in the assimilation of
	the case system of Russian language.
	Verbal system. View-time subsystem.
	Conjugation. Classes of verbs. Verbal
	notebook.
	Verbs of movement: a sequence of learning
	difficulties. Indirect meanings of verbs of
	motion.
Teaching vocabulary	Work on vocabulary. Lexical minimum. Types
	of lexical exercises.
	Methods of semantization of new words.

	Difficulties in the use of words that are similar
	in meaning.
Teaching phonetics	The subject and the meaning of phonetics, discrete and general phonetics, theoretical and practical phonetics. General principles of methodology of teaching pronunciation. Units of phonetics. Sounds and letters. Russian alphabet. Phonetic transcription. Work on pronunciation. Methods of producing and correction of Russian sounds. The sound system of the Russian language. Vowel sounds, articulation base reduction. Errors in pronunciation of vowels. Eliminating accent. The sound system of the Russian language. Consonants. Location and method of formation. Voiced / voiceless , hard / soft consonants. Methods of producing consonants. Errors in pronunciation of consonants, the elimination of an accent. The pronunciation of the word. Phonetic structure of words. Typical phonetic errors and methods to address them. Work on intonation.
	Characteristics of intonation structures
	(construction, use). Possible mistakes.
Teaching types of speech activity	Types of speech activity. Objectives and content of teaching speaking. speaking mechanisms. Teaching monologue and dialogue. Exercise for teaching speaking, examination. Types of speech activity. Teaching listening skills and mechanisms. The complexity of the exercises. Errors in teaching listening. Types of speech activity. Objectives and content of teaching reading. The requirements for academic text at an early stage. Work on the literary text. Types of speech activity. writing training: characteristics, mechanisms, exercises on writing techniques.
Organization of examinations and independent	Functions of examination. Examinations (tests
work	on vocabulary and grammar, by listening tests, reading tests, writing tests, oral tests. peculiarities of independent work in the training trials.
Organization of the education process	Lesson as a structural unit of the learning process. Lesson plans: the lesson step by step, the goal of learning activities, methods and means of training.

Yu.N. Biryukova

signature name and surname

K.V.Klasnja

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT

V.B. Kurilenko

signature

Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Microbiology, virology - Oral Microbiology
Course Workload	Credits and academic hours $-6/216$
Course	contents
Course Module Title	Brief Description of the Module Content
General microbiology	The subject and tasks of microbiology. Systematics and nomenclature of microorganisms. Morphology and chemical composition of microorganisms. Physiology and biochemistry of microorganisms. Genetics of microorganisms. Fundamentals of general and medical microbial ecology. Microbiological and molecular- biological bases of chemotherapy of infectious diseases.
General virology	The structure of viruses, the interaction of viruses with cells, the reproduction of viruses. Bacteriophages.
The doctrine of infection	An infectious disease. Stages of development and clinical manifestation of an infectious disease. The concept of sepsis, bacteremia, toxemia, septicopyemia. Microbial carrier The concept of pathogenicity and virulence of microbes. The main factors of pathogenicity. Units of virulence measurement.
Private microbiology	Medical bacteriology. Pathogenic and resident cocci: staphylococci, streptococci, neisseria. Pathogens of airborne infections: diphtheria, whooping cough and parapertussis, tuberculosis and leprosy. Pathogenic and resident anaerobic bacteria: pathogens of gas gangrene, tetanus and botulism. Pathogens of zoonotic infections: plague, tularemia, anthrax and brucellosis. Pathogens of intestinal infections: typhoid fever, dysentery, salmonellosis, colibacillosis, cholera and yersiniosis. Pathogens of spirochetosis. Pathogenic rickettsias. Pathogens of chlamydia. Morphology and physiology of fungi. Pathogens of surface and systemic mycoses. Mycoses caused by opportunistic fungi. Medical protozoology and virology.

Microbiology of the oral cavity	Resident microorganisms of the oral cavity. Microflora in odontogenic inflammation: pulpitis, periodontitis, abscess, phlegmon, osteomyelitis, sepsis. Opportunistic processes in the oral cavity. Candidiasis, recurrent aphthous stomatitis, glossitis, gingivitis. The role of the oral microflora in the pathogenesis of caries and in inflammatory processes in the periodontium. Age-related changes in the microbial flora of the oral cavity. The influence of prostheses, filling materials,
	medicines.

N.P. Sachivkina

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT I.V. Podoprigora

signature

Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Workload Credits and academic hours – 2/72 Course contents Ended Ontics or implantation: criteria for choosing a treatment methods. Key stages of endodontic treatment and modern standards for each of them. Basic aspects of modern endodontics. Endodontics or implantation: criteria for choosing a treatment methods. Key stages of endodontic treatment and modern standards for each of them. Methods of endodontic treatment: indications and contraindications. Basic diagnostic methods. Additional diagnostic methods. Diagnostics in endodontics. Differential diagnosis of endodontic pathology. The most common diagnostic errors Preparing the patient for endodontic treatment. Isolation of the working field. Creating an access cavity depending on the group membership and anatomical features of the teeth. Primary navigation, creation of a "carpet path" and the formation of a root canal. Disinfection of the root canal system. Irrigation solutions. Techniques for activating irrigation solutions. Preparations for disinfection of root canals between visits. Obturation of root canals. Sealers and pastes. Lateral condensation of cold gutta-percha. Monopin method. Modified lateral condensation, application of gutta-percha on a carrier, vertical compaction of heated gutta-percha Systemic pharmacotherapy in endodontics. Non-steroidal anti-inflammatory drugs, antibiotics, immunomodulating agents, complex antihomotoxic drugs. Correction of errors and c	Course Title	Modern Endodontics
Course Module Title Brief Description of the Module Content Basic aspects of modern endodontics. Endodontics or implantation: criteria for choosing a treatment methods. Key stages of endodontic treatment and modern standards for each of them. Methods of endodontic treatment: indications and contraindications. Diagnostics in endodontics. Basic diagnostic methods. Additional diagnostic methods. Diagnostics in endodontics. Differential diagnosis of endodontic pathology. The most common diagnostic errors Preparing the patient for endodontic treatment. Isolation of the working field. Creating an access cavity depending on the group membership and anatomical features of the teeth. Primary navigation, creation of a "carpet path" and the formation of a root canal. Disinfection of the root canal system. Irrigation solutions. Techniques for activating irrigation solutions. Preparations for disinfection of root canals between visits. Obturation of root canals. Sealers and pastes. Lateral condensation of cold gutta-percha. Monopin method. Modified lateral condensation, application of gutta-percha on a carrier, vertical compaction of neated gutta- percha Systemic pharmacotherapy in endodontics. Non-steroidal anti-inflammatory drugs, antibiotics, immunomodulating agents, complex antihomotoxic drugs. Correction of errors and complications in endodontic practice. Formation of the access cavity using burs and ultrasonic tips: indications for use, quality standards and feasibility. Elimination of steps in	Course Workload	Credits and academic hours $-2/72$
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standards and feasibility. Elimination of steps in	practice.	ultrasonic tips: indications for use, quality
		standards and feasibility. Elimination of steps in

the root canal, tactics of work with complex
anatomy of the root canal system.
The use of MTA in the closure of perforations at
various levels, apexification and apexogenesis,
direct and indirect pulp capping, pulpotomy.
Re-treatment of root canals filled with plastic and
hardening materials. Tactics of work in the
presence of a foreign body in the root canal.

I.V. Bagdasarova

signature

name and surname

M.K. Makeeva

signature

name and surname

HEAD OF EDUCATIONAL DEPARTMENT

Z.S. Khabadze

signature

Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Neurology	
Course Workload	Credits and academic hours $-3/108$	
Course contents		
Course Module Title	Brief Description of the Module Content	
The general concept of the nervous system.	Anatomy and physiology of the pyramidal,	
Central and peripheral nervous system. Movement	extrapyramidal system, cerebellum.	
and its disorders. Extrapyramidal system and the	Study of the volume of active movements of muscle strength and tone, physiological and	
cerebellum.	pathological reflexes.	
	Signs of central and peripheral paralysis.	
	Extrapyramidal system lesion syndromes	
	Methods for studying the functions of the	
	cerebellum and symptoms of damage.	
Sensory system. Types of sensitivity. Pain	Pathways of superficial and deep sensitivity.	
sensation. Trigeminal system as part of the	Research technique for surface and deep sensitivity. Symptoms and types of sensory	
general sensitivity.	disorders.	
The concept of the cranial nerves. Examination	Anatomy and physiology 1,2,3,4,5,6,8,11 cranial	
techniques. Clinical syndromes due to the cranial	lesion. Research technique and symptoms of	
nerve lesions.		
Trigeminal system, stomalgia and glossalgia.	Anatomy and physiology of the trigeminal nerve	
Clinics, diagnosis and treatments	and autonomic ganglia of the head, research	
	technique and symptoms of lesion. Anatomy and	
	physiology 7,9,10,12 CN, research technique and	
	symptoms of lesion.	
	Bulbar and pseudobulbar paralysis. Alternating syndromes	
The autonomic nervous system and its pathology.	The autonomic nervous system. The main	
Basic manifestations in the autonomic nervous	symptoms of damage to the ANS in the face and	
system disorders of face and head.	head. Innervation of salivation. Higher nervous activity Study of speech counting memory	
	gnosis, praxis. Functional differences between the	
	right and left hemispheres. Anatomy and	
	physiology of the limbic system, symptoms of	
	damage	
Neuralgia of the trigeminal and glossopharyngeal	Neuralgia of the trigeminal and glossopharyngeal nerve Glossalgia and dental plexalgia. Etiology,	

nerve. Postherpetic neuropathy of the trigeminal	pathogenesis, clinical picture, diagnosis,
nerve. Glossalgia and dental plexalgia.	differential diagnosis and treatment.
Myofascial pain dysfunctional syndrome of the	Myofascial pain dysfunctional syndrome of the face. Ganglionitis of the pterygopalatine, ciliary,
face, Ganglionitis. Facial nerve neuropathy. Facial	submandibular, sublingual, nasal and ear-
hyperkinesis	temporal, geniculate and upper cervical nodes. Facial nerve neuropathy. Facial hyperkinesis:
	hemifascial spasm, Meige's syndrome, blepharospasm, oromandibular dystonia.
Acute disorders of cerebral circulation. Closed	Stroke by ischemic and hemorrhagic type. Etiology, clinic, diagnostics, first aid measures at
craniocerebral trauma.	the prehospital stage, treatment, prevention. TBI, etiology, clinic, diagnosis, treatment.
Infectious diseases of the central and peripheral	Meningitis, meningoencephalitis, polyneuropathy, neuro-AIDS, neurosyphilis, multiple sclerosis.
nervous system, meningitis, meningoencephalitis,	Etiology, clinical presentation, diagnosis and
polyneuropathy, neuro AIDS, neurosyphilis,	treatment
multiple sclerosis.	
Syringomyelia, syringobulbia, brain tumors,	Syringomyelia, syringobulbia, brain tumors, etiology clinical picture diagnosis and treatment
epilepsy	Epilepsy: etiology, clinical picture, types of seizures diagnosis first aid at the prehospital
	stage, treatment.

N.V. Nozdryukhina

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HEAD OF EDUCATIONAL DEPARTMENT G.E. Chmutin

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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

COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Normal Physiology - Physiology of the Maxillofacial
	Region
Course Workload	Credits and academic hours $-5/180$
Cours	e contents
Course Module Title	Brief Description of the Module Content
Physiology of excitable tissues.	General physiology and cell physiology. Cell membranes, transport of substances through the cell membrane. Analysis and solution of problems related to the Theme of classes. Excitability and its parameters. Membrane potential. Action potential. Analysis and solution of problems related to the Theme of classes. Synapse physiology. Physiology of the nerve fiber, nerve. Analysis and solution of problems related to the Theme of classes. Physiology of muscle contraction. "Dynamometry. Research of maximum voluntary strength and strength endurance of muscles". "The effect of various types of rest on the effectiveness of restoring muscle performance". Analysis and solution of problems related to the Theme of classes.

Physiology of the central nervous system Physiology of	Nervous regulation of physiological functions Reflex
higher nervous activity	and its characteristics. Inhibition in the central nervous
lingher hervous activity.	system Basic properties of perve centers Private
	system. Basic properties of herve centers. Hivate
	physiology of the central hervous system. Research of
	numan unconditioned reflexes". "Investigation of
	cerebellar control of skeletal muscle motor activity".
	Physiology of the autonomic nervous system.
	Sympathetic, parasympathetic, and metasympathetic
	nervous systems. The role of the autonomic nervous
	system in the development of adaptive responses.
	"Approximate assessment of human vegetative tone by
	questionnaire". "Assessment of vegetative tone by the
	Kerdo index". Physiology of higher nervous activity. A
	conditioned reflex. Dynamic stereotype. "Determination
	of psychological characteristics of a person using the EPI
	personality questionnaire (G. Eysenck's method)".
	Memory, Sleep, "Study of attention switching" "The
	dependence of memory size on the degree of
	meaningfulness of the material".
	"Electroencephalography". Analysis and solution of
	problems related to the theme of classes.
Physiology of sensory systems.	General physiology of analyzers. Skin analyzer. "Study of
	tactile sensitivity (estesiometry)". Physiology of vision.
	"Determination of visual acuity", " Determination of the
	visual field (perimetry)". Physiology of hearing and
	vestibular apparatus. "Comparison of air and bone
	conduction (Rinne test)". Physiology of taste and smell.
	"Determination of taste sensitivity thresholds".
	"Determining the role of the sense of smell in the
	occurrence of taste sensations"
Blood physiology.	Function and composition of blood. Shaped blood
	elements. Blood types. Blood buffer systems.
	"Determination of blood type and Rh factor". A system
	for regulating the aggregate state of blood. "Determining
	the bleeding time". "Determining the folding time".
Physiology of digestion.	Functions of the digestive tract. Motor functions of the
	digestive tract. Secretory function and digestion in the
	oral cavity. "Digestion of starch by human saliva
	enzymes", "Determination of the active saliva reaction
	(pH) using universal indicator paper". Secretory function
	and digestion in the stomach, small and large intestines.
	The role of the liver in digestion. Absorption of nutrients
	in the gastrointestinal tract. "Investigation of the
	enzymatic properties of gastric juice". "The effect of bile
	on fats".
Excretion, kidney physiology.	The system of excretory organs. Formation of urine in the
	kidneys. Kidneys as an organ of homeostasis. "Study of
	some components of urine using diagnostic strips". Non-
	urinary functions of the kidneys. The role of the kidneys
	in the development of adaptive responses of the body.
	Bladder and urination. Methods of studying kidney
	tunction. Solving problems related to the Theme of the
	lesson. Analysis of the renin-angiotensin-aldosterone
	system scheme.

Physiology of the cardiovascular system	Physiology of the cardiovascular system Heart cycle
	Spread of arousal in the heart. Conducting system of the
	heart. Properties of the heart muscle. Nervous and
	humoral regulation of the heart. "Registration of an
	electrocardiogram Interpretation of a normal
	electrocardiogram" Vascular physiology Basic laws of
	hemodynamics Microcirculation and lymph flow
	Methods of blood circulation research "Assessment of
	the parameters of the cardiovascular system at rest and
	during physical exertion"
Physiology of respiration	Physiology of respiration External breathing Lung
r hystology of respiration.	volumes and capacities "Spirometry" Pagulation of
	respiration Transfer of gases by blood "Conducting
	hypersonic tests of Stonge and Conche"
Developer of the ondearing alonds	Endogring regulation of physiclogical functions. Concerd
rhystology of the endocrine grands.	Endocrine regulation of physiological functions. General
	andoaring glanda Driveta physiology of the andoaring
	glands. Humoral regulation of physiological functions
	Device of the endooring glands. "Determination of
	the concentration of chaose in human blood"
	"Construction of a glucomia gurue during the glucose
	tolerance test"
Matchalism and anargy Thormorogulation	Ultrance lest . Human matchaliam Energy exchange Determination of
Metabolishi and energy. Thermoregulation.	the metabolic rate Basic exchange deily operation
	approximation Exchange of protein fat and
	consumption. Exchange of protein, fat, and
	daily operate consumption" Regulation of metabolic
	Developical basis of nutrition Basic principles of
	empiling food rations. "Assessment of the state of
	bumon metabolism based on the analysis of body weight
	(aslaulations of body mass index and ideal body mass)"
	"Estimation of the distribution of human body fat by the
	usist/hin index" "Estimation of human body fat mass hy
	waist/inp index. Estimation of numan body fat mass by
	rations" Thermoregulation and thermoregantion "Study
	of temperature consistivity (thermoesthesiometry)"
Physiclean of the manifleforial marian	Composition and properties of colive Development
r nystotogy of the maximolacial region.	significance of oral and ginginal fluid Structure and
	functions of maxillofacial organs
	Sonsory system of the maxillofacial ragion
Coordination and integration of physiological functions	Coordination and integration of the revealagion
Coordination and integration of physiological functions.	functions
	runcuons.

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Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	History of Medicine	
Course Workload	Credits and academic hours - 2 credits (72 hours)	
Course contents		
Course Module Title	Brief Description of the Module Content	
Introduction.	1.1. Formation of prehistoric society and	
Early types of healing	healing.	
	1.2. Healing during the flourishing of	
	prehistoric society.	
	1.3. Healing during the decline of prehistoric	
	society.	
	1.4. Folk medicine.	
	2.1. Common characteristics of Ancient	
	civilizations.	
	2.2. Healing and Medicine in Ancient	
	Mesopotamia (Sumer, Babylonia, Assyria).	
Healing and Medicine in Ancient civilizations	2.3. Healing and Medicine in Ancient Egypt.	
	2.4. Healing and Medicine in Ancient India.	
	2.5. Healing and Medicine in Ancient China.	
	2.6. Healing and Medicine in Ancient Greece.	
	2.7. Healing and Medicine in Ancient Rome.	
	3.1. Medicine in the Byzantine Empire.	
	3.2. Medicine in the Caliphates (VII–X	
	centuries).	
Medieval Medicine	3.3. Medicine in Middle and Central Asia (X–	
(V-XV centuries)	XV cc.).	
(* A v contailes)	3.4. Medicine in Medieval Rus (IX–XV	
	centuries).	
	3.5. Medicine in Medieval Western Europe (V-	
	XV centuries).	
	4.1. Renaissance Medicine in Western	
Madising in Early Madam Time (XX) again	Europe.	
Medicine in Early Modern Time ($X V - early$	4.2. Medicine in the Americas before and	
XVII century)	after the conquest (Mayas, Aztecs, Incas).	
	4.3. Medicine in the Great Moscow Princedom,	
	XV–XVII centuries.	
Bio-Medical sciences in Modern Times	5.1. The greatest discoveries in Natural	
(mid XVII–XIX century)	sciences.	
(5.2. Biology and Genetics.	

	 5.3. Anatomy. 5.4. Histology. Embryology. 5.5. Pathology. 5.6. Microbiology. 5.7. Physiology and Experimental Medicine.
Clinical Medicine in Modern Time (mid XVII–XIX century)	 6.1. Internal Medicine. The first physical methods and instruments for clinical examination. Medical education. 6.2. The Russian medicine and education in XVIII–XIX centuries. 6.3. Infectious diseases and Epidemics. 6.4 Problems and progress of Surgery. 6.5. History of Nursing. 6.6. History of Dentistry.
Medicine and Public Health in the XX century	7.1. History of Nobel Prizes. The Nobel prizes in Physiology or Medicine.7.2. Medicine and Public Health in Russia in XIX–XX centuries.
Medicine and Public Health in the XX century	8.1 International co-operation in Public Health and Medicine (International Red Cross; the World Health Organization; World Physicians against the Nuclear War)

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Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	History of Russia
Course Workload	Credits and academic hours $-8/72$
Course	contents
Course Module Title	Brief Description of the Module Content
I. Theory and methodology of	1. History as science
Historical Science	
II. Ancient Rus in Medieval age	2. Ancient Rus'
	3. Feudal fragmentation and struggle for
	independence
	Formation of the Russian united state
III. Russia on the brink of New Age and in	5. Russia in the XVI century. Ivan the
the New Age	Terrible
	6. Time of Troubles and the beginning of
	Romanov's reign
	7. Peter I and his age
	8. The age of Palace coups
	9. The Russian Empire in the second half of
	the XVIII century
	10. Russia in the first quarter of the XIX
	century. Paul I.
	Alexander I. Patriotic war of 1812
	11. Decembrists movement. Reign of
	Nicholas I
	12. Alexander II and the era of reforms
	13. Russian Empire during the reign of
	Alexander III
	14. Features of the development of capitalism
	in Russia
	(the last quarter of the XIX century.)
IV. Russia and USSR in contemporary times	15. Russian Empire in the beginning of XX
	cent.
	Nicholas II.
	16. Revolutions in Russia

17. Domestic policy of Soviet Russia and the
USSR in the prewar period
18. The USSR during the great Patriotic war
(1941-
19. 1945) Postwar years. The beginning of
Khrushchev's rule.
20. Thaw as a special stage of development
of the USSR.
21. USSR under L. Brezhnev
22. USSR in 1985-1991. Perestroika.
23. Collapse USSR and the creation of CIS
Formation of modern Russia. Vladimir Putin.
25. The role of RUDN as a "soft power" in the
international relations

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Human anatomy - Anatomy of head and neck	
Course Workload	Credits and academic hours – 9/324	
Course contents		
Course Module Title	Brief Description of the Module Content	
Section 1.	1. 1. Anatomy of body	
Anatomy of body and organs	1. 2. Splanchnology	
	1. 3. Cardiovascular and Lymphoid system	
	Nervous system	
Section 2.	2. 1. Skeleton, articulations and muscles of	
Head and neck anatomy	head and neck	
	2. 2. Anatomy of the oral cavity and teeth	
	2. 3. Brain and cranial nerves	
	Innervation of the organs of head and neck	
	č	

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RUDN University

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Hygiene
Course Workload	Credits and academic hours - 3 credits (108
	academic hours)
Course	contents
Course Module Title	Brief Description of the Module Content
Module 1. Nutrition hygiene.	Hygienic principles of rational nutrition. Calculation of fluoride content in the daily diet. Dietary, therapeutic-preventive, and preventive nutrition. Sanitary and hygienic expertise of foodstuffs (principles, conclusions). Nutritional and biological value, safety of products of animal origin (meat, fish, milk). Nutritional and biological value, safety of products of plant origin. Food preservation methods and sanitary and hygienic expertise of canned food and
Module 2. Communal hygiene.	 concentrates. Food poisoning and its prevention. Hygiene assessment of the air environment - physical indicators (microclimate). Hygiene assessment of the air environment - chemical pollution. Hygiene assessment of natural lighting. Hygiene assessment of drinking water. Water fluoridation and defluoridation methods. Hygienic assessment of soil quality in populated areas. Hygiene assessment of ionizing radiation. Dosimetry and radiation protection.
Module 3. Hygiene of healthcare organizations.	Prevention of health care-associated infections.
Module 4. Occupational hygiene.	Fundamentals of occupational health and safety for workers. The physiological basis of the work process. Occupational health and hygiene
	assessment of working conditions of dentists.
------------------------------------------------	----------------------------------------------------
	Occupational dental and oral diseases in
	patients. Occupational risk factors for dental and
	oral diseases.
Module 5. Hygiene in children and adolescents.	Hygienic assessment of the physical
Hygienic basics for a healthy lifestyle.	development of children and adolescents
	(complex method) at preventive health
	examinations. Participation of a dentist in the
	assessment of oral health (DMF index, hygiene
	indexes). Healthy image of life (level, pattern,
	style, quality), and personal hygiene issues.
	Dental and oral care as an element of a healthy
	lifestyle.

L.V. Maksimenko

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RUDN University

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Health and Safety
Course Workload	Credits and academic hours - 3/108
Course contents	
Course Module Title	Brief Description of the Module Content
Section 1. Theoretical basis	Topic 1.1.System "Human-environment"
	Topic 1.2.Risks
	Topic 1.3. Natural emergencies
	Topic 1.4.Man-made emergencies
	Topic 1.5.Life Safety Management
	Topic 1.6. Monitoring as a basis for managing human
	life safety
Section 2. Dangers in everyday life	Topic 2.1. Rules of conduct in natural emergencies
	Topic 2.2.Rules of conduct in case of man-made
	emergencies
	Topic 2.3. social emergencies
	Topic 2.4. Terrorism is a threat to society
	Topic 2.5.Harmful addictions and their social
	consequences
Section 3. Basic principles of legal	Topic 3.1. Basic principles of legal support of BZ. The
support of BZ for medical workers.	main legislative acts and standards to ensure the safety
	of the population.
	Topic 3.2.Legal bases of ecological safety.
	Topic 3.3. Protection of public health and safety.
	Topic 3.4.Responsibility for violation of regulatory
	legal acts on the life safety of the population.
	Topic 3.5. Fundamentals of mobilization preparation of
	the health care system; basics of the health care system
	in wartime (when mobilization is announced)

Section 4. Providing first aid to those	Topic 4.1.Cardiopulmonary resuscitation, bleeding
injured in an emergency	control, transport immobilization of the victims' limbs.
	Topic 4.2. The concept of desmurgy.
	Topic 4.3. Simulation of various emergency situations.
	Topic 4.4. Types of first aid kits. Filling the first aid kit.
	Topic 4.5.First aid for burns, frostbite, external
	bleeding, poisoning, injuries.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Histology, Embryology, Cytology Oral
	Histology
Course Workload	Credits and academic hours $-6/216$
	Course
	contents
Course Module Title	Brief Description of the Module Content
Module I Lutre desting to the dissipline Dessent	1.1. Methods of histological, cytological and
methods	embryological studies
Module 2	2.1. Cell structure
Cytology.	2.2. Organelles and inclusions
	2.3. Nucleus: structure, functions. Cell cycle
Module 3	3.1. The concept of tissues. Epithelia. Glands.
Basic Histology.	3.2. The system of the internal environment
	tissues. Blood and lymph. Hematopoiesis.
	3.3. Connective tissues. Connective tissue
	proper. Connective tissues with special
	properties.
	3.4. Skeletal connective tissues. Cartilage.
	Bone tissues.
	3.5. Muscle tissues
	3.6. Nerve tissue
Module 4	4.1. Nerve System
Histology of organs and organ systems	4.2. Sensory system(Organs of special senses)
	4.3. Circulatory system
	4.4. System of organs of hematopoiesis and
	immune defense
	4.5. Endocrine system
	4.6 . Digestive system
	4.7. Respiratory system
	4.8. Skin and its derivatives
	4.9. Urinary system
	4.10. Reproductive system

Module 5	5.1. Features of the structure of the anterior
Oral Histology	part of the digestive tube
	5.2. Tooth structure
	5.3. Tooth development (odontogenesis)
	5.4. Salivary glands
Module 6	6.1. Common embryology
Embryology.	6.2. The basis of human embryology

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Aesthetic Restoration of Teeth	
Course Workload	Credits and academic hours $-2/30$	
Course contents		
Course Module Title	Brief Description of the Module Content	
Variants of teeth shape	Modern tooth designation systems. Variability of tooth shapes.	
Morphology of the crown part of the teeth	Methods of odontometry of teeth. Methods of odontoscopy of teeth.	
Clinical methods of examination of the patient when planning restorative therapy.	Cavity preparation, features of grinding and polishing.	
Determining the shape and color of teeth	Group of incisors of the upper and lower jaws. Group of canines of the upper and lower jaws. Group of premolars of the upper and lower jaws. Group of molars of the upper and lower jaws.	
Various ways to restore missing tooth tissue in aesthetic dentistry	Indirect and combined types of restoration. Indications and contraindications for the use of various methods of restoring hard tissues of teeth.	
Different types of adhesive technologies	New generation adhesive systems. Different types of light-curing materials. Choice of restoration materials.	
Stages and sequence of modeling teeth and various improvised materials on phantoms	Restoration of posterior teeth. Mistakes and their solutions. Stages of restoration: preparation, modeling, finishing. Restoration of the anterior teeth. Errors and their solutions. Stages of restoration: preparation, modeling, finishing.	

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RUDN University

Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Bases of translation
Course Workload	Credits and academic hours – 2 credits/72 academic
	hours
Course contents	
Course Module Title	Brief Description of the Module Content
The written medical interpretation: the nature,	Topic 1. Subject, tasks and methods of
functions, specifics	translation theory. Translation theory as a scientific
	discipline.
	Topic 2. The essence and specificity of medical
	translation. Place, role, functions of medical translation
	in professional communication of medical specialists.
Actual problems of the theory of written medical	Topic 3. The concept of translation activity,
translation and their role in the optimization of translation	professional translation competence.
practice.	Topic 4. Problems of quality of professional
	translation. Factors affecting the quality of translation
	activities.
Moral and ethical foundations and requirements	Topic 5. The concepts of "ethics", "morality",
for the work of a professional translator	"morality". The moral code of the translator. IMIA
	code of ethics.
	Topic 6. Ethics and etiquette, ethics and law in
	the field of written medical mediation.
Typical situations of written meditative	Topic 7. Types of written medical translation in
communication	the context of the purposes and conditions of written
	translation activities.
	Topic 8. "The author's factor" of the medical
	source text. "Destination factor".
Professionally oriented medical text / discourse	Topic 9. Mastering the genres of professionally
and its genres as an object of translation	oriented medical text / discourse in translation:
Professionally oriented medical text / discourse	scientific medical text; popular science text;
and its genres as an object of translation	instruction; advertising text; business letter.
	Topic 10. Mastering the genres of medical
	documentation in written professional translation.

External means (resources) of translation work.	Topic 11. Classification of a translator's aids:
Information retrieval strategies and techniques	dictionaries, encyclopedias, electronic sources, Internet
	resources, analogical texts. The General concept of the
	typology of dictionaries.
	Topic 12. The algorithm of the translator's
	actions, the use of different types of dictionaries to
	solve different translation problems. Bilingual
	dictionary; the inadmissibility of the use of obsolete
	vocabularies. Monolingual dictionary.
Electronic support of professional-oriented	Topic 13. Technical means of translation. Using
translation work	machine translation to work with professionally
	oriented medical text / discourse.
	Topic 14. Electronic dictionaries and reference
	books: types, strategies of work.
Cross-cultural aspects of medical translation	Topic 15. Translation as a process of mediated
	intercultural interlingual communication.
	Topic 16. The problem of translation. The
	Language picture of the world and translation.
	Topic 17. Transfer of pragmatic meanings.
Linguistic aspects of written medical translation.	Classification of types of pragmatic meanings (L.S.
Lexical-semantic and grammatical transformations	Barkhudarov). The role of pragmatic meanings in the
	translation process. Pragmatic aspect of translation.
	Topic 18. Transmission of intra-linguistic
	values. Grammatical meanings in translation.
	Difficulties related to the discrepancy between the
	grammatical systems of FL and PL. The transfer syntax
	values.
	Topic 19. Context and situation in translation
	Topic 20. Translation transformations.
Stylistic aspects of medical translation. The editing	Topic 21. Stylistic features of medical texts of
of the translated text	different genres.
	Topic 22. Strategies and tactics of translation
	text editing, methods and means of prevention and
	correction of errors in written medical translation.

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Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Bioelements in Medicine
Course Workload	Credits and academic hours – 3 / 108
Course contents	
Course Module Title	Brief Description of the Module Content
Introduction to Bioelements in Medicine	1. Biological classification of chemical elements.
	2. Introducing in the bioelementology.
	3. Biogeochemistry and factors affecting the elemental status
	of the population.
	4. New paradigm of nutrition and pharmacology.
General Elementology	5. Factors affecting the homeostasis of microelements.
	Interaction between microelements
	6. Elemental status of a person.
	7. Personalized assessment of human elemental status.
Particular Elementology	8. Essential and relative essential trace elements (iron, zinc,
	copper, manganese, chromium, cobalt, molybdenum,
	selenium, iodine, silicon, vanadium): role in the organism;
	suction; excretion; deficiency and toxicity; associated
	uiseases; sources.
	9. Macroelements (sunur, potassium, sourum, calcium,
	excretion: deficiency and toxicity: associated diseases:
	sources
	10 Toxic and potentially toxic trace elements (fluoride
	nickel arsenic lithium tin strontium aluminum lead
	cadmium, mercury): role in the organism: suction: excretion:
	toxicity; associated diseases; sources.
The role of chemical elements in Dentistry	11. Imbalances of chemical elements for various diseases of
	the oral cavity: caries, pulpitis, periodontitis, gingivitis,
	periodontitis.

Developers:

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Bioethics	
Course Workload	Credits and academic hours $-2/72$	
COURSE CONTENTS		
Course Module Title	Brief Description of the Module Content	
Unit 1. Ethics is philosophy science	Theme 1.1 Ethics is philosophy science	
	Theme 1.2 Professional Ethics	
Unit 2. Bioethics: its status, range of	Theme 2.1 Bioethics: its status, range of	
problems. Main notions of Bioethics and	problems	
Ethics.	Theme 2.2 World Medical Association and	
	its documents	
Unit 3. Modern biomedical ethics.	Theme 3.1 Modern biomedical ethics.	
Unit 4. Abortion. Ethical problems of	Theme 4.1 Abortion. Ethical problems of	
reproduction technologies.	reproduction technologies.	
Unit 5. Ethical problems of Gene Engineering	Theme 5.1 Gene Engineering (Humans)	
	Theme 5.2 GMO plants and animals.	
Unit 6. Death and Dying. End of Human Life.	Theme 6.1 Death and Dying. Palliative	
	medicine. End of Human Life.	
Unit 7. Organ transplantation	Theme 7.1 Organ transplantation	
Unit 8. Moral problems of phisical and mental	Theme 8.1 Moral problems of phisical and	
integrity of patient	mental integrity of patient	
Unit 9. Experiments involving Human being	Theme 9.1 Experiments involving Human	
and animals: legislative and moral background	being and animals: legislative and moral	
	background	

Developers:

Savinna O.V.

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Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Biological Chemistry – Oral Biochemistry	
Course Workload	Credits and academic hours – 6/216	
Course contents		
Course Module Title	Brief Description of the Module Content	
Section 1.	Topic 1. Introduction to biochemistry. Proteins: structure,	
Basic molecules - components of living systems	properties, functions	
	Introductory conversation. Subject, tasks and main directions	
	of biological chemistry. The main chemical components of	
	living systems. The concept of the structure of proteins.	
	Amino acids are monomers of protein molecules and peptides.	
	Proteinogenic amino acids. Classification of amino acids, their	
	physical and chemical properties. Biologically active peptides	
	(for example, oxytocin, vasopressin, glutathione, aspartame).	
	The structure of proteins, the concept of domains in their	
	molecules. Monomeric and oligomeric proteins. The concept of	
	protein folding, chaperones, ubiquitin and proteasomes. The	
	relationship between the structure of proteins and their	
	Tonia 2 Complex proteins, nucleic acids, linids	
	Conjugated (complex) proteins: nucleoproteins	
	chromoproteins phosphoproteins glycoproteins	
	proteoglycans lipoproteins metalloproteins complex enzyme	
	proteins. Features of their chemical structure and biological	
	role.	
	Nucleoproteins: a role in the phenomena of heredity. The	
	structure, biological functions of mononucleotides, the nature	
	of their binding in nucleic acids. ATP is a phosphate donor	
	during protein phosphorylation and the beginning of	
	mineralization.	
	Lipid chemistry, lipid formula. The main representatives of	
	various classes of lipids, including bile acids, cholesterol, fat-	
	soluble vitamins.	
	1 opic 5. Enzymes	
	Active center of enzymes, their adsorption and catalytic sites;	
	role and chemical diversity Features of enzymes as	
	biocatalysts Enzyme classification Enzyme activity	
	measurement, international units of activity, Dependence of	
	enzyme activity on substrate concentration, temperature and	
	pH; substrate specificity and specificity of the reaction	
	direction. Regulation of enzymatic activity. Enzyme inhibitors:	
	irreversible and reversible; competitive, non-competitive; the	
	concept of retroinhibition. Reversible enzyme inhibition - the	
	mechanism of many drugs action.	
	Topic 4. Vitamins	
	Vitamins - essential factors of human nutrition. Distribution of	
	vitamins in nature. Classification of vitamins, characteristics of	
	individual vitamins - thiamine, riboflavin, niacin, pantothenic	
	acid, pyridoxine, biotin, folic acid, cobalamin, ascorbic acid,	

	vitamins A, D, E, K. Causes and patterns of hypo- and
	hypervitaminosis in the body. Antivitamins - concept.
	Coenzymes are derivatives of vitamins.
	Hormonas are the coordinators of biochamical processes
	Subordination of endocrine organs Classification of hormones
	by chemical structure and place of synthesis The main
	mechanisms of hormone action. The concept of hormones role
	in metabolism regulation.
Section 2.	Topic 1. Introduction to metabolism. Biological oxidation
Metabolism and energy	Stages of metabolism in the body. The central role of acetyl-
	CoA in metabolic processes. Concept of compounds with high
	group transfer potential. The tricarboxylic acid (TCA) cycle as
	the final stage in the catabolism of acetyl fragments formed
	during the breakdown of carbohydrates, lipids and amino acids;
	Its connection with biological oxidation. Biological oxidation (tissue respiration) as a set of redev
	processes involving ovvgen Mitochondrial ovidation (the
	respiratory electron transport chain) is the main way of oxygen
	utilization in the body. Respiratory chain components.
	Nicotinamide and flavin dehydrogenases as the initial links of
	the respiratory chain. Oxidative phosphorylation of ADP. The
	concept of substrate phosphorylation of ADP.
	Topic 2. Metabolism of carbohydrates
	The biological role of carbohydrates. Classification of
	energy storage. The central role of glucose in carbohydrate
	metabolism. Possible pathways for the conversion of glucose-
	6-phosphate. Anaerobic conversion of glucose (glycolysis).
	Regulation and energy output of glycolysis.
	Synthesis (glycogenesis) and breakdown (glycogenolysis) of
	glycogen. Energy yield of glycogenolysis. Hormonal regulation
	of glycogen synthesis and breakdown. Features of carbohydrate
	metabolism in muscles and liver. The concept of glucopaggapasis and the starting for glucopaggapasis. Stages
	of gluconeogenesis and its regulation. Corv cycle
	Aerobic carbohydrate metabolism. Oxidative decarboxylation
	of pyruvate. Energy yield of aerobic breakdown of glucose.
	Oxidative stages and biological significance of the pentose
	phosphate pathway of glucose oxidation in different tissues.
	The consequences of thiamine deficiency in the body. Features
	of carbohydrate metabolism in erythrocytes. Glucose-6-
	phosphate dehydrogenase, NADPH, glutathione, and drug- induced homolutic anomic Disorders of carbohydrote
	metabolism (hypo- and hyperglycemia, their causes: type 1 and
	2 diabetes, lactase deficiency. Von Gierke's disease).
	Diagnostic value of glucose tolerance test (sugar load) and
	determination of glycosylated hemoglobin in blood.
	Topic 3. Lipid metabolism
	Triacylglycerols (TAG) breakdown in adipocytes, hormone-
	sensitive lipase. Conversion of glycerol. Synthesis of TAG,
	sources of glycerol in various tissues. Beta-oxidation of fatty
	biosynthesis (sources of acetyl-CoA and NADPH (H ⁺) in
	various tissues.
	Acetone bodies (biological role). The central role of acetyl-
	CoA in lipid metabolism. Ways of cholesterol transformation
	in the body, regulation of its synthesis. The relationship
	between the metabolism of fats and carbohydrates. Regulation
	of lipid metabolism.
	protein metabolism
	Amino acid catabolism: transamination of amino acids
	deamination of amino acids, decarboxylation of amino acids.
	biogenic amines, their physiological and pharmacological
	action, hydroxylation of amino acids, the mechanism of this
	process (the role of ascorbate, tetrahydrobiopterin). Glucose-
	alanine cycle.
	Conversion of a nitrogen-free amino acid residue. Glycogenic
	of individual amino acids: specific pathways for the exchange
	T OF INGLVIQUAL ATTINO ACIUS. STVETTE, SETTIE ATTU THEUTIONITE AS

	donors of one-carbon fragments. Phenylalanine, tyrosine and
	tryptophan as starting molecules for the synthesis of
	catecholamines, serotonin and melatonin. Pathology of protein
	and amino acid metabolism: hyperammonemia, type I and II,
	phenylketonuria, alkaptonuria, albinism, Hartnup's disease,
	maple syrup disease.
	Initial molecules for the synthesis of nucleotides in the body.
	Rescue paths for nitrogenous bases. Decomposition products of
	pyrimidine and purine nucleotides. The role of xanthine
	oxidase. Uric acid as a final product of the purine nucleotides
	breakdown. Violation of the purine nucleotides exchange (gout,
	Lesch-Nyan syndrome).
Section 5. Bischemistry of hady flyida	10pic 1. Biochemistry of blood and urine Buffer systems of blood and solive. Easters that determine pU
biochemistry of body fluids	Builer systems of blood and saliva. Factors that determine pr
	constancy. Dissociation constants, fienderson-masserbach
	blood Violations of acid base balance: alkalosis and acidosis
	metabolic and respiratory. Hyperammonemia and mechanisms
	of ammonia neutralization. Neutralization of ammonia in cells:
	sources of ammonia mechanism of its toxic action binding
	(neutralization) of ammonia: ornithine (urea) cycle formation
	of glutamine (in the brain) and asparagine, reductive amination
	of α -ketoglutarate, synthesis of creatine, formation and
	excretion of ammonium salts through the kidneys.
	Blood composition. Protein composition of blood, fractions of
	blood proteins, dysproteinemia, paraproteinemia. The main
	proteins of blood plasma: albumin, globulins. Functions of the
	main proteins of blood serum. Methods for quantitative
	analysis of protein fractions of blood. Hemoglobin: structure,
	normal variants and pathological forms of hemoglobin (HbA,
	HbA2, HbF, HbA1C, MetHb, HbCO, HbS), the concept of
	thalassemia. Regulation of the hemoglobin binding with
	oxygen. Bohr effect. Features of iron absorption and transport
	in the body. Initial and final stages of heme synthesis.
	Regulation of neme synthesis. Here breakdown. Indirect and
	Coognitation system of the blood Ricod coognition cases de
	Eibrinous thrombus formation Anticoogulant blood system
	Fibrinolysis Blood clotting disorders (coagulonathy)
	Urine composition Relative density acidity inorganic
	components of urine.
	Introduction to laboratory diagnostics. Basic biochemical
	parameters in blood plasma and urine in diabetes mellitus,
	myocardial infarction, crush syndrome, hemolysis, liver
	dysfunction (cytolysis syndrome, hepatocellular failure
	syndrome), biliary obstruction, renal failure, pancreatitis. Bile
	pigments (total and direct bilirubin), hepatocyte enzymes
	(alanine and aspartate aminotransferases, alkaline phosphatase,
	γ -glutamyl transferase), indicators of protein-synthetic liver
	prothrombin index (PTI) and international normalized ratio
	(INR)) Isozymes their role in enzyme diagnostics The
	concept of immobilized enzymes Indicators of biochemical
	analysis of urine and their diagnostic value: urea, creatinine.
	uric acid, urobilinogen, oxalate. Pathological conditions
	accompanied by proteinuria, glucosuria, ketonuria. Enzymes
	detected in urine: pancreatic amylase and its diagnostic value.
	Topic 2. Biochemistry of oral fluids
	Mixed saliva composition. Saliva secretion. Regulation of
	secretion and production of saliva. Inorganic and organic
	components of mixed saliva. Micellar structure of saliva.
	Gingival fluid.
	Salıva proteins: mucins; proteins rich in proline; histatins,
	lactoterrin, group-specific glycoproteins. Immunoglobulins:
	structure and function, types of immunoglobulins.
	saliva enzymes: digestive enzymes, antioxidant enzymes, acid
	Oxidative stress: reactive ovugen species redox belance
	respiratory hurst damage to proteins linide nucleic acide by
	reactive oxygen species. The antioxidant system of the human
	body: a brief description of the enzymatic (catalase, peroxidase,

superoxide dismutase) and non-enzymatic links of the antioxidant defense.
Superdental formations: cuticle, pellicle, plaque, tartar.
Features of the biochemical composition.
Enzymes of microorganisms: bacterial urease, nitrate reductase
and nitrite reductase. The role of bacterial metabolism in the
development of oral diseases. Enzyme systems of bacteria.
Decay of proteins, change in acid-base balance, digestive
disorders in the oral cavity due to overgrowth of bacteria.
Topic 3. Biochemistry of inflammation
Inflammatory mediators. Eicosanoids. Interleukins. Acute
phase proteins. Changes in the biochemical blood test during
inflammation, markers of inflammatory processes. Influence of
inflammation on the process of bone mineralization.
The diagnostic value of the biochemical analysis of saliva.
Changes in the analysis of saliva with periodontitis and caries.
Changes in the composition of saliva in acute pancreatitis,
renal failure, diabetes mellitus, hypothyroidism and Itsenko-
Cushing's syndrome.
Topic 4. Biochemistry of digestion
Salivary enzymes: amylase, lysozyme, maltase, lingual lipase,
DNase and RNase.
The biological value of proteins. The completeness of protein
nutrition. Protein norms in the diet. The rate of renewal of
individual body proteins. Digestion of proteins. Digestive
enzymes of the stomach and pancreas. Mechanisms of their
activation. The role of hydrochloric acid. Conversion of amino
Digastion of fats. Lingual and paparantia lingua. Activation
Digestion of fais. Lingual and pancieatic lipase. Activation
functions Bile acids: primary and secondary conjugated bile
acids. Enterohenetic circulation of hile acids. The role of hile
acids, in the digestion of fats Features of absorption and
transport of lipids: the role of hile acids and lipoproteins
Resynthesis of triacylalycerols (TAG) and other dietary lipids
in enterocytes
Digestion of carbohydrates Amylase lingual and nancreatic
Oligo-alpha-1 6-glycosidase Enzymes of cavity and parietal
digestion: sucrose-isomaltase complex, glycoamylase complex
lactase.
notuso.

Section 4.	Topic 1. Biochemistry of the main proteins of connective
Biocnemistry of connective tissue	Callearer Terres of a ll
	Collagens. Types of collagens, amino acid composition of type
	I collagen, levels of structural organization of type I collagen,
	collagen maturation process. Post-translational modification:
	nydroxylation of proline and lysine amino acid residues,
	glycosylation. Intermolecular cross-linking of collagen: the
	nuridinalina Callagan brackdown process matrix protainasas
	biochemical markers of collagen breakdown: bydroxyproline
	C_{-} and N-telopentides their clinical significance Regulation of
	collagen synthesis and breakdown Diseases associated with
	collagen defects: Vrolik syndrome Ehlers-Danlos syndrome
	Alport syndrome, type II achondrogenesis. Collagen
	maturation disorders in vitamin C deficiency, diabetes mellitus,
	Menkes disease and systemic sclerodermia.
	Elastin. Structure and function. Changes in the structure of
	elastin in emphysema, Menkes disease, periodontitis and
	gingivitis. Fibronectin, laminins, fibrillin (functions and their
	defining features of the protein structure).
	Topic 2. Biochemistry of the main non-protein components of
	the connective
	Proteoglycans. The structure and function of
	glycosaminoglycans: hyaluronic acid, heparin, sulfated
	glycosaminoglycans. The structure of the disaccharide units of
	glycosaminoglycans. Stages of proteoglycan synthesis, the role
	discontinuor in the formation of functionary complete alwosaminoglycans Small and large proteoglycans
	Breakdown of glycosaminoglycans: sulfatase and glycosidase
	Mucopolysaccharidoses: congenital enzyme deficiencies in
	mucopolysaccharidoses I (Hurler / Scheie), II (Hunter) type,
	clinical signs, principles of diagnosis and treatment. Enzyme
	replacement therapy.
	Topic 3. Biochemistry of mineralized tissues
	Organic components of mineralized tissues. Bone matrix
	proteins. Adhesive proteins: fibronectins, laminins, nidogens,
	osteopontin, bone sialoprotein, osteonectin. Biological
	functions. Calcium-binding proteins: osteocalcin, Gla-proteins,
	phosphorins. Gamma-carboxylation of glutamic acid residues,
	Bone enzymes that regulate phosphate metabolism: alkaling
	nhosphatase acid nhosphatase nyrophosphatase
	Mineral components of bone tissue. Hormonal regulation of
	calcium metabolism. The structure of hydroxyapatites. molar
	calcium-phosphate coefficient. Isomorphic substitutions of ions
	in the structure of hydroxyapatites. Fluorosis, Kashin-Beck
	syndrome, hydroxyapatite arthropathy.
	Bone tissue remodeling, stages. The process of mineralization
	of the protein matrix and its regulation. Calcification. Disorders
	ot bone tissue remodeling: osteopetrosis, Paget's disease,
	osteoporosis, ostomalacia and rickets, hyperostosis,
	Osteogenesis imperiecta.
	biochemical markers of formation (U- and N-terminal
	resorption (collagen breakdown products, osteoclast angumes
	and markers of osteocyte activity) their clinical significance
	Composite materials, implants and their changes in the oral
	cavity over time.
	· ·

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RUDN University

Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2023

The discipline	Biology
Course Workload	Credits and academic hours -5 (180)
Course	contents
Course Module Title	Brief Description of the Module Content
1. Biology is the science of life.	Methods which are used in modern biology.
The cell as a structural and functional unit of living	Structure of prokaryotic and eukaryotic cells. The cell
things	theory. The flow of information and energy in the cell.
2. The genetic material	Structure and functions of nucleic acids. DNA
	replication. Mutations.
3. Gene expression.	Transcription and translation. Control of gene
Organization of genomes	expression in prokaryotic and eukaryotic cells.
	Organization of prokaryotic, eukaryotic and viral
	genomes.
4. The cytological basis for the growth and	Chromosomes, karyotypes. Gene, genotype, phenotype.
reproduction	Allelic and non-allelic, linked and non-linked,
	pleiotropic and lethal genes. Penetrance and
	expressivity. Types of gene interaction.
	The life cycle of cells, the mitotic and meiotic cell
	divisions. Control of the cell cycle.
5. The laws of heredity	The history of Genetics. The laws of heredity.
6. Human Genetics	Methods of human genetics. Hereditary diseases and
	their causes. Principles of diagnosis, treatment and
	prevention of hereditary diseases. Genetic counseling.
7. Medical Parasitology	The diversity of the organic world. Parasitism as an
	ecological phenomenon. Human parasites, vectors, hosts
	and reservoirs of pathogens.
8. Biological evolution	Biological evolution. Theories of evolution.
9. The Humans and the Biosphere	Ecosystems. Medical aspects of the environmental
	control.

Developers:

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Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Chemistry of biogenic elements
Course Workload	Credits and academic hours $-2/72$
Co	urse tonts
Course Module Title	Brief Description of the Module Content
	-
Forms of finding metal cations in living	General concepts of the chemistry of
systems. Coordination compounds.	biogenic elements. The role of inorganic
	elements (metal cations) in life processes.
	Complex compounds. Composition,
	electronic structure, nomenclature. Chemical
	reactions involving complex compounds.
	Examples of vital complex compounds:
	hemoglobin, chlorophyll, metalloenzymes.
Ways to maintain pH in living systems.	The concept of pH. Changes in pH in neutral,
Buffer solutions.	acidic and alkaline solutions. buffer
	solutions. Mechanism of action and pH of
	buffer solutions of various compositions.
	buffer capacity. Buffer solutions in living
	systems.
Forms of transportation and storage of metal	Soluble and insoluble forms, including
cations in living systems. Colloidal solutions	biometals. Stabilization of soluble forms due
	to micellization. The concept of colloidal
	solutions. Composition and structure of
	micelles. Methods for obtaining and
	physical-chemical characteristics of colloidal
	solutions.
Redox reactions	The concepts of oxidation and reduction.
	Typical oxidizing and reducing agents.
	Changing the oxidation states of typical
	oxidizing and reducing agents. Method of
	ion-electronic balance of redox reactions.

	Redox reactions in living systems.
The methods of qualitative and quantitative	The concept of qualitative analysis. Group
analysis in bioinorganic chemistry	and specific reactions of cations and anions.
	Quantitative titrimetric analysis and its
	application in bioinorganic chemistry

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Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Chemistry
Course Workload	Credit and academic hours - 3/108
Course contents	
Course Module Title	Brief Description of the Module Content
Classes of inorganic compounds	Main classes of inorganic compounds. Double
	oxides. Ceramic materials.
Basic concepts of thermodynamics. First and	Subject and methods of chemical
second laws of thermodynamics.	thermodynamics. The relationship between
	the processes of metabolism and energy in the
	body. Chemical bioenergetics. Basic concepts
	of thermodynamics. Intensive and extensive
	parameters. State function. Internal energy.
	Work and heat are two forms of energy
	transfer. Types of thermodynamic systems
	(isolated, open, closed). Types of
	inermodynamic processes (isothermal,
	thormodynamics Enthalpy Standard
	enthalpies of formation and combustion of a
	substance Standard enthalpy of reactions
	Hess' law Application of the first law of
	thermodynamic to biosystems. The second
	law of thermodynamics. Reversible and
	irreversible processes. Entropy. Gibbs energy.
	Forecasting the direction of spontaneous
	processes in isolated and closed systems; the
	role of enthalpy and entropy factors.
	Thermodynamic equilibrium conditions.
	Standard Gibbs energies of formation and
	biological oxidation of matter. Standard
	Gibbs energy of the reaction. Examples of
	exergonic and endergonic processes occurring
	in the body. The principle of energy
	conjugation.
Basic concepts of chemical kinetics.	Chemical balance. Reversible and irreversible
Classification of reactions in kinetics.	reactions. Thermodynamic equilibrium
	conditions in isolated and closed systems.

	Chemical equilibrium constant. The equation
	of the isotherm and isobar of a chemical
	reaction. Subject and basic concepts of
	chemical kinetics. Chemical kinetics as a
	basis for studying the rates and mechanisms
	of biochemical processes. Average speed and
	true speed. Classification of reactions in
	kinetics: homogeneous, heterogeneous,
	simple and complex reactions. Molecularity
	of the elementary act of the reaction. Kinetic
	equations. Reaction order. half-life.
	Dependence of reaction rate on concentration.
	Kinetic equations of zero, first, second order
	reactions. Experimental methods for
	determining the rate and rate constant of
	reactions. The dependence of the reaction rate
	on temperature. The temperature coefficient
	of the reaction rate and its features for
	biochemical processes. The concept of the
	theory of active collisions. Activation energy.
	Arrhenius equation; the role of the steric
	factor. The concept of the theory of the
	transition state. Catalysis. Homogeneous and
	heterogeneous catalysis. Energy profile of the
	catalytic reaction. Features of the catalytic
	activity of enzymes. Michaelis-Menten
	equation and its analysis.
Concentrations and colligative properties of	Classification of solutions. Methods for
solutions.	expressing the concentrations of solutions.
	Volumetric analysis. Titration. Raoult's law,
	cryoscopy, ebullioscopy, Van't Hoff's law,
The side of a second state of the second state	isotonic, nyper-, nypotonic solutions.
tonic equilibrium in electrolyte solutions.	Acidity basicity constants the relationship
	Actually, basicity constants, the relationship between the acidity and basicity constant in a
	between the actuary and basicity constant in a
	conjugated prototytic pair, the general
	equilibrium Protolytic processes occurring in
	the oral cavity their effect on hard dental
	the oral cavity, then effect on hard dental
	tissues Ionic product of water nH of
	tissues. Ionic product of water, pH of solutions: hydrolysis of salts degree and
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis Hydrolysis of food
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions.
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of gastric juice. The role of pH in body fluids.
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of gastric juice. The role of pH in body fluids. Solubility constant. General constant of
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of gastric juice. The role of pH in body fluids. Solubility constant. General constant of combined heterogeneous equilibrium.
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of gastric juice. The role of pH in body fluids. Solubility constant. General constant of combined heterogeneous equilibrium. Conditions for the formation and dissolution
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of gastric juice. The role of pH in body fluids. Solubility constant. General constant of combined heterogeneous equilibrium. Conditions for the formation and dissolution of precipitates. The phenomenon of
	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of gastric juice. The role of pH in body fluids. Solubility constant. General constant of combined heterogeneous equilibrium. Conditions for the formation and dissolution of precipitates. The phenomenon of isomorphism.
Reactions of complexing	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of gastric juice. The role of pH in body fluids. Solubility constant. General constant of combined heterogeneous equilibrium. Conditions for the formation and dissolution of precipitates. The phenomenon of isomorphism. Werner's coordination theory. The nature of
Reactions of complexing	tissues. Ionic product of water, pH of solutions; hydrolysis of salts, degree and constant of hydrolysis. Hydrolysis of food products in the oral cavity and its effect on hard dental tissues. buffer solutions. hydrolysis of starch. Ampholytes. Acidity of gastric juice. The role of pH in body fluids. Solubility constant. General constant of combined heterogeneous equilibrium. Conditions for the formation and dissolution of precipitates. The phenomenon of isomorphism. Werner's coordination theory. The nature of the chemical bond in complex compounds.

	Nomenclature of complex compounds. Polydentate ligands. Chelation. The structure of hemoglobin, chlorophyll. Stability of complex compounds in solutions. Complex instability constant. Toxic effect of salts of heavy metals. Antidotes.
Disperse systems	Classification of dispersed systems.
	Classification of dispersed systems according
	to the degree of dispersion: according to the
	state of aggregation; according to the strength of intermolecular interaction between the dispersed phase and the dispersion medium.
	The nature of the colloidal state. Obtaining
	and properties of dispersed systems.
	Obtaining suspensions, emulsions, colloidal
	solutions. Dialysis, electrodialysis,
	alloidal dispersed systems: Provision
	motion diffusion osmotic pressure
	sedimentation equilibrium Ontical properties:
	light scattering (Rayleigh's Law).
	Electrokinetic properties: electrophoresis and
	electroosmosis; flow potential and
	sedimentation potential. The structure of the
	electrical double layer. Electrokinetic
	potential and its dependence on various
	factors. Stability of dispersed systems.
	Sedimentation, aggregation and condensation
	stability of lyosols. Factors affecting the
	threshold and its definition Schulze-Hardy
	rule, habituation phenomenon, mutual
	coagulation. The concept of modern theories
	of coagulation. Colloidal protection and
	peptization. Colloidal surfactants; biologically
	important colloidal surfactants (soaps,
	detergents, bile acids). Micellization in
	surfactant solutions. Determination of the critical micelle concentration. Liposomes.
Electrochemical processes and redox	The theory of redox processes. The concept of
reactions.	redox systems. Standard redox potentials. The
	metal prosthetics. The appearance of a double
	electric layer at the metal-electrolyte
	interface. Electrode potential. methods of its
	measurement. Electrochemical series of
	voltages of metals. The principle of operation
	of galvanic cells. Dental materials. Their
	classification, brief description, application in
	dentistry. Basic (structural) dental materials:
	metals and alloys, polymers, ceramics.
	Corrosion of metals, its types.
	contrance: factors contributing to its flow in
	occurrence, racions contributing to its now in

	the oral cavity during metal prosthetics.
Classification of organic reactions.	Classification of organic reactions according
Conjugated and aromatic compounds.	to the number of initial and final substances,
	according to the nature of the reagents.
	Conjugated connections: types of
	conjugation, examples of open and closed
	conjugated systems. Aromaticity of
	compounds.
Mutual influence of functional groups in	Mutual influence of atoms in a molecule.
molecules of biologically active	Electronic effects: inductive and mesomeric.
polyheterofunctional and high molecular	Electrodonor and electroacceptor substituents,
weight organic compounds.	their influence on the reactivity of
	compounds.
Biologically active macromolecular	Polymers. The concept of medical polymers.
substances (structure, properties, participation	Properties of IUD solutions. Features of the
in the functioning of living systems).	dissolution of IUDs as a consequence of their
	structure. The shape of macromolecules. The
	mechanism of swelling and dissolution of the
	IUD. Dependence of the swelling value on
	various factors. Anomalous viscosity of HMS
	solutions. Staudinger equation. Viscosity of
	blood and other biological fluids. Osmotic
	pressure of biopolymer solutions.
	Polyelectrolytes. Isoelectric point and
	methods for its determination. Donnan
	membrane equilibrium. Oncotic pressure of
	plasma and blood serum. Stability of
	biopolymer solutions. Salting out
	biopolymers from solution. Coacervation and
	its role in biological factors. Gelation of IUD
	solutions. Jelly properties: syneresis and
	thixotropy.

Polyanskaya N.A.

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Stepnova A.F.

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HEAD OF EDUCATIONAL DEPARTMENT Razumova S.N.

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Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Clinical Dentistry
Course Workload	Credits and academic hours - 4 (144)
Course contents	
Course Module Title	Brief Description of the Module Content
	Aims and objectives of the discipline "Clinical
	Dentistry". The role and place of a dentist in clinical
	medicine oral manifestations in some common
Introduction to Clinical Dentistry	diseases (demonstration analysis and rare cases of
introduction to Chinear Dentistry.	clinical experience chair requiring general clinical
	training dentists). Algorithm Diagnostics and
	interdisciplinary interaction. Principles, especially the
	treatment. (Symptomatic and pathogenetic therapy)
Mistakes and complications in practice dentist	Mistakes and complications in practice dentist
general practice.	general practice.
	Determination of the microcirculation. Types of
Physiological and pathophysiological basis of the	microcirculatory disorders. Communication
microcirculation in the mouth.	microcirculatory problems with oral mucosa and
	dental somatic pathology.
The manifestations of general diseases of the mouth	Manifestations in the mouth of diabetes,
The maintestations of general discuses of the mount.	hypertension, blood diseases and HIV infection.
	Features a survey of cardiac patients. Clinical
Providing dental care to patients with cardiac disease.	experience with the department. Long-term results of
	clinical observations.
Overview of modern means and methods of beam	The main objectives and principles of X-ray
diagnostics of the head and neck.	diagnostics in the mouth. Types ray studies (CT,
	MRI, PET, CT, Bone scan)
The role of the dentist in solving interdisciplinary	Parsing complex clinical cases using tools and
problems.	methods for telemedicine.
	Demonstration clinical department material.
	Consultation on the preparation and protection of the
	course work.
	Clinical modeling application of composite materials
	for eliminating the defects of hard tissues of teeth of
Clinical simulation ambulatory situations requiring	different origin. Clinical modeling restoring teeth
dental-surgery.	with crowns, veneers and tabs.
	Demonstration of dental photographs on clinical

	examples from the professional experience of general practice dentist.
Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases.	Clinical aspects of calcium metabolism in an organism. The role of calcium in the prevention of dental diseases.
Clinical aspects of immunity in the oral cavity. Protective barrnaya and function of the oral mucosa.	Clinical aspects of immunity in the oral cavity. Protective barrier function of the oral mucosa.

Gvozdikova E.N.

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HEAD OF EDUCATIONAL DEPARTMENT

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course title	Clinical pharmacology
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
General issues of clinical pharmacology.	 Subjects and tasks of clinical pharmacology. Clinical research. Principles of evidence-based medicine. Fundamentals of clinical pharmacokinetics. Fundamentals of clinical pharmacodynamics. Fundamentals of clinical pharmacodynamics. Drug interactions. Drug safety. Adverse drug reactions.
Clinical and pharmacological approaches to rational pharmacotherapy in routine dentistry practice and in emergency situations.	 2.1. Clinical pharmacological approaches to choosing and prescribing antibacterial drugs in dentistry practice. 2.2. Clinical pharmacological approaches to choosing and prescribing antifungal and antiviral drugs in dentistry practice. 2.3. Clinical pharmacological approaches to choosing and prescribing antiseptic drugs and irrigants in dentistry practice. 2.4. Clinical pharmacological approaches to choosing and prescribing analgesic drugs in dentistry practice. 2.5. Clinical pharmacological approaches to choosing and prescribing anti-inflammatory, anti-allergic drugs and immunomodulators in dentistry practice. 2.6. Clinical pharmacological approaches to choosing and prescribing anti-inflammatory, anti-allergic drugs and immunomodulators in dentistry practice. 2.6. Clinical pharmacological approaches to choosing and prescribing drugs in hemostasis disorders (bleedings and thrombosis). 2.7. Clinical pharmacology of drugs to treat phosphoric

calcium metabolism disorders.
2.8. Clinical pharmacological approaches to choosing
and prescribing drugs in urgent and life-threatening
conditions in dentistry practice.

I.I. Shkrebniova

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S.K. Zyryanov name and surname

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Dental Modeling of Teeth	
Course Workload	Credits and academic hours – 2/72
	Course contents
Course Module Title	Brief Description of the Module Content
Module 1 Dental modeling	Topic 1.1. Dental anatomy. <i>Types</i> of <i>Teeth</i> and <i>Their</i> <i>Functions. Occlusion. Dental arches shapes and</i> <i>forms.</i> Types of teeth alignment. Dental articulation, its effect on teeth alignment, and the anatomical shape of teeth. Functional occlusal plane (Spee, Wilson)
	Topic 1.2. Types of dental restorations in which knowledge of the dental anatomy and teeth alignment, is needed
	Topic 1.3. Guides and features of carving the maxillary central incisor. Carving in modeling clay.
	Topic 1. 4. Guides and features of carving the maxillary lateral incisor. Carving in modeling clay.
	Topic 1.5. Guides and features of carving the mandibular central incisor. Carving in modeling clay
	Topic 1.6. Guides and features of carving the mandibular lateral incisor. Carving in modeling clay.
	Topic 1.7. Guides and features of carving the maxillary canines. Carving in modeling clay
	Topic 1.8. Guides and features of carving the mandibular canines. Carving in modeling clay.
	Topic 1.9. Guides and features of carving the maxillary first premolar. Carving in modeling clay

Topic 1.10. Guides and features of carving the maxillary second premolar. Carving in modeling clay
Topic 1.11. Guides and features of carving the mandibular first premolar. Carving in modeling clay. Topic 1.12. Guides and features of carving the mandibular second premolar. Carving in modeling clay.
Topic 1.13 Guides and features of carving the maxillary first molar. Carving in modeling clay. Topic 1.14. Guides and features of carving the maxillary second molar. Carving in modeling clay Topic 1.15. Guides and features of carving the mandibular first molar. Carving in modeling clay. Topic 1.16. Guides and features of carving the mandibular second molar. Carving in modeling clay. Topic 1.17. Final colloquium.
Total: 17 lessons (1 course -1 semester).

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course title	Dental oncology and radiotherapy
Course workload	Credits and academic hours - 2/72
Course	contents
Course Module Title	Brief Description of the Module Content
1. X-ray methods of diagnostics	Physical basis for getting a diagnostic image in X-
	ray examination, methods of X-ray examination
	(radiography, fluorography, electro-radiography,
	fluoroscopy, TV fluoroscopy, digital radiography)
2. Ultrasonography	Physical properties of ultrasound, source and
	receiver of ultrasound, principles of modern
	ultrasonographic equipment, major methods of
	ultrasonograpy
3. X-ray computed tomography (CT) and magnetic	CT and principles of getting images in CT.
resonance imaging (MRI)	Distinctions from conventional tomography, areas of use,
	indications and contraindications. MRI and principles of
	getting images in MRI. Indications and contraindications.
4. Basis of radionuclide methods	Principles of radionuclide diagnostics, typical
	radionuclide diagnostic system, classification of
	radionuclide examinations, principles of
	and pharmacological properties classification of
	radiopharmaceuticals depending on the effective excretion
	half-life
5. X-ray methods for facial-jaw area	All methods of internal and external radiography of
	teeth, classification including general-view radiography,
	intra-mouth, external radiographs, radiography in oblique
	contact and tangential projections, indications for each of
	those methods.
6. Development and anatomy of teeth and jaws in	Three periods of teeth development, X-ray variants
radiography	and characteristics of each period (degree of minoralization stages of mediaes' formation). Bassana of
	dentition reterdation and their detection
7 Diagnostics of in-born and acquired deformities of	Various anomalies of teeth position and
facial jaws ragion	development: change of their number size shape and
lacial-jaws region.	structure. X-ray picture and clinical signs in each kind of
	teeth anomaly, diagnostic value of X-ray methods.
8. X-ray diagnostics of caries, pulpitis, periodontitis,	X-ray features of caries depth depending on size
paradentium diseases.	and localization. Differential diagnostics of caries in X-
	ray examination. Algorithm of X-ray examinations in
	caries.

	Classification of pulpitis. X-ray examination in
	pulpitis.
	Classification od X-ray features of periodontitis
	(acute apical, chronic with granuloma formation, chronic
	fibrotic, exacerbation of chronic course). Algorithm of X-
	ray examinations in periodontitis.
9. X-ray diagnostics of traumas of the jaws and teeth.	Classification of fractures of maxilla, mandibula,
Temporomandibular joint	cheekbone. X-ray method and other methods in traumas
Temporomandroutai joint	of facial-jaws region
	of factal jaws region.
10. X-ray diagnostics of malignant tumors of the jaws	The main groups of malignant tumors according to
	histology (cancer, sarcoma) and localization, all methods
	of diagnostic radiology in tumors of facial-jaw region,
	indication for and diagnostic value of each method.
11. X-ray diagnostics of benign tumors and cysts of the	The main groups of odontogenic and non-
issues. The main methods of radiation therapy	odontogenic cysts their X-ray features used for
jaws. The main methods of radiation dierapy.	differential diagnostics The main methods of X-ray
	diagnostics of those cysts
	The main groups of henign tumors: odoptomas
	amaloblasomas comentomas myxomas edentogenic
	fibroma ostaoglastoma their Y ray fasturas used for
	differential diagnostics
	Anotomical fractional of manufill and manufille langest
12. Diagnostic radiology in salivary glands diseases	Anatomical features of parolid, submandibular and
	sublingual salivary glands, classification of their diseases
	depending on etiology and pathogenesis, characteristic X-
	ray features of various diseases.
	Contrast method of X-ray examination, contrast
	media; indications contraindications and diagnostic value
	of sialography.
13. Radiation oncology.	Equipment for radiotherapy. Topometry. Methods of
	radiotherapy. Radiotherapy from 1 field and multiple
	fields. Distant radiotherapy, intra-tissue irradiation.
15. Basic principles of radiotherapy for tumors of facial-	Variants of radiotherapy and their use in the diseases of
jaw region.	facial-jaw tumors, possible combination of radiotherapy
	with other methods of treatment.
16. Credit test	

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R.A. Parkhomenko

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A.D. Kaprin

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course title	Dermatovenereology	
Course workload	Credits and academic hours - 3/108	
Course contents		
Course Module Title	Brief Description of the Module Content	
	SKIN ANATOMY, PHYSIOLOGY, AND HISTOLOGY	
	The structure of the skin and oral mucosa. Cellular composition of the skin and oral mucosa.	
	Fibers, blood vessels, receptors, and skin innervation. Skin appendages: hair, nails, glands. Skin and oral	
	mucosa functions. Basic pathohistological processes in	
	the skin and oral mucosa.	
	ELEMENTS OF RASH	
	Primary elements of the rash. Evolution of the	
	elements. The structure of the elements. Classification of	
	the elements. Polymorphic and monomorphic rash.	
1. Conservat deservated a serv	Secondary elements of the rash, their formation	
1. General dermatology	METHODS OF EXAMINATION OF	
	DERMATOLOGICAL PATIENT	
	The value of questioning the patient. Anamnesis	
	morbi. Examination of the skin and visible mucous	
	membranes. Evaluation of subjective sensations.	
	Carrying out diagnostic tests and samples, identifying	
	pathognomonic symptoms. Laboratory and instrumental	
	methods of diagnosis.	
	GENERAL PRINCIPLES OF DIAGNOSTICS AND	
	IREATMENT OF DERMATOLOGICAL PATIENTS.	
	The most used groups of drugs Means of external	
	therapy. Physiotherapy treatments. Phytotherapy. Spa-	
	treatment.	
2. Particular dermatology	INFECTIOUS AND PARASITIC DISEASES OF THE	
	SKIN	
	Etiopathogenesis. The clinical picture. The main	
	symptoms and syndromes. Features of the diseases	
	diagnostics treatment and prevention	
	DISEASES OF THE ORAL MUCOSA-LICUEN	
	PLANUS, PEMPHIGUS, LUPUS ERYTHEMATOSUS	
	Etiopathogenesis. The clinical picture. The main	
	symptoms and syndromes. Differential diagnosis.	

	Principles of diagnosis, treatment, and prevention
	DERMATITIS, ECZEMA, TOXICODERMIA. QUINCKE EDEMA, URTICARIA Etiopathogenesis. The clinical picture. The main symptoms and syndromes. Peculiarities in children
	Differential diagnosis. Diagnostic principles of treatment and prevention.
	ERYTHEMA EXUDATIVE MULTIFORME. STEVENS-JOHNSON'S SYNDROME AND LYELL'S SYNDROME Etiopathogenesis. The clinical picture. The main symptoms and syndromes. Peculiarities in children. Differential diagnosis. Diagnostic principles of treatment and prevention.
	CHEILITISES. PRECANCEROUS DESEASES OF THE LIPS. ROSSOLIMO-MELKERSSON- ROSENTHAL SYNDROME Etiopathogenesis. The clinical picture. The main symptoms and syndromes. Differential diagnosis. Diagnostic principles of treatment and prevention.
3. Venerology	SYPHILIS The general classification. Aetiological agent. Epidemiology. Contributing factors. The incubation period. Pathogenesis. Classification of primary syphilis. The main clinical manifestations of primary syphilis The concept of decapitated syphilis. complications/ Differential diagnosis. Classification of secondary syphilis. A variety of cutaneous manifestations. Differential diagnosis. Classification of visceral syphilis. Neurosyphilis. Cutaneous manifestations Tertiary syphilis. Classification of congenital syphilis. Classification of early congenital syphilis. Possible signs of fetal syphilis. Significant signs of fetal syphilis. Significant signs of congenital syphilis in infants. Significant signs of late congenital syphilis. The complex is the standard serological tests. Treponemal and non-treponemal tests. Modern tests. Types of treatment. Immunity in syphilis. Reinfection and superinfection
	GONORRHEA Definition, causative agent, ways of infection transmission, incubation period. Classification. Clinical manifestations. Complications of gonorrhea in men. Gonorrhea in women. Features of the course of gonorrhea in girls. Blennorea. Prevention methods. Laboratory diagnosis of gonorrhea. Methods of treatment of gonorrhea. Criteria for the cure of gonorrhea. Provocations. Prevention of gonorrhea.

DEVELOPERS:

Alexey L. Savastenko

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Olga V. Zhukova

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RUDN University

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Disaster Medicine
Course Workload	Credits and academic hours – 3 credits, 108 ac-
	ademic hours
Course	contents
Course Module Title	Brief Description of the Module Content
Module 1. The current state of development of purulent surgery in Russia and the world.	Topic 1.1. History of purulent surgery and its relationship with surgical and therapeutic specialties.
	rulent wounds.
	Topic 1.3. Features and principles of treatment of patients with wounds and surgical infections that occurred during natural and man-made disasters
	Topic 1.4. The concept of surgical treatment of a purulent focus
	Topic 1.5. Differences in the surgical treatment of a purulent focus from PST wounds in traumatology. Preoperative management of patients
	Topic 1.6. The choice of the drug for local treatment, depending on the phase of the course of the wound process. Features of local treatment of burn wounds.
Module 2. Providing first aid, emergency and emer- gency medical care at the prehospital stage. Stopping circulation. Basic cardiopulmonary resuscitation	Topic 2.1. Professional standards and qualification requirements for doctors of various specialties in terms of emergency and emergency medical care.
	Topic 2.2. Basic cardiopulmonary resuscitation and automated external defibrillation in adults. DBK algorithm with AED.
	Topic 2.3. Types of circulatory arrest (asystole, electromechanical dissociation, ventricular fibrillation, pulseless ventricular tachycardia).
	Topic 2.4. Methodology for conducting basic and advanced resuscitation by one and two providers (health workers) in adults and children.
	Topic 2.5. Methods of temporary provision of patency of the upper respiratory tract.

Module 3. R reconstructive and plastic surgery in purulent surgery. Autodermoplasty. Wound plasty	Topic 3.1. Classification of reconstructive and plastic surgeries.
with local tissues.	Topic 3.2. Autodermoplasty: types, technique, indica-
	tions for use
	Topic 3.3. Wound plasty with local tissues: types,
	technique, indications for use.
	Topic 3.4. Flap classification
	Topic 3.5. Reconstructive and plastic surgery in the
	surgical treatment of deep bedsores.
	Topic 3.6. Microsurgical transplantation of tissue
	complexes: types, technique, indications for use.
Module 4. Strong and poisonous substances.	Topic 4.1. Toxicology
	Topic 4.2. Organization of medical care for those af-
	fected by emergency hazardous chemicals (in the fo-
	cus, outside the focus of chemical damage).
	Topic 4.3. Work in a playful way in a simulation envi-
	ronment according to clinical scenarios using stand-
	ard medical equipment and improvised means for
	immobilizing and transporting victims.

DEVELOPERS:

Yu.S. Paskhalova

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HEAD OF THE EDUCATIONAL DEPARTMENT:

V.A. Mitish

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Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Emergency Conditions in Outpatient Dental Practice
Course Workload	Credits and academic hours - 2/72
Course contents	
Course Module Title	Brief Description of the Module Content
I. Organization of work of the dentist in case of emergency at the outpatient clinic	1. Definition of emergency conditions, especially dental and outpatient centres, medical history, the first aid kit for emergency with somatic complications in the dental offices.
II. First aid for emergency	1. Emergency care in hypertension.
conditions and diseases	2. Emergency care in coronary heart disease, stroke, myocardial infarction.
	3. Emergency care in faint, epiperipatus, shock, collapse.
	4. Emergency treatment of bleeding in hemorrhagic shock in case of accidental injecting corrosive liquids.
	5. Differential diagnosis of head (face) pain: neuralgia of the facial nerve, trigeminal neuralgia.
	6. Emergency aid at acute allergic diseases: urticarial, angioedema, anaphylactic shock.
	7. Emergency aid in bronchial asthma, status asthmaticus.
	8. Coma. Emergencies in diabetes. Hyperglycemic coma. Hypoglycemic coma.
III. Basics of cardiopulmonary resuscitation	1. Emergency care for airway obstruction and hypoventilation. CPR when stop breathing and blood circulation.

Developers:

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T.I. Mansur

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HEAD of Educational Department

N.V. Sturov
Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Endodotics
Course Workload	Credits and academic hours $-6/216$
Course	contents
Course Module Title	Brief Description of the Module Content
1. Etiology, pathogenesis of dental pulp	Etiology, pathogenesis, clinical picture, diagnosis,
inflammation. Classification of pulp diseases.	differential diagnosis, treatment, prevention Etiology,
	10.
2. Acute pulpitis	Acute pulpitis. Clinic, diagnostics, differential
	diagnostics, treatment.
3. Chronic pulpitis	Chronic pulpitis. Clinic, diagnostics, differential
	diagnostics, treatment.
4. Methods of treatment of pulpitis.	Methods for treating pulpitis that preserve the
	viability of the pulp: biological method, vital
	amputation. Indications and contraindications for
	conducting. Methods for the treatment of pulpitis that
	do not preserve the viability of the pulp. Vital and
	devital extirpation of the pulp. Indications.
	Endodontic instrumentation. Root canal processing
	and filling methods.
5. Etiology, pathogenesis apical periodontitis	Anatomical and physiological features of the
	periodontium. Etiology, pathogenesis of apical
	periodontitis. Classification of periodontitis ICD-10
6. Acute apical periodontitis.	Acute periodontitis. Clinic, diagnosis, differential
	diagnosis, treatment of acute periodontitis.
7. Chronic apical periodontitis	Chronic periodontitis. Clinic, diagnosis, differential
	diagnosis, treatment of acute periodontitis
8. Methods of treatment of apical periodontitis.	Means and methods of endodontic treatment.
	Complications in endodontics. Odontogenic sepsis.
	Focal diseases.
9. Conservative surgical methods in endodontics.	Conservative-surgical methods of treatment in
	endodontics: crown-radicular separation, hemisection,
	root amputation, root apex resection, tooth
	replantation.
10. Methods of treating teeth with problematic canals	Methods of treating teeth with problematic channels:
	depophoresis, apexphoresis.

11. Dental focus of infection, focal diseases.	Dental focus of infection. Focal diseases. Clinical manifestations, diagnostics and methods of patient examination.
12. Complications and errors in endodontics, bleaching of non-vital teeth.	Errors and complications in endodontics. Errors in the diagnosis of pulpitis and periodontitis. Errors and complications in the treatment of pulpitis and periodontitis. Methods for the prevention and elimination of errors and complications in endodontics. Whitening of non-vital teeth.

	Z.S. Khabadze
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	I.V. Bagdasarova
signature	name and surname
	M.K. Makeeva
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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	English Language: Basic Terminology for Medical
	Students
Course Workload	Credits and academic hours - 3/108
Course contents	
Course Module Title	Brief Description of the Module Content
Module 1. Medical terminology	Topic 1.1. Hospital departments
	Topic 1.2. Hospital staff
	Topic 1.3. Hospital equipment
	Topic 1.4. Parts of the body
	Topic 1.5. Respiratory system
	Topic 1.6. Circulatory system
	Topic 1.7. Digestive system
	Topic 1.8. First aid
	Topic 1.9. Common abbreviations
	Topic 1.10. Measurements
	Topic 1.11. Maintaining hygiene
	Topic 1.12. Health and illness. Basics
	Topic 1.13. Medical and paramedical
	personnel and places
	Topic 1.14. Medical education and training
	Topic 1.15. Systems, diseases and symptoms
	Topic 1.16. Epidemiology
	Topic 1.17. Ethics

Developers:

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Epidemiology
Course Workload	Credits and academic hours $-2/72$
Course	e contents
Course Module Title	Brief Description of the Module Content
Module 1 . General epidemiology. Epidemiological method and evidence-based medicine. Epidemiological studies.	1.1 Short history of the epidemiology development. Epidemiological method (analysis).1.2 Establishing an epidemiological diagnosis. The kinds of epidemiological research.
Module 2. Epidemic process.	2.1 L.V. Gromashevsky's role in the study about the
Epidemiological surveillance.	 epidemic process – three interconnecting elements: a source of infection, a mechanism of transmission and a susceptible organism. 2.2 Indicators of the epidemic process. Antiepidemic measures. The basis of preventive measures organization. Levels of prevention. The epidemiological surveillance as a subsystem of the social-hygienic monitoring (SHM).
Module 3. Sapronotic and highly contagious infections.	3.1 Highly contagious disease3.2 Sources, reservoirs of highly contagious diseases
Module 4. Disinfection, sterilization.	 4.1 The definition of disinfection. Types of disinfection: prophylactic and nidal (current and final). 4.2 Control of respiratory infections, enteric infections and highly contagious diseasess. 4.3 Sterilization cleaning of medical instrument 4.4 Insect control 4.5 Rodent control
Module 5. Immunoprophylaxis of infectious disease	 s.5.1 Definition of immunoprophylaxis. Theoretical basis of immunoprevention. 5.2 The schedules for immunoprophylaxis . Active and passive immunoprophylaxis. Post-exposure immunoprophylaxis.
Module 6. Infectious disease epidemiology.	6.1 The content of this section is defined by the actual
Epidemiology of socially significant infections.	 epidemic situation and calendar plan of study course of infectious diseases. 6.2 Epidemiological characteristics of deadly infectious diseases. Organization of antiepidemic and

	preventive measures.
Module 7. Epidemiology and prophylaxis of nosocomial infections.	 7.1 Definition of nosocomial infections. Epidemiological, economic significance of hospital infections. 7.2 Common pathogens of nosocomial infections and their sources. Prevention of nosocomial diseases in medical staff. Post-exposure prevention of HIV, hepatitis viruses (B, C, D). 7.3 Exogenous and endogenous infections
Module 8. Epidemiology of emergency situations.	 8.1 Definition of the "emergency situation". 8.2 Classification of catastrophes. Basic principles of medical aid and epidemic control organization in the area affected by an emergency.

 S.L. Voznesenskiy

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 K. C. Emerole

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course title	Forensic Medicine	
Course workload	Credits and academic hours $-2/72$	
Course	contents	
Course Module Title	Brief description of the Module Content	
Module 1	Particular module - Definition of forensic	
Procedural and institutional issues of forensic medical	medicine. Forensic medicine and forensic medical	
examination. Forensic thanatology (general and	examination. The prominent scientists in forensic	
particular aspects)	medicine in Russia and abroad, their contribution to the	
	development of theory and practice of forensics. The	
	structure of the forensic medicine in Russia.	
	Particular module - The rights and responsibilities	
	of a forensic expert. Types of forensic expertises.	
	Objects of forensic medical examination. Forensic	
	medical examination at the preliminary investigation and	
	in court. Forensic documentation.	
	Particular module - The definition of death.	
	Terminal conditions. The definition of clinical and	
	biological death. Diagnostics of death. Establishing of	
	the time of death. Early cadaveric changes. Late	
	cadaveric changes. Natural conservation of a cadaver.	
	Artificial embalming of a cadaver. The destruction of a	
	destruction of a andewar. Matheda of body restoration	
	Economic significance of cadaveric changes. The	
	definition of cause of death Competitive causes of	
	death Category of death genus of death: violent death:	
	murder suicide accident	
	Particular module - General issues of the cadaver	
	examination on the accident scene (examination order.	
	organization, stages and kinds of the examination of the	
	accident scene). The task of forensic medical expert and	
	the order of a cadaver examination on the accident	
	scene. Procedural documentation of accident scene. The	
	features of a cadaver examination in different kinds of	
	death. The features of an unknown person examination.	
	The features of examination of large-scale catastrophe	
	scene.	
Module 2.	Particular module - The reasons for forensic	
Forensic medical examination (the examination of a	medical examination of a cadaver. The documentation of	
cadaver). Forensic diagnostics in cases of sudden death	forensic medical examination. Principles of construction	
	of a forensic medical diagnosis and conclusions based	
	on forensic medical examination of a cadaver. The	
	design of a death certificate.	
	Particular module – Forensic medical examination	

	in case of sudden death.
Module 3	Particular module – General forensic traumatology.
General issues of forensic medical examination of	The main issues to be solved by forensic medical expert
mechanical damage (thanatogenesis of death due to	in case of mechanical damage.
different mechanical impacts). Injuries caused by blunt	Particular module – Injuries caused by blunt solid
solid objects. Falling from height. Traffic accidents.	objects.
Peculiar properties of maxillofacial region damages due	Particular module – Transport trauma. The
to different traumatic impacts.	mechanism of injury and morphological signs of injuries
	caused by cars and other wehicles.
Module 4.	Particular module - Forensic examination of the
Laboratory methods in forensic medicine. Forensic	evidences of biological origin (blood, sperm, saliva,
medical identification	hair).
	Particular module – Estimating the sex and age of a
	victim by teeth
Module 5.	Particular module – The mechanism of injury and
Forensic medical examination in case of damages by	morphological signs of injuries caused by sharp objects
sharp objects. Gunshot wounds	and firearms. Peculiar properties of maxillofacial region
M 11 7	damages due to different traumatic impacts.
Module 6.	Particular module – Forensic medical examination of
Forensic medical examination of fiving persons.	hould demond (accurate madium light). We so to accurate
Forensic medical examination of the gravity of the	demoge to health (heating tormont torture). The
Economic medical examination of animinal and sixil asses	damage to heatin (deating, torment, torture). The
of medical practitioners' professional violations	Economic documentation Commission and complex
of medical practitioners professional violations.	forensic examinations
	Particular module – Forensic medical examination of
	physical evidence of biological origin (blood semen
	saliva, hair). Methods of identification, removal and
	packaging of traces and physical evidence of biological
	origin.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	General Surgery
Course Workload	Credits and academic hours - 4 credits (144 academic
	hours)
C	ourse contents
Course Module Title	Brief Description of the Module Content
1.General surgery issues	Bleeding, blood loss.
	Blood products and components
	Blood transfusion complications.
	Asepsis. Asepsis. Antisepsis. Bleeding.
	Hemotransfusion. Preoperative and postoperative
	periods. Operation. Wounds.
	Burns. Burn disease. Frostbites.
	Necrosis. Ulcers. Fistulas.
	Plastic surgery.
	Principles of surgical oncology.
	Local anesthesia. Novocaine blocks.
	Special diagnostic methods in surgery.
2.Particular issues of surgery	Local and General reaction of the body to infection
	Surgical sepsis.
	Principles of treatment of purulent infection
	budradanitia anyoinalaa abaaasa nblaaman)
	A sute inflammation of lymphotic and venous vessels
	Acute inflationation of Tymphatic and venous vessels
	(lymphanglus, lymphademus, acute
	Dumilant inflormation of paratid alanda and broast
	(acute perotitis, acute mastitis)
	A cute parotitis, acute mastitis).
	Purulant disasses of fingers and hand
	Osteomyelitis
	Chest purplent infection (plaural empyame)
	Deritonitic
	Anaerobic infection (clostridial and non-clostridial
	infection tetanus)
	Closed soft-tissue injuries
	Fractures and dislocations

Closed craniocerebral injury (concussion, contusion,
brain compression).
Chest trauma (pneumothorax, hemothorax).
Abdominal trauma.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Gerodontics and Oral Mucosa Diseases	
Course Workload	Credits and academic hours $-6/216$	
Course contents		
Course Module Title	Brief Description of the Module Content	
Examination of the patient with diseases of the oral mucosa.	The structure of the oral mucosa. Elements of the defeat of the oral mucosa.	
Differential diagnosis. Preparation of a survey plan and a comprehensive treatment plan.	Classification of diseases of the oral mucosa.	
Traumatic lesions of the oral mucosa. Leukoplakia.	Damage due to mechanical, chemical and physical effects. Clinic, diagnosis, treatment. Manifestation of leukoplakia in the oral cavity. Etiology, pathogenesis, diagnosis, treatment	
Infectious diseases of the oral mucosa. Allergic diseases of	Herpes zoster. Etiology, pathogenesis, diagnosis, treatment	
the oral mucosa. Changes in the oral mucosa in	Quincke Edema. Drug allergy. Erythema multiforme	
dermatoses.	exudative. Aphthous stomatitis. Etiology, pathogenesis,	
	diagnosis, treatment. Oral lichen planus, pemphigus	
	vulgaris, lupus erythematosus. Classification, clinic,	
	diagnosis and treatment.	
Diseases of the tongue.	Anomalies and diseases of the tongue; folded, diamond- shaped tongue. Glossalgia. Somalia.	
	Exfoliative, allergic, glandular, eczematous cheilitis.	
Diseases of lips.	Etiology, pathogenesis, clinic, diagnosis, treatment.	
Precancerous diseases of the red border of the lips and oral	Classification. Clinical picture, diagnosis, treatment,	
mucosa. The condition of the oral cavity in elderly people.	prevention. The condition of hard tissues of teeth,	
Features of treatment methods. Prevention of diseases of	periodontal and oral mucosa in the elderly is normal and	
the oral mucosa.	pathological. Features of dental examination and treatment	
	of the elderly	

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Gnathology and Temporo-Mandibular Joint's
	Functional Diagnostics
Course Workload	Credits and academic hours $-2/72$
Course	contents
Course Module Title	Brief Description of the Module Content
1 Basics of clinical	Basics of Clinical Gnathology.
Gnathology	Morphofunctional elements of the
(biomechanics of the dental system.	temporomandibular joint. Biomechanics of the
Functional analysis of the dental system.	masticatory system. Articulators and occluders,
	facebow. Methods for installing models into the
	articulator and adjusting it to an individual
	patient function. Techniques of determining and
	registering a central occlusion and the central
	ratio of the
	jaws. Methods of recording angle of the
	transversal articular path
	("Gothic angle"). Computer methods of
	axiography and
	functionography. Costen's syndrome. Methods
	for determining and recording the height of the
	lower part of the face. Basics of occlusive
	diagnosis. "Occlusion Factors". Clinical,
	laboratory and hardware methods for diagnosing
	occlusal relationships of the dentitions.
2 The functional status and diagnosis of dentition	The functional state of the dentofacial systems
with defects of teeth and dentition, periodontal	in case of pathology of hard dental tissues.
disease.	Methods for determining the speech function.
	The functional state of the dentofacial systems
	in the partial absence of teeth. Methods of
	determining chewing function. The functional
	state of the dentofacial systems in periodontal

	diseases. Methods for determining the
	functional state of periodontal
	(Periotestometry).
3 Diagnosis and orthopedic treatment of patients with pathology of the temporomandibular joint and masticatory muscles	Etiology, pathogenesis, classification, clinical manifestations of diseases of the temporomandibular joint and masticatory muscles. Modern diagnostic methods. Clinical, laboratory and hardware methods for diagnosing occlusion of interconnections of dentitions. Differential diagnosis.
4 Diagnosis and orthopedic treatment of patients with pathology of the temporomandibular joint and masticatory muscles	The basic principles of complex treatment of patients with diseases of the temporomandibular joint and masticatory muscles. Therapeutic and diagnostic devices. Types of occlusal tires. Stage complex treatment. Tactics of management of patients with pathology of occlusion, TMJ, masticatory muscles.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Head and neck diseases
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
Module 1	Classification of tumors. Odontogenic and
Benign tumors	Neodontogenic jaw tumors. Osteogenic and Non-
	osteogenic jaw tumors.
	1.2 Jaw cysts. Tumor-like jaw formations.
	Congenital cysts and fistulas of the face and neck.
	Benign tumors of the soft tissues of the
	maxillofacial region.
Module 2	2.1 Carcinogenesis theories.
Malignant tumors	Oncostomatologicalcare organization.
	Dispensary groups. Patient examination
	metods. Facial and oral cavity precancer
	classification. Optional precancer and background
	diseases.
	2.2 Facial and oral cavityy obligate precancer. Precancer
	diseases treatment principles
	2.3 Facial skin and lip cancer. Oral mucosa and
	tongue cancer.
	2.4 Cancer of the upper and lower jaws. Sarcoms.
	2.5 Benign and malignant tumors salivary glands
	tumors. Malignant treatmant principles.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / specialty code and title

Course title	Immunology, clinical immunology
Course workload*	Credits and academic hours - 4 credits (144
	hours)
C	ourse contents
Course Module Title	Brief Description of the Module Content
Basic immunology	The subject and tasks of immunology. The definition of immunity. Theories of immunity. Historical milestones in the development of immunology. The structure and function of the immune system. Ontogenesis and Phylogeny. Central and secondary immune organs. Types of immunity. Immunopoiesis. Stem cell. Innate immunity. Receptors of recognition "non-self". Cells of the innate immunity. Phagocytosis. Adhesion molecule. NK-cells. Humoral factors of the innate immunity. Complement system. Antigens and antibodies. The structure and main properties of antigens. The structure and main properties of antibodies. Classification of antigens. Immunoglobulin classes. Interaction between antigen and antibody. Major histocompatibility complex (MHC). HLA I and II. Antigen-presenting cells. Processing and presentation of antigen. Apoptosis. T- и B-lymphocytes. Subpopulations. Maturation

	and differentiation. TCR and BCR. Immune
	response. Types of immune response. Effector
	mechanism of immunity. Mucosal immunity.
	Humoral factors of immune reactions
	Classification and properties of cytokines.
	Receptors to cytokines.
	Immune diseases. Classification of
Clinical immunology	immunopathological reactions according to Gell
	and Coombs. Allergy. Allergens. Types of
	hypersensitivity reactions. The main principles of
	diagnosis and treatment allergic diseases. Clinical
	manifestations of allergy in oral cavity. Immune
	tolerance. Transplantation immunity.
	Autoimmune disease. Clinical manifestations of
	autoimmune diseases in oral cavity. Primary and
	secondary immunodefiencies. Classification.
	Diagnosis and treatment. Infection immunity.
	Infections of oral cavity. Antitumor immunity.
	Effectors mechanisms of antitumor immunity.
	Immunoproliferative diseases. Principles of
	immunodiagnostics and immunotherapy of
	tumors. Estimation methods of immunity.
	Immune biotechnology. Monoclonal antibodies.
	The main principles of immunotherapy and
	vaccination.

DEVELOPERS:

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Implantology and Reconstructive Surgery
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
Module 1	1.1 Surgical treatment for anomalies and
Anomalies and defects of maxillofacial region	defects of theupper and lower jaws. Operative
	intervention.
Module 2	2.1 Surgical preparation of the oral cavity
Periodontology	forprosthetics (bone grafting).
	2.2 Operations on the soft tissues of the
	oral cavity.
	2.3 Surgical methods in the complex
	treatment ofperiodontal diseases
Module 3	3.1 Dental and maxillofacial implantation.
Dental and maxillofacial	
implantation	3.2 Types of implantation. Indications,
	contraindications, diagnostics, preparation
	for surgery, methods of surgery.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Infectious Diseases, Phthisiology
Course Workload	Credits and academic hours $-3/108$
Course contents	
Course Module Title	Brief Description of the Module Content
Module 1 Introduction to the course	1.1. Modern state of the problem of infectious diseases. Properties of the causative agents of infectious diseases. Modern methods of laboratory diagnostics of infectious diseases. Principles of
	treatment of infectious diseases. Tactics of a dentist if infectious disease is suspected in patient.1.2. Professional approach of a dentist if infectious disease is suspected in patient.
Module 2 Bacterial infections	2.1. Diphteria and infectious mononucleosis 2.2. Sepsis. Pathogenesis basis of prevention, diagnosis and treatment. Odontogenic sepsis
	causes, prevention, diagnosis and treatment
	manifestations, diagnosis, treatment.
	 2.4. Streptococcal infection: acute tonsillitis (angina), erysipelas of face, scarlet fever. Epidemiology. Pathogenesis. Clinic. Laboratory diagnosis. Complications. Principles of treatment 2.5. Tetanus. Etiology. Epidemiology. Pathogenesis. Clinical manifestations. Laboratory diagnosis. Treatment. Prevention
	2.6. Etiology and pathogenesis of tuberculosis. Methods of diagnosis of tuberculosis. Clinical manifestations of tuberculosis
Module 3 Viral infections	3.1 Influenza, adenovirus infection and other acute viral respiratory disease.3.2 Herpes viruses.3.3 Mumps viruses
	3.4 HIV infection3.5 Viral hepatitis3.6 Measles and rubella viruses

Module 4 Etiopathogenesis. Etiology of tuberculosis.	4.1The content and objectives of the science of phthisiology, its relationship with other medical disciplines.
	4.2 Topic 4.2 Epidemiology situation of tuberculosis around the globe
Module 5 Diagnosis, management, and treatment of	5.1 Diagnosis of the tuberculosis process.
tuberculosis	5.2 Treatment of tuberculosis. The mode and nutrition of a patient with tuberculosis.Management of critical cases in TB practice
Module 6 Tuberculosis in dentist practice.	6.1Tuberculosis of the skin of the face: classification, clinical manifestations, diagnosis, treatment.
	6.2 Tuberculosis of peripheral lymph nodes: classification, clinical manifestations, diagnosis, treatment.
	6.3 Tuberculosis of the larynx: classification, clinical manifestations, diagnosis, treatment
	6.4 Tuberculosis of the oral cavity, tongue: clinical manifestations, diagnosis, treatment
	6.5 Topic 6.5 Tuberculosis of the bones of the skull, face: clinical and radiological manifestations, diagnosis, treatment
Module 7 Prevention aspects of tuberculosis	7.1 Immunoprophylaxis of tuberculosis (vaccination and revaccination of BCG/BCG-M): indications, contraindications, technique, complications; characteristics of post-vaccination immunity
	7.2 Chemoprophylaxis of tuberculosis (treatment of latent tuberculosis infection): indications, timing, regimens of chemoprophylaxis.
	7.3 TB healthcare: goals, objectives, structure, functional aspects

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Innovative Technologies in Dentistry
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
1 Noninvasive technologies in the treatment	Method of chemical-mechanical removal of carious
	lesions. Carisolv system. Dental preparation Saforaid
	for the treatment of dental caries. Air-abrasive and
	water-abrasive methods of treatment of dental
	diseases. The method of treatment of dental caries -
	ozone therapy. Remotherapy. Deep fluoridation of
	hard tooth tissues
2 The infiltration method	The infiltration method-ICON.
3 Minimally invasive technologies	Principles of minimal invasive techniques.
	Diagnostic fissure preparation. fissurotomia Tunnel
	preparation. Ultrasonic preparation of dental hard
	tissues. Laser preparation of hard tooth tissues.
4 A.R.T. method of treatment of teeth	Indications and contraindications for the use of
	A.R.T. techniques. Hand tools used for minimally
	invasive tooth treatment techniques. Filling materials:
	glass ionomer cements, compomers, flowable
	composites. Errors and complications when using
	minimally invasive techniques

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Internal Medicine
Course Workload	Credits and academic hours $-7/252$
Course contents	
Course Module Title	Brief Description of the Module Content
Module 1 Methods of physical examination of the	General condition, consciousness, position, build,
patient	assessment of the skin and mucous membranes, lymph nodes, muscular system, joints (4 hours).
Module 2 Case history. Questioning the patient.	Case history writing scheme (4 hours).
General examination of the patient.	
Module 3 Methods for the study of respiratory organs	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Basics of private pathology (pneumonia, COPD, bronchial asthma) (4 hours).
Module 4 Methods of study of the circulatory system	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Fundamentals of private pathology (AH, CHD, NC, Atherosclerosis, rheumatism, defects) (32 hours).
Module 5 Methods of study of the digestive system	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Fundamentals of private pathology (gastritis, ulcers, bowel disease) (8 hours).
Module 6 Methods for the study of the liver and biliary tract	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Fundamentals of private pathology (hepatitis, cirrhosis, cholecystitis, JCB) (8 hours).
Module 7 Methods of examination of the kidneys and urinary tract	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. The basics of private pathology (pyelonephritis, glomerulonephritis, chronic renal failure, acute kidney injury) (8 hours).
Module 8 Methods for examining the blood-forming organs	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research

	methods. The main clinical syndromes. Basics of private
	pathology (anemia, leukemia) (17 hours).
Module 9 Endocrine Research Methods	The main complaints. Physical research methods (examination, palpation, percussion, auscultation). Instrumental research methods, laboratory research methods. The main clinical syndromes. Fundamentals of private pathology (thyroid disease, diabetes) (6 hours).
Module 10 Respiratory diseases	Etiology, pathogenesis, features of clinical manifestations and complications of lung diseases; principles of treatment of pulmonary pathology (pneumonia, COPD, bronchial asthma, lung cancer, tuberculosis)
Module 11 Diseases of the circulatory system	Etiology, pathogenesis, peculiarities of clinical manifestations and complications of heart and vascular diseases; principles of treatment of cardiac pathology (rheumatism, heart defects, infective endocarditis, ischemic heart disease, ox, cardiomyopathy, arterial hypertension, cardiac arrhythmias, heart failure, ECG, echocardiography)
Module 12 Kidney disease	Etiology, pathogenesis, features of clinical manifestations and complications of lung diseases; principles of treatment of renal pathology (glomerulonephritis, amyloidosis, pyelonephritis, acute and chronic renal failure, hemodialysis, kidney transplantation)
Module 13 Diseases of the endocrine system	Etiology, pathogenesis, peculiarities of clinical manifestations and complications of thyroid diseases, diabetes mellitus; principles of treatment.
Module 14 Diseases of the gastrointestinal tract and liver	Etiology, pathogenesis, features of clinical manifestations and complications of diseases of the gastrointestinal tract and liver; principles of treatment (peptic ulcer, diseases of the small and large intestines, acute and chronic hepatitis, cirrhosis of the liver)
Module 15 Diseases of the blood	Etiology, pathogenesis, peculiarities of clinical manifestations and complications of blood diseases; principles of treatment (anemia, acute and chronic leukemia)
Module 16 Diseases of the joints	Etiology, pathogenesis, clinical picture, diagnosis, complications, treatment (gout, osteoarthritis deformans, rheumatoid arthritis, ankylosing spondylitis, reactive and paraneoplastic arthritis)

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Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Introduction to the specialty
Course Workload	Credits and academic hours $-2/72$
Course	contents
Course Module Title	Brief Description of the Module Content
MODULE 1. Introduction to Dentistry.	Topic 1.1. Introduction to the specialty of
Structure dentistry.	dentistry. History of the development of dentistry.
	Topic 1.2. Structure of dentistry. Ethics and deontology in dentistry.
MODULE 2. Ergonomics of dental clinic.	Topic 2.1. Organization and equipment of the
Organization, equipment and equipping of the	dental clinic, departments, offices, functions, staff Provision of dental medical care, levels,
dental clinic.	standards.
	Topic 2.2. Types of dental institutions by type of ownership. Insurance in dentistry. Medical records.
	Topic 2.3. Safety rules when working in
	dentistry. Personal protective equipment at the dental appointment. Radiology. Rules for
	working with dental equipment.
	Topic 2.4. First aid to victims in case of safety
	violation. Industrial injury. The sequence of actions in case of industrial injury. First aid kit
	anti-AIDS. Tonio 2.5. Equipment, Proceedures and
	standards of equipment of premises. Dental
	Topic 2.6 Dental units types of handnieces
	bur. Equipment maintenance. Ergonomics of
	Topic 2.7 Dental instruments: the main set
	Tools for conservative dentistry. Tools for
	restorations. Structure of tools, purpose, rules
	of use.
	Topic 2.8. Tools for conservative dentistry.
	Structure of tools, purpose, rules of use. Burs.
	Topic 2.9. Periodontal instruments.
	Instruments for surgical dentistry. Structure of

	tools, purpose, rules of use.
	Topic 2.10. Instruments for prosthetic
	dentistry. Structure of tools, purpose, rules of
	use.
MODULE 3 Disinfection and sterilization in	Topic 3.1. Disinfection and sterilization in
WODOLE 5. Disinfection and stermization in	dentistry.
dentistry.	Topic 3.2. Types of disinfection
	Topic 3.3. Sterilization. Classification of tools
	depending on the type of processing.
	Topic 3.4. Types of waste.
	Topic 3.5. Final colloquium.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Latin Language
Course Workload	Credits and academic hours - 2 credits / 72 hours
Co	ourse contents
Course Module Title	Brief Description of the Module Content
Anatomical and histological terminology	T. 1 Latin Alphabet. Diphthongs and digraphs.
	Reading and word stress rules.
	T.2 The system of Latin nominal declension. The rule
	for determining the declension of nouns. Dictionary
	form of nouns.
	T.3 Nouns of the first declension. Non-agreed
	attributes. The structure of phrases consisting of
	nouns.
	T.4 Nouns of the second declensions.
	T.5 The first and second declension of adjectives.
	Dictionary form of adjectives. Agreed attributes. The
	structure of phrases consisting of nouns and
	adjectives.
	T.6 Degrees of comparison of adjectives. Features of
	their use in medical terminology.
	T.7 Prefixation.
	T.8 Nouns of the third declensions. Types of the third
	of declension: consonant, mixed and vowel.
	[1.9 Nouns of the fourth declensions.
	1.10 Nouns of the fifth declension.
Pharmaceutical terminology	.1. Frequency segments in the names of medicines.
	T.2 Recipe Structure. T. 3. Basics of chemical
	terminology.
Clinical terminology	T.1 Prefixation and suffixation as ways of word
	formation in Latin.
	T.2 Introduction to Clinical Terminology.
	Classification of clinical terms.
	T.3 Basics. Greco-Latin doublets. Single term
	elements.
	T.4 Greek TE, denoting body parts, organs, and
	tissues.
	T.5 Greek TEs for Therapeutic and Surgical
	Techniques

T.6 Greek TE, denoting functional and pathological
processes, states.
T.7 Greek TE, denoting various physical properties
and qualities.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Local Anesthesia and Anesthesiology in
	Dentistry
Course Workload	Credits and academic hours $-2/72$
Course	contents
Course Module Title	Brief Description of the Module Content
Module 1 Organizing asurgical ward	1.1 Organization of the surgical department (office) of a
	dentalpolyclinic. Asepsis and antiseptics in facial and
	oral surgery. Prevention of AIDS and B - hepatitis.
	1.2 Examination of the surgical dental patient.
	Deontology and medical ethics.
Module 2 Anesthesia indentalsurgery	2.1 General anesthesia. Indications and characteristics
	of general anesthesia for facial and oral surgery.
	Premedication.
	2.2 Selection of anesthesia and preparation of the patient
	for intervention in co-morbidities and the elderly.
	Complicationsofanaesthesia. Basics of resuscitation.
	2.3 Local anesthetics and drugs used for local
	anesthesia.Typesof local anesthetics.
	2.4 Anesthesia in upper jaw surgery.
	2.5 Anesthesia in mandibular surgery.
	2.6 Local and general complications of local anesthesia.
Module 3	3.1 Features of facial and oral surgery. Techniques for
Tooth and root extraction surgery	removalof teeth and roots on the upper jaw. Instruments.
	3.2 Methods for removing teeth and roots on the lower
	jaw.Instruments.
	3.3 Techniques for complex tooth and root extraction.
	3.4 Complications during tooth extraction.
	3.5 Complications following tooth extraction.
	3.6 Features of tooth extraction in persons with co-
	morbidities.

Developers:

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Mathematics	
Course Workload	Credits and academic hours $-2/72$	
Course contents		
Course Module Title	Brief Description of the Module Content	
Introduction.	1. Mathematics as a method for studying	
	biological systems.	
	Repetition of the basic information from the high	
	school math course.	
Linear algebra.	1. Cartesian coordinate system. Solution of a	
	system of two linear equations (SLE) by	
analytical and graphical methods.	analytical and graphical methods.	
	2. Vectors and matrices. Solution of SLE by	
	the Gauss–Jordan method.	
	3. Linear dependence of equations. General	
	and particular solutions of SLE.	
	4. Multiplication of vectors and matrices.	
	Determinant and eigenvalues of a matrix.	
Differential calculus.	1. Functions and graphs.	
2. Ana Fou	2. Fundamentals of Differential Calculus.	
	Analysis of graphs using derivatives.	
	Foundations of Integral Calculus. Separable	
	orumary unrerentiar equations.	

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Maxillofacial and Orthognathic Surgery
Course Workload	Credits and academic hours $-6/216$
Course	contents
Course Module Title	Brief Description of the Module Content
Module 1 Infectious inflammator ydiseases of	1.1 Actinomycosis of the maxillofacial region. Tuberculosis,
the maxillofacial	syphilis of the maxillofacial region.
region	1.2 Boils, facial carbuncles. Rust infection
Module 2	2.1 Anatomy of
Diseases and	salivaryglands.Reactive-
injuries of thesalivary glands	dystrophic changes
	(sialosis).
	2.2 Inflammatory diseases of the salivary glands.
	Salivary gland disease. Damage to the salivary glands.
Module 3 Traumatic injuries of the maxillofacial	3.1 Statistics and classification of injuries of
region.	themaxillofacial region. Classification.
	Damage to the soft tissues of the face.
	3.2 Non-gunshot injuries of the facial skull bones and
	teeth. Dislocations and fractures of teeth. Fractures of
	the alveolar process.
	Fractures of the upper and lower jaw
	3.3 Methods of immobilization in jaw fractures.
	Generalmethods of treatment and care of patients with jaw
	fractures.
	3.4 Fractures of the zygomatic bone and arch.
	Fractures of the nasal bones.
Module 4	4.1 Neuritis and trigeminal neural gia
Diseases of thetrigeminal and facial nerves	4.2 Lingual Pharyngeal Nerve Neuralgia
	4.3 Facial Nerve Damage
Module 5 Diseases of the temporomandibular joint	5.1 Inflammatory diseases of the temporomandibular
	joint
	5.2 Dystrophic diseases of the temporomandibularjoint
	5.3 Temporomandibular joint ankylosis
	Lower jaw contracture
	5.4 Internal Disorders of the Temporomandibular Joint
Module 6 Military fieldsurgery	6.1 Organization of military maxillofacial surgery.
	recultarities of gunshot wounds. Firearm injuries of soft tissues of the face PCS of wounds
	6.2 Gunshot injuries of facial hones. Combined
	injuries of the maxillofacial region
	6.3 Facial burns (thermal, electric burns,
	chemicalburns, frostbites).

	Combined radiation lesions of the face and oral
	tissues.
	6.4 Complications of gunshot and radial
	injuries.Methods of treatment of victims in
	emergency
	conditions.
Module 7 Restorative surgeryof themaxillofacial region	7.1 Goals and objectives of reconstructive
	surgery.Planning of reconstructive surgery.
	Plastics with local tissues.
	7.2 Plastics with stem flaps. Plastics with Filatov's
	stem flap
	7.3 Free tissue grafting.
	Surgical treatment of jaw deformities.

V.D. Trufanov

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Maxillofacial prosthodontics
Course Workload	Credits and academic hours $-2/72$
Course	contents
Course Module Title	Brief Description of the Module Content
1. Maxillofacial prosthetics. Diagnostic measures	General considerations about facial and
and principles. Capturing of facial defects.	maxillofacial prosthetics. Classification of facial defects and consequent functional disorders.
Impression taking techniques	Prosthetic stage as a part of complex rehabilitation process of patients with facial disfigurements. Types of facial prostheses, retention methods. Materials for facial prostheses manufacturing. Endosseous implant supported prostheses: treatment planning. Conventional and digital workflows of facial prostheses manufacturing. Modern imaging systems for the virtual capturing of facial defects. Working cast fabrication for auricular, nasal and orbital
2 Eacial prosthetics	Detailed characteristics of clinical and laboratory
Technical approaches and methods of facial	steps for facial prostheses manufacturing. Conventional workflow for auricular, nasal and
digital workflows	orbital prostheses. Digital workflow for facial prostheses manufacturing. Computer aided design and manufacturing (CAD/CAM) in maxillofacial prosthetics. Modern software solutions for CAD. General terms and consideration about 3D printing in medicine, dentistry and maxillofacial prosthetics. Maintenance of adequate hygiene level and aftercare for facial prostheses. Recall periods. Complication in facial prosthetics.
3. Maxillofacial prosthetics.	Rehabilitation and management of maxillectomy
Prosthodontic stage as a part of complex rehabilitation process of facial tumors patients.	patients. Preprosthetical surgical enhancement. Detailed characteristics of clinical and laboratory steps for obturator prostheses manufacturing. Phases of prosthetic restoration. Clinical management and prosthetic restoration of
	edentulous and dentate maxillectomy patients.

4. Maxillofacial prosthetics. Prosthetics	Prosthetics rehabilitation of patients soft and hard palate defects. Types of appropriate prosthetic
rehabilitation of patients with congenital palatal malformations and acquired defects.	appliances and their manufacturing workflow. Facial and bite guards as a prophylactic aid of facial bone fractures. General characteristics and manufacturing approaches.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Medical Elementology	
Course Workload	Credits and academic hours - 3/108	
Course contents		
Course Module Title	Brief Description of the Module Content	
Introduction to Medical Elementology	1. Subject of medical elementology. Biological classification of chemical elements. Concept of bioelements.	
	 Biogeochemistry and factors affecting the elemental status of population. New paradian of putritian and thereas 	
	3. New paradigm of nutrition and therapy.	
General Elementology	4. Factors affecting the homeostasis of microelements. Interaction between microelements	
	5. Elemental status of a person. Personalized assessment of human elemental status.	
Particular Elementology	6. Elements-organogens (carbon, oxygen, nitrogen, hydrogen): role in the body; absorption; excretion; associated diseases; sources.	
	7.Macroelements (potassium, sodium, calcium, magnesium, phosphorus, sulfur, chlorine): role in the body; absorption; excretion; deficiency and excess; toxicity; associated diseases; sources.	
	8.Essential trace elements (iron, zinc, copper, manganese, chromium, cobalt, molybdenum, selenium, iodine): role in the body; absorption; excretion; deficiency and toxicity; associated diseases; sources.	
	9. Conditionally essential trace elements (lithium, strontium, vanadium, nickel, tin, silicon, fluorine): role in the body; absorption; excretion; deficiency and toxicity; associated	

	diseases; sources. 10. Toxic and potentially toxic trace elements (arsenic, aluminum, lead, cadmium, mercury): role in the body; absorption; excretion; toxicity; associated diseases; sources.
The role of chemical elements in dentistry	 Imbalances of chemical elements for various diseases of the oral cavity: caries, pulpitis, periodontitis, gingivitis, periodontitis, periodontitis.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Medical Genetics in Dentistry	
Course Workload	Credits and academic hours – 3/108	
Course contents		
Course Module Title	Brief Description of the Module Content	
Heredity and Pathology.	Medical genetics in the structure of the biomedical sciences about	
	man. Heredity and health. Mutations as the etiological factor of	
	and pathogeneois Heredity and alinical picture Heredity and	
	disease outcomes	
Semiotics of hereditary	General and private semiotics of hereditary pathology	
pathology and principles of	Morphogenetic variants of development and their importance in the	
clinical diagnostics	diagnosis of hereditary pathology. Anthropometry. Congenital	
	malformations. Family approach in the diagnosis of hereditary	
	pathology. Clinical and genealogical method for the diagnosis of	
	hereditary diseases. Clinical features of the manifestation of	
	hereditary diseases. Graphic image of the pedigree. Pedigree	
	analysis. Genealogical analysis for monogenic diseases.	
	depending on the type of possible hereditary pathology	
Chromosome abnormality	Classification of chromosomal diseases. Frequency, pathogenesis	
	and clinical features of chromosomal diseases. Clinical	
	characteristics of some chromosomal syndromes (trisomy	
	syndromes, partial aneuploidy syndromes). Diseases with an	
	unconventional type of inheritance. Diagnostic methods for	
	chromosomal diseases. Treatment of chromosomal diseases	
Monogenic disorders	Classification of monogenic diseases. Genetic heterogeneity and	
	laboratory diagnosis of monogenic pathology (biochemical	
	methods molecular genetic methods)	
Multifactorial disorders	The most common nosological forms. General and private	
	mechanisms for the implementation of hereditary predisposition.	
	Factors and principles for identifying individuals at increased risk	
	of developing diseases with a hereditary predisposition. Ecogenetic	

	diseases
Congenital malformations of the	General characteristics of the structure of the teeth. Genetic control
maxillofacial area	of the normal development and formation of dental tissue. Genetic
	factors in the formation of tooth anomalies. Classification of
	anomalies of the development of teeth and the dentofacial region.
	Anomalies of the size and shape of teeth (macrodentia, microdentia,
	merged teeth, doubling, teeth invagination, abnormal tubercles and
	enamel pearls, taurodenism). Hereditary diseases and syndromes
	with anomalies of the size and shape of teeth. Anomalies of the
	number of teeth (teeth angenesis, complementary teeth). Hereditary
	disorders of the formation of the structure of teeth. Anomalies
	teething. Hereditary anomalies of malocclusion. Problems of
	genetic counseling and treatment of hereditary diseases in dentistry
Congenital and hereditary dental	Cleft lip and palate. The most common monogenic cleft lip and
abnormality	palate syndromes. Atypical crevices of the craniofacial region.
	Principles of treatment and renabilitation of patients with congenital
	congenital crefacial clefts. Principles of prophylaxis of crefacial
	clefts
Dental disease multifactorial	Multifactorial defects of the craniofacial region and the dental-
nature	maxillary apparatus, syndromic forms Common dental diseases of
	multifactorial nature (genetic aspects of caries, genetic aspects of
	periodontal diseases)
Prevention of congenital and	Medical genetic counseling. Methods of prenatal diagnosis of
hereditary dental abnormality	hereditary diseases. Methods for the detection of chromosomal
	abnormalities and monogenic diseases. Problems of genetic
	counseling and treatment of hereditary diseases in dentistry.

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Medical Insformatics	
Course Workload	Credits and academic hours - 3/108	
Course contents		
Course Module Title	Brief Description of the Module Content	
INTRODUCTION TO MEDICAL	Basic concepts of medical informatics.	
INFORMATICS	Concept of information, presentation of information in a	
	computer.	
	General characteristics of the collection, transmission,	
	processing and accumulation of information. Methods and	
	means of informatization in medicine and health care.	
	Medical Informatics Hardware.	
	The concept of information, representation information in	
	the computer. Computer architecture, main units of IBM PC	
	(system unit, keyboard, monitor), principle of open	
	architecture. Input devices (keyboard, mouse, scanner,	
	plotter)	
	Pandom access memory Permanent storage device External	
	storage devices	
	Software tools for the implementation of information	
	nrocesses.	
	Section contents: Types of software (system software.	
	applications, programming systems). file archiver (Zip. Ari.	
	Rar), virus protection programs. The concept of "operating	
	system" types of operating systems interface (command	
	graphic) Family of operating systems DOS Solaris Linux	
	Mac OS. Organization of the file system: files, directories	
	(folders), the types of files and folders, current directory.	
	path to the file, names of the devices, the full file name.	
	Logical and physical discs.	
TECHNOLOGY FOR	Introduction to word processors Microsoft Word, Open	
PROCESSING MEDICAL DATA	Office Writer.	
USING WORD PROCESSOR	Structure of the Program Writer, basic control elements: title	
	bar, menu bar, toolbar, control line, status bar, scroll bar,	
	document window, indicators (input cursor, mouse).	

	Creation, saving and closing the document, work with windows search a saved document. Menu structure (File, Edit, View, Insert, Format, Tools, Table, Window). Entering text. Symbols formatting (changing the tracing, font type and size), paragraph formatting (set line spacing, paragraph alignment), tabulation, preview. Complex document formatting, special functions. Page settings, headers and footers, input text in multiple
	columns. Working with lists (bulleted, numbered, multilevel) Stylistic formatting patterns Indexes and table
	of contents. Creating sections. Inserting special symbols,
	document. SmartArt and WordArt.
	Word processor writer, tables
	Creating a table, cells, rows, columns, headers, borders and flood fill, automatic formatting, inserting rows and columns in the table. Using formulas.
MEDICAL DATA PROCESSING	Introduction to spreadsheet processors Microsoft Excel,
TECHNOLOGIES USING	OpenOffice Calc
SPREADSHEE15	of formulas worksheet labels status bar the working area
	Working area of the program: columns and rows, cells,
	workbooks and worksheets. Cells addressing. Types of data.
	Entering and editing data. Cells formatting.
	Using math functions in Microsoft Excel, Open Office
	Sorting and searching data, entering formulas, priorities of mathematical operations, actions in a cell. Introductionto
	Medical data visualization in a spreadsheet.
	Section contents: Construction and editing of charts,
	histograms, graphs. Diagram wizard. Chart options.
	Exploring the construction of a linear function diagram.
TECHNOLOGIES FOR STODING AND PROCESSING	Introduction to data base Microsoft Access and
MEDICAL DATA USING	Database concept database management system (DBMS)
DATABASE MANAGEMENT	relational databases. Relational database structure: table,
SYSTEMS.	record, field. Data types., Basic elements: tables, forms,
	reports, queries, macros, modules. Table constructor, form
	Wizard. Database design. Editing field properties, key fields.
	Working in a DBMS with medical data.
	Working with information: search, sorting, queries. Creation
	of queries. Select query, query to create tables, query to
	update, add, delete, query designer. Selection conditions,
	operations Search sorting selection of records using filter
COMPUTER NETWORKS IN	Network technologies
MEDICINE	Types of computer networks: local, corporate network.
	Network architecture. Search for information in the WWW,
	search engines, browser. Unified resource locator, keywords,
	types of information resources. Medical Internet resources

	for finding professional information.
	Internal electronic resources of RUDN University.
	e-mail, client and server mail services. Email service
	providers. Working with letters, attachments, address book.
	E-mail security basics, SPAM, Internal electronic resources
	of RUDN University Telecommunication educational and
	information system of RUDN University
	momuton system of Robit of itorsky.
MEDICAL INFORMATION	Introduction to MIS
SYSTEMS	Classification of medical information systems. General requirements for medical information systems. The importance of standards in creating and ensuring the interaction of medical information systems. Organizational support for the functioning of medical information systems. Information model of the treatment and diagnostic process. The main components of the treatment-diagnostic or health- improving-prophylactic process. Compliance of MIS components with the components of production processes. The activity of a medical worker as an object of informatisation. Introduction to the Remsmed platform. Material, technical and personnel support of the IIA. Business games in the study of IIAs. Models of the activities of the departments of health care facilities. EMMAREHA rehabilitation planning and monitoring system. Medical
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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Medical rehabilitation	
Course Workload	Credits and academic hours $-2/72$	
Course contents		
Course Module Title	Brief Description of the Module Content	
Basics of rehabilitation. (Part 1)	Types of rehabilitation. Stages of medical rehabilitation.	
Basics of rehabilitation. (Part 2)	The concept of a multidisciplinary rehabilitation team. Habilitation.	
Disability	Basic concepts of disability. Medical and social expertise.	
Rehabilitation features of patients of different age	Principles of medical rehabilitation depending on the age of	
categories.	the patient.	
Means and methods of medical rehabilitation.	Basic means and methods used in medical rehabilitation	
Ergo therapy	Basic concepts, methods of ergo therapy	
General physiotherapy.	Principles of physiotherapy. Physical Factors in Physiotherapy	
Massage. Assessment scales in rehabilitation	Basic principles, indications and contraindications for massage therapy. Basic rehabilitation scales	
Spa treatment - the third stage of rehabilitation (part 1)	Fundamentals of balneology.	
Sanatorium-resort treatment (part 2).	Physical and natural factors used in medical rehabilitation.	

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Obstetrics
Course Workload	Credits and academic hours $-3/252$
Course	contents
Course Module Title	Brief Description of the Module Content
Section 1 Medical care in antenatal clinic and maternity hospital.	Topic 1.1. Structure, principles of organization of work and tasks of the antenatal clinic and outpatient hospital, the nature of assistance to the female population, the main indicators of the activities of the antenatal clinic, the principles of antenatal care, the timing of registering pregnant women, prenatal and postnatal patronage, the frequency of visits to the antenatal clinic and the methods of examination during pregnancy, terms of granting and duration of maternity leave, the basis of perinatal risk strategy.
	Levels of antenatal care in Russian federation.
Section 2 Reproductive systemof women. Normal	Topic 2.1. Clinical and physiological features of the
menstrual cycle and its regulation.	reproductive system of women. The menstrual cycle and its
Family planning, birth control	regulation. Cyclic changes in the hypothalamus, pituitary, ovaries, uterus. Anatomical and physiological features of the genital organs of women at different ages. Patterns of formation and extinction of the reproductive function of women. Gonadotropic and ovarian hormones. Morphological changes in the ovaries and endometrium. Ovarian and uterine cycle. Functional diagnostic tests. Periods of a woman's life.
	Topic 2.2. Family planning in the modern world. Principles of family planning counseling. Modern contraception. Principles of selection of contraceptive methods. Contraception in different age periods of a woman. Features of pregnancy prevention in women under 18 years old, after 35 years, the observance of the optimal intervals between childbirths.

Section 3 Birth canal. Fetus as an object ofchildbirth.	Topic 3.1. Anatomy of the female genital organs, the muscles and fascia of the pelvic floor, the female pelvis from an obstetric point of view, the structure of the pelvis, its differences from the male, the plane of the pelvis, their boundaries and dimensions, anatomical, wire line (axis) and the inclination angle of the pelvis; normal biocenosis of the genital tract, the mechanisms of its protection, the role of the vaginal microflora.
Section 4 Obstation learning in the dealership	Topic 3.2. Sizes of fetal head. Obstetrical terms
section 4 Obstetrical examination (methods of examination of pregnant women). Diagnosis of pregnancy. Determination of gestational age.	Topic 4.1. Collecting anamnesis in a pregnant woman; conducting a general objective and special obstetric examination, including measuring the abdominal circumference, the height of the uterus, the size of the pelvic planes; determination of the true conjugate (4 ways); measures the Frank size, the dimensions of the lumbosacral rhombus; determination of the presentation, position, and lie of the fetus; examination of the heartbeat of the fetus and its frequency; internal obstetrics examination for determining the degree of maturity of the cervix.
Section 5 Mechanism of labor in cephalic (vertex)	Topic 5.1 Definition of the
presentations.	mechanism of labor, factors determining the mechanism of labor, occipitoanterior variety of vertex presentation, occipitoposterior variety of vertex presentation.
Section 6 Clinical features andmanagement of laborin occipital presentation. Physiology of postpartum and earlyneonatal periods Breech presentation	 Topic 6.1. Modern views on the causes of the onset of childbirth, the concept of "ripeness for childbirth", prebirth signs, the clinical signs and periods of childbirth, their course and management, the rules and procedure for examining the soft tissues of the birth canal in puerperal period, the main moments of the first toilet of the newborn, diagnosing the onset of labor, assessing the nature of contractions (frequency, duration, strength and soreness), the condition of the woman in labor and the puerperal. Interpret the partogram, assess the parameters of the fetal heartbeat, determine the signs of placental separation, examine the placenta. Topic 6.2. Changes in the organs and systems of the puerperal, features of the course and management of the postpartum period, modern perinatal technologies, hygiene measures, the basic principles of breastfeeding. Topic 6.3. Etiology, classification, diagnosis of pelvic presentation of the fetus; to demonstrate on the phantom the mechanism of labor in the pelvic presentation; to determine the location of the presenting part in the birth canal; show Tsovyanov and Brachtmaneuvers; demonstrate extraction of the head of the fetus according to the method of Mauriceau–Smellie–Veit; make a diagnosis and determine the management of childbirth (vaginaldelivery or cesarean section).
Section 7 Multiple pregnancy	Topic 7.1. Definition of multiple pregnancy, features of the formation of fetal eggs in the case of multiple pregnancy, the course of pregnancy and the features of the development of the fetus, methods for diagnosing multiple pregnancy, the course of labor and the features of management, possible complications of both mother and fetus, methods of treatment and

	prevention, management of the II-III stages of labor and the postpartum period.
Section 8 Preeclampsia.	Topic 8.1. Classification of preeclampsia, pathogenesis, clinics, treatment, complications. The main stages of emergency care for eclampsia, as well as the principles of management of labor.
Section 9 Maternal death	

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Operative Dentistry: Cariology and Hard Tissues	
Course Workload	Credits and academic hours – 8/288	
Course contents		
Course Module Title	Brief Description of the Module Content	
Organization and equipment of dental office. Ergonomics. Ethics and deontology in dentistry. Examination of the dental patient Medical record.	Standards and requirements for the organization of the dental office. The basic principles of asepsis in therapeutic dentistry. Methods of examination of the dental patient: basic, additional.	
Etiology, pathogenesis of dental caries. The role of oral fluid and dental deposits in the pathogenesis of caries.	Dental caries. Definition. Etiology. Theory of caries. Pathogenesis. Classification of caries, including ICD – 10.	
Clinic, diagnosis of dental caries. Methods of treatment of dental caries, using various techniques of preparation, the choice of filling material.	Tooth decay of enamel, dentine and cement. Diagnosis, treatment and prevention of dental caries. Errors and complications in the diagnosis and treatment of dental caries.	
Non-carious lesions of the teeth that occur before teething.	Etiology, pathogenesis. Clinic, diagnosis, treatment. Methods of treatment of non-carious lesions of hard tissues of teeth, using different techniques of preparation, the choice of filling material. Prevention.	
Non-carious lesions of the teeth that occur after teething.	Etiology, pathogenesis. Clinic, diagnosis. Methods of treatment of non-carious lesions of hard tissues of teeth, using different techniques of preparation, the choice of filling material. Prevention.	
Teeth whitening. Restoration of teeth. Errors and complications in the diagnosis and treatment of diseases of hard tissues of teeth.	Methods of individual and professional teeth whitening. Stages of aesthetic restoration. Detection, elimination and prevention of errors and complications in the diagnosis and treatment of diseases of hard tissues of teeth.	

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Ophthalmology
Course Workload	Credits and academic hours $-2/72$
Course	contents
Course Module Title	Brief Description of the Module Content
Anatomy. Methods of examination	 1.1 Three parts of the visual analyzer. Anatomy of the orbit 1.2 Protective apparatus of the eye. Conjunctiva. 1.3 Lacrimal organs. Tear secrection and evocuation. 1.4 Tunics of the eyeball. Vitreous body. 1.5 examination of the eye with the side light and in transmitted light. The basics of ophthalmoscopy. 1.6 Central and peripheral vision. 1.7 changing of the vision fields.
	Light perception. Light adaptation.
Visial acuity. Refraction. Accomodation. Binocular vision. The strabismus.	 Optic system of the visual organ. Visual acuity. Physical and clinical refraction. Accommodation and convergence. refractive errors. Correction. Astigmatism, its types, principles of correction. Presbyopia, principles of correction. Binocular vision. Strabismus, types, Reasons, treatment of strabismus.
Inflammatory eye diseases (conjunctivitis, keratitis, scleritis, uveitis)	 3.1 Acute infectious conjunctivitis. Classification. Treatment. Chronic conjunctivitis. Classification. Treatment. Allergic conjunctivitis. Classification. Treatment. 3.2 General symptomes of cornea diseases. Exogenous keratitis. Endogenous keratitis. Etiology, clinical symptomes, treatment. corneal ulcer. Etiology, clinical picture, treatment. outcomes of keratitis. Treatment of keratitis and their consequences. 3.3 Sclerites. The clinical symptomes. 3.4 Iritis. Iridocyclitis. Clinical picture, diagnostics, treatment. Chorioretinitis. Clinical picture, diagnostics, treatment.
Glaucoma cataract	4.1 Definition of glaucoma. Normal and elevated IOP, Etiology, pathogenesis and classification of glaucoma. Acute attack of glaucoma. Features of the clinical picture. Treatment. Methods of treatment of glaucoma Definition of cataract. Classification of cataracts. Link

	cataracts development with systemic diseases. Modern
	principles of treatment of cataract.
Diseases of the retina and optic nerve Damage to the organ of vision and their prevention. Organization of eye care	 5.1 Retinite. Retinal changes in the cases of systemic diseases. The clinical picture. Treatment. Degenerative changes of the retina. The clinical picture. Treatment. 5.2 Inflammatory and not inflammatory diseases of the optic nerve. Features of the clinical picture. Treatment. 5.3 Causes and classification of eye injuries. Damage to the eyelids. Blunt trauma of the eye-ball. Trauma of the orbit. Diagnosis. Treatment. eye burns. Classification. The methods of treatment.
	Organization of eye care. vision disability
Eye diseases in tropical countries	 6.1 Etiology of trachoma, stages of the disease. Complications and consequences of trachoma. Differential diagnosis. Prevention and treatment of trachoma.
	6.2 features of ocular pathology in countries with a tropical climate. Classification of eye diseases in tropical countries. helminthiasis (main types).
	6.3 ophthalmomyiasis. Treatment, prevention.
	6.4 Change of the eye in general diseases. Treatment. the eye diseases in cases of vitamins' deficiency, animals's and plants's poisons

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Oral Surgery	
Course Workload	Credits and academic hours $-5/216$	
Course contents		
Course Module Title	Brief Description of the Module Content	
Module 1	1.1 Etiology, pathogenesis and classification of	
Periodontitis	odontogenic inflammatory diseases of the maxillofacial	
	region	
	1.2 Etiology, pathogenesis and classification of	
	periodontitis. Acute periodontitis. Pathological	
	anatomy, clinical picture, diagnosis, differential	
	diagnosis, prevention.	
	1.3 Chronic periodontitis. Pathological anatomy, clinical	
	picture, diagnosis, differential diagnosis, prevention.	
	1.4 Surgical treatment of chronic periodontitis.	
	Tooth-preserving operations. Indications,	
	contraindications,	
	techniques, complications.	
Module 2 Periostitis of thejaw	2.1 Etiology, pathogenesis and classification.	
	Acute periostitis. Pathological anatomy, clinical	
	picture, diagnosis, differential diagnosis, treatment,	
	prevention	
	2.2 Chronic periostitis. Pathological anatomy,	
	clinicalpicture, diagnosis, differential diagnosis,	
	treatment,	
	prevention.	
Module 3	3.5 Eurology, pathogenesis, pathological	
Odontogenic osteomyelitis of the jaw	anatomy, clinical picture (Acute, subacute,	
	chronic stages of	
	osteomyelitis).	
	3.4 Diagnostics, differential diagnostics, treatment,	
	prevention.	
Module 4	4.1 Lymphatic system of the face and neck.	
Diseases of the lymphatic system	Lymphangitis. Etiology, pathogenesis,	
	pathologicalanatomy, clinical picture, diagnosis.	
	differential	
	diagnosis treatment prevention	
	4.2 Lymphadenitis Etiology pathogenesis	
	nathological anatomy clinical nicture	
	diagnosis	
	differential diagnosis treatment prevention	
	4.3 Adependence and a strain of the second strain o	
	4.5 Adenophiegmon. Eurology, pathogenesis,	
	pathological anatomy, clinical picture,	

	diagnosis,
	differential diagnosis, treatment, prevention.
Module 5	5.1 Pericoronitis. Etiology, pathogenesis, pathological
Diseases ofteething	diagnosis, treatment, prevention.
	5.2 Misplacement and retention teeth. Classification,
	clinical picture, diagnosis, removal of certain groupsof
	teeth, complications, prevention.
Module 6	6.1 Anatomy of the maxillary sinus. Etiology,
Odontogenic inflammation of the maxillary sinus	pathogenesis, pathological anatomy.
	6.2 Clinical picture, diagnosis, differential diagnosis,
	7.1 Classification. General principles of diagnosis.
Module 7 Abscesses and phlegmon located near the	Changes in the body's immunological reactivity in
lower jaw	case of odontogenic inflammatory diseases.
	Abscesses and phlegmon of the submandibular and
	mental
	region.
	7.2 Abscesses and phlegmons of the peripharyngeal,
	pterygo-maxillary and posterior-maxillary spaces.
	7.3 Abscesses of the maxillary-lingual groove,
	and root of the tongue
	7.4 Phlegmon of the floor of the mouth. Putrid-necrotic
	phlegmon of the face and neck.
Module 8 Abscesses and phleamon located near the	8.1 Abscesses and phlegmon of the
	infraorbital,zygomatic, buccal regions.
upper jaw	Phlegmon of the orbit. Phlegmon of the temporal
	region, infratemporal and pterygopalatine fossae.
	8.2 Abscesses and phlegmons of the
	parotid-masticatory and submasserial
	areas.
	General principles for the treatment of abscesses
	andphlegmon of the face and neck. Physiotherapy
	and
	rehabilitation of patients.
Module 9	9.1 Inrombophiebitis of the facial veins. Thrombosis of the cavernous sinus. Mediastinitis. Meningitis. Sepsis.
Complications of udon togenic	
inflammatory	
diseases	

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Organization of General Care
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
General issues	Topic 1.1. Organization of outpatient medical
	care.
	Organization of inpatient medical care
	Topic 1.2. Staff training. Job responsibilities.
	Medical-legal, medical-social, medical-psychological,
	pedagogical aspects. Organization of the patient's school.
	Topic 1.3. Principles of general and specialized
	patient care.
Porticular issues	Topic 2.1. Transportation of patients. Helping
Tarticular issues	seriously ill patients with physiological discharges.
	Topic 2.2. Patient's personal hygiene. Patient's'
	position in bed.
	Topic 2.3. Features of special care for seriously
	ill patients.
	Methods for the prevention of pressure ulcers.
	Topic 2.4 Observation of the patient
	Thermometry Physical diagnostics
	Topic 2.5 Patient nutrition: natural and artificial
	Topic 2.6 Patient care in the postoperative
	period.
	Topic 2.7. Technique for performing gastric
	lavage, bladder catheterization and enemas.
	Topic 2.8. Preparing patients for surgery and
	special diagnostic methods.
	Topic 2.9. Prevention of nosocomial infection.

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Federal State Autonomous Educational Institution of Higher Education

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Orthodontics and pediatric prosthetics
Course Workload	Credits and academic hours – 6/216
Course contents	
Course Module Title	Brief Description of the Module Content
Introduction to the specialty. Organization of orthodontic care. Age features of the dentoalveolar system. Etiology, classification of dentoalveolar anomalies.	Introduction to the specialty. Organization of orthodontic help. Age features of the dentoalveolar system. Etiology of dental anomalies. Classification of dental anomalies.
Methods of examination and diagnostics in orthodontics.	Clinical method of examination in orthodontics. Anthropometric methods of examination. X-ray methods of examination. Functional examination methods.
Methods of treatment in orthodontics. Prevention of dental anomalies	Methods of treatment in orthodontics. Classification of devices. Apparatuses of mechanical action. Devices of functional- guiding and combined action. Trainers, activators and regulators of functions.
Modern technologies in orthodontics	Modern orthodontic methods of treatment. Bracket system.

Dental anomalies. clinical forms. Diagnostics. Treatment.	Diagnosis and methods of treatment of anomalies of teeth, dental arches, and jaw bones.
	Diagnosis and treatment of anomalies of occlusion in the sagittal direction.
	Diagnosis and treatment of anomalies of occlusion in the vertical direction . Diagnosis and treatment of anomalies of occlusion in the transverse direction.
Dental prosthetics in children and adolescents.	Principles of treatment of dentoalveolar anomalies in congenital malformations of the maxillofacial region.
	Dental prosthetics in children and adolescents.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Otorhinolaryngology
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
Research methods of ENT – organs.	Research methods of ENT – organs: anterior
	rhinoscopy, posterior rhinoscopy, pharyngoscope,
	otoscopy.
Pathology of the nose and paranasal sinuses.	Injuries of the nose and paranasal sinuses.
	Nosebleeds. Foreign body of the nasal cavity and
	paranasal sinuses. Acute and chronic rhinitis.
	Inflammatory diseases of the paranasal sinuses.
Pathology of the pharynx.	Angina, complications of angina. Adenoids.
	Foreign body of the pharynx.
Pathology of the ear.	Diseases of the external ear. Acute middle ear
	infections. Mastoiditis. Chronic diseases of the
	middle ear.
Pathology of the larynx	Acute diseases of the larynx. Stenosis of the larynx.
	Tracheotomy
Tumors of the ear and upper respiratory tract	Tumors of the ear and upper respiratory tract
rumors of the car and upper respiratory tract	

Developers:

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course title	Pathologic Anatomy - Pathologic Anatomy of the Head and Neck
Course workload	Credits and academic hours $-4/144$
Course contents	
Course Module Title	Brief description of the module content
Pathologic anatomy of cells and tissues.	Necrosis.ApoptosisIntracellularaccumulation:Hyaline changes.Amyloidosis:Pathologicalcalcification(calcification).Disordersofpigment(chromoprotein)metabolism.Pigmentation disorders.Pigmentation
Pathologic anatomy of typical pathological processes.	Violations of the water-electrolyte balance. Circulatory disorders: shock, thrombosis, embolism, DIC. A heart attack. Acute inflammation. Chronic inflammation. Regeneration and wound healing. Pathological conditions of the immune system. Hypersensitivity reactions. Graft rejection. Autoimmunization and autoimmune diseases. Immune deficiency syndromes. Manifestations in the orofacial area. Pathology of cell growth and differentiation. Adaptation processes. Examples in the orofacial area.
Pathologic anatomy of tumors.	The concept of precancerous conditions, examples in the orofacial area. The concept of "cancer in place". Epithelial tumors. Mesenchymal neoplasms. Tumors of the bronchi and lungs. Tumors of the nervous system. Melanocytic tumors. Examples of epithelial and mesenchymal tumors in the head and neck. Teratomas. Dermoid cyst as a variant of mature teratoma.
Pathologic anatomy of blood and bone marrow cells.	Hematopoietic tissue tumors (leukemias). Hodgkin's disease (lymphogranulomatosis), non-Hodgkin's lymphoma. Anemia. Manifestations of leukemia, lymphoma, and

	anemia in the orofacial region.
Pathologic anatomy of diseases of the	Atherosclerosis. Cerebrovascular disease.
cardiovascular system.	Coronary heart disease. Hypertension.
	Rheumatic diseases: rheumatism, rheumatoid
	arthritis, systemic lupus erythematosus,
	scleroderma disease, Sjogren's syndrome.
	Heart defects.
Pathologic anatomy of diseases of internal	Kidney diseases. Liver diseases. Diseases of
organs.	the gastrointestinal tract.
Pathologic anatomy of infectious diseases.	General characteristics of infectious diseases.
	Viral infections: bronchitis, pneumonia, flu,
	measles, HIV infection. Bacterial infections:
	diphtheria, scarlet fever. Specific diseases:
	tuberculosis, sarcoidosis, syphilis, leprosy,
	scleroma. Quarantine infections: plague,
	smallpox, cholera, anthrax, sepsis, odontogenic
	sepsis.
Pathologic anatomy of orofacial pathology.	Tumors and tumour-like formations of the
	scalp and neck. Pathology of the oral mucosa
	and lips. Non-tumor lesions of the salivary
	glands. Tumors of the salivary glands.
	Pathology of hard tooth tissues, pulp and
	periapical tooth tissues. Periodontal diseases.
	Diseases of the jawbones. Odontogenic
	infection.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Pathophysiology – Pathophysiology of Head and Neck	
Course Workload	Credits and academic hours $-5/180$	
Course contents		
Course Module Title	Brief Description of the Module Content	
Module 1	Topic 1.1. Conceptions of health and disease. Sano- и	
General nosology.	pathogenesis.	
	Topic 1.2. Pathology of cellular biomembranes and	
	organells. Types and mechanisms of cell death.	
	Disorders of biorhythms of a cell.	
Module 2 Non-specific pathological processes	Topic 2.1. Disorders of local blood circulation.	
	Topic 2.2. Inflammation. Features of inflammatory	
	processes in the maxillofacial region. Traumatic	
	lesions of oral tissues. Wound process and	
	Topic 2.3 Pathogenesis of inflammatory diseases of	
	the oral cavity Pulpitis Periodontitis Gingivitis	
	Periodontitis. Rapidly progressive and juvenile	
	periodontitis. Sialadenitis. Cheilitis. Glossites.	
	Topic 2.4. The microflora of the oral cavity and its	
	influence on the development of systemic and local	
	pathological processes. Caries.	
	Topic 2.5. Mechanisms of immune protection.	
	Pathology of the immune system. Immunity of the	
	Topic 2.6 Allorgy Eastures of allorgic reactions in	
	dentistry	
	Topic 2.7. Pathophysiology of tumor growth. Typical	
	pathological processes of the salivary glands; tumor	
	and non-tumor diseases of the salivary glands	
	(sialadenitis, etc.).	
Module 3	Topic 3.1. Hypoxia. Pathogenesis of periodontal	
Non-specific metabolic disorders	diseases against the background of oxygen deficiency	
	III USSUES. Tania 3.2 Pathology of hody thermore sylation	
	Fever	

	Topic 3.3. Pathophysiology of carbohydrate
	metabolism. Diabetes. Manifestations of diabetes in
	the oral cavity.
	Topic 3.4. Pathology of water-salt metabolism.
	Edema. Pathophysiology of the acid-base state of the
	body. Acid-base disorders in the oral cavity.
	Topic 3.5. Typical pathological processes in the
	maxillofacial region.
	Topic 3.6. Pathophysiology of fat, protein and purine
	metabolism. Protein metabolism disorders in the
	pathogenesis of caries.
Nodule 4	1 opic 4.1. Pathophysiology of extreme states.
Extreme states	1 opic 4.2. Pathophysiology of pain. Odontogenic
	pain. Changes in the maxilioracial apparatus in
	neuraigia and neuritis of the factal and trigeninial
	Collapse Come Dving and revival of the body
	Clinical and biological death principles of
	resuscitation
	Topic 4.3. Pain and dental stress. Pathogenesis of
	myofascial pain in the maxillary fossa.
Module 5	Topic 5.1. Anemias. Hemoblobonosis.
Pathophysiology of the hematopoietic system	Hemoglobinopathies.
	Topic 5.2. Leukocytosis. Leukopenia. Leukemias.
	Changes in the oral mucosa in diseases of the
	hematopoietic system.
	Topic 5.3. Clinical tasks in the pathophysiology of
	the hematopoietic system.
	Topic 5.4. Hemorrhagic diathesis. Dental
	manifestations and their pathogenesis.
Module 6	Topic 6.1. Arrhythmias.
Pathophysiology of the cardiovascular and respiratory	7
systems.	Topic 6.2. Coronary heart disease. Coronarogenic
	and noncoronarogenic necrosis of the myocardium.
	Complications of myocardial infarction.
	Topic 6.3. Acute coronary syndrome.
	1 opic 6.4. Heart defects. Cardiomyopathies.
	Myocarditis. Endocarditis. Pericarditis.
	1 opic 6.5. Heart failure. Pathophysiology of
	Topic 6 6 Dethophysiology of bronchiel obstruction
	syndromes
	Topic 6 7 Pathophysiology of vascular topus
	Topic 6.8 Pathophysiology of the vascular wall
	Atherosclerosis
Module 7	Topic 7.1. Pathophysiology of the chewing apparatus.
Pathophysiology of the gastrointestinal tract	Pathogenesis of diseases of the temporomandibular
	ioint.
	Topic 7.2. Non-specific dysfunctions of the
	gastrointestinal tract.
	Topic 7.3. Acute and chronic gastritis. Peptic
	ulcer. Diseases of the operated GIT.
	Topic 7.4. Pathophysiology of the liver and bile
	ducts. Jaundice. Hepatic failure. Pathophysiology of

	cholecystitis. Pathophysiology of the pancreas.
	Intestinal obstruction.
	Topic 8.1. Non-specific disorders of the
Module 8	excretory function of the kidneys.
Pathophysiology of the excretory system	Topic 8.2. Nephrotic syndrome. Nephritic syndrome.
	Acute and chronic diffuse glomerulonephritis.
	Pyelonephritis. Urolithiasis. Acute and chronic renal
	failure. Uremia. Renal coma.
Module 9	Tonic 9.1. General mechanisms of endocrine
Pathophysiology of the endocrine system	disorders. Pathophysiology of the hypothalamic.
	pituitary and adrenal systems.
	Topic 9.2. Pathophysiology of thyroid, parathyroid
	glands, thymus, epiphysis and gonads.
	Topic 9.3. Dental manifestations of endocrine
	pathology.
Module 10	Topic 10.1. Pathophysiology of functional neuroses.
Pathophysiology of the nervous system and higher	Pathological reflexes. Pathophysiology of drug
nervous activity	addiciton. Pathophysiology of alcoholism.
	Topic 10.2. Pathophysiology of CNS and neuroses.
	Topic 10.2. Pathophysiology of CNS and neuroses.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Pediatric Dentistry	
Course Workload	Credits and academic hours - 4/144	
Course contents		
Course Module Title	Brief Description of the Module Content	
Dental caries in children	Anatomical and physiological features of teeth in children.	
	Methods of examination of a child in the clinic of pediatric	
	therapeutic dentistry.	
	Etiology and pathogenesis of dental caries in children.	
	Classification of caries. Clinical features of the course of	
	dental caries in children of different age groups. Diagnostic methods.	
	Enamel caries of temporary and permanent teeth in	
	children. Dental caries of temporary and permanent teeth.	
	Diagnostics. Cement caries of temporary and permanent	
	teeth. Treatment. Suspended dental caries.	
	Complications in the treatment of dental caries in children.	
	Prevention of caries.	
Non-carious lesions of the hard	Pathology of hard tooth tissues during their follicular	
tissues of the teeth	development.	
	Systemic enamel hypoplasia (SEH). Local hypoplasia.	
	Tetracycline teeth. Other types of SEH.	
	Endemic dental fluorosis. Diagnostics. Treatment. Enamel	
	hyperplasia. Hereditary disorders of dental tissue	
	development. Hereditary amelogenesis imperfecta.	
	Hereditary disorders of dental tissue development.	
	Imperfect dentin and odontogenesis.	
Pulpitis in children	Anatomical and physiological features of the pulp of	
	temporary and permanent teeth in children of different ages.	
	Etiology and pathogenesis of pulpitis.	
	Classification. Clinic. Methods for assessing the pulp	
	condition in children. Diagnosis of pulpitis in children.	
	Methods of treatment of pulpitis of temporary and	
	permanent teeth in children. Conservative method of	
	treatment of pulpitis of temporary and permanent teeth in	
	children. Devital method of treatment of pulpitis of	

	temporary and permanent teeth in children. Treatment of
	pulpitis in children under anesthesia.
	Errors and complications in the diagnosis and treatment of
	pulpitis in children.
Periodontitis in children	Classification and clinical picture of periodontitis in
Emergency dental care	children
Entergency dentar care	Diagnosis and differential diagnosis of periodontitis
	Treatment of pariodoptitis of baby tooth in children
	Treatment of periodontitis of permanent teeth in childhood
	I reachent of periodonius of periodontitis treatment in
	Long-term results of dental periodonitits treatment in
	children.
	Emergency dental care for children.
Traumatic dental injuries in	Traumatic dental injuries in children.
children	
Diseases of the oral mucosa in	Anatomical and physiological features of the mucous
children	membrane of the oral cavity in children. Classification of
	diseases of the oral mucosa. Traumatic injuries of the
	mucous membrane of the oral cavity.
	Candidiasis in children.
	Acute herpetic stomatitis in children. Clinic. Diagnostics.
	Treatment.
	Recurrent herpetic stomatitis. Herpangina.
	Streptostaphylococcal lesions of the skin of the perioral
	region and lips.
	Manifestation of acute infectious diseases on the oral
	mucosa in children. Treatment.
	The condition of the oral mucosa in children with diseases
	of internal organs and systems.
	Manifestations of drug and bacterial allergies in the oral
	cavity in children
	Manifestation of HIV infection in the oral cavity in
	children
	Damage to the oral mucosa in children caused by
	tuberculosis and synhilitic infection. Differential diagnosis
	of various mucous membrane of the oral cavity lesions in
	shildhood
Desire denoted discovery in shift down	Chailitis in abildran Classifis in abildran
renouontal diseases in children	A notomical and physiological factures of periodortal
	Anatomical and physiological features of periodonial
	disease in children. Periodontal diseases in childhood.
	Classification. Gingivitis.
	Periodontitis in childhood.
	Idiopathic diseases with progressive lysis of periodontal
	tissues. Clinic. Diagnostics.
Developense	

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Pediatric Maxillofacial Dentistry
Course Workload	Credits and academic hours $-3/108$
Course	contents
Course Module Title	Brief Description of the Module Content
Module 1 Patterns of growth and development of children	 1.1. Periods of childhood. Physical, neuropsychological and sexual development of children. Criteria of classification of childhood into periods. Criteria of assessment of normal development and its abnormalities. Features of dental treatment of children with attention deficit disorder. 1.2. WHO physical development 1.3. Features of the formation of the dental
Module 2 The main somatic diseases of children	 system in childhood 1.4. Anatomical and physiological features of the musculoskeletal system. Diseases of the musculoskeletal system (Rickets) 2.1. The newborn baby. Borderline states of the newborn. Prematurity. IUGR. Perinatal CNS injury. Neonatal infections. Candidal stomatitis. Neonatal jaundice.
	 2.2. The child with cough. Bronchitis, pneumonia, cystic fibrosis. Features of dental care for children with chronic bronchopulmonary diseases 2.3. Bronchial asthma. Allergic rhinitis. Atopic dermatitis. Clinical and diagnostic signs of allergic diseases of the oral mucosa in children. 2.4. Congenital heart defects. Minor developmental anomalies. Non-rheumatic carditis. Infectious endocarditis. Antibacterial prevention of infectious endocarditis in dental

	treatment. Juvenile arterial hypertension.
	Features of dental care for children with heart
	and vascular diseases.
	2.5. Diseases of the urinary system. Urinary
	tract infections. Glomerulonephritis. Changes
	in the oral cavity in chronic kidney disease.
	2.6. Diseases of the gastrointestinal tract.
	Dental aspects of gastroenterological diseases.
	2.7. Endocrine diseases. Chronic eating
	disorders. Diabetes mellitus. Diseases of the
	thyroid gland. Features of the development of
	the dental system in eating and metabolic
	disorders of children.
Module 3	3.1. Exanthema: measles, rubella, parvovirus
Pediatric infectious diseases	infection.
	3.2. Enterovirus infections. Poliomyelitis
	3.3. Mumps, diphtheria
	3.4. Meningeal syndrome. Bacterial and viral
	meningitis. Meningococcal infection.
	3.5. Streptococcal infection Scarlet fever
	Versiniosis Pseudotuberculosis Multisystem
	inflammatory syndrome in children
	36 Harpes infection
	5.0. Herpes infection.
	37 Acute intestinal infections Hemolytic
	uromia sundroma
	urennic syndrome

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Pediatrics
Course Workload	Credits and academic hours - 3/108
Course	contents
Course Module Title	Brief Description of the Module Content
Module 1	1.1. Periods of childhood. Physical,
Patterns of growth and development of	neuropsychological and sexual development of
children	children. Criteria of classification of childhood
	into periods. Criteria of assessment of normal
	development and its abnormalities. Features of
	dental treatment of children with attention deficit
	disorder.
	1.2. WHO physical development
	1.3. Features of the formation of the dental
	system in childhood
	1.4. Anatomical and physiological features of
	the musculoskeletal system. Diseases of the
	musculoskeletal system (Rickets)
Module 2	2.1. The newborn baby. Borderline states of the
The main somatic diseases of children	newborn. Prematurity. IUGR. Perinatal CNS
	injury. Neonatal infections. Candidal stomatitis.
	Neonatal jaundice.
	2.2. The child with cough. Bronchitis,
	pneumonia, cystic fibrosis. Features of dental
	care for children with chronic
	bronchopulmonary diseases
	2.3. Bronchial asthma. Allergic rhinitis. Atopic
	dermatitis. Clinical and diagnostic signs of
	allergic diseases of the oral mucosa in children.
	2.4. Congenital heart defects. Minor
	developmental anomalies. Non-rheumatic
	carditis. Infectious endocarditis. Antibacterial
	prevention of infectious endocarditis in dental
	treatment. Juvenile arterial hypertension.
	Features of dental care for children with heart

	and vascular diseases.
	2.5. Diseases of the urinary system. Urinary tract
	infections. Glomerulonephritis. Changes in the
	oral cavity in chronic kidney disease.
	2.6. Diseases of the gastrointestinal tract. Dental
	aspects of gastroenterological diseases.
	2.7. Endocrine diseases. Chronic eating
	disorders. Diabetes mellitus. Diseases of the
	thyroid gland. Features of the development of
	the dental system in eating and metabolic
	disorders of children.
Module 3	3.1. Exanthema: measles, rubella, parvovirus
Pediatric infectious diseases	infection.
	3.2. Enterovirus infections. Poliomyelitis
	3.3. Mumps, diphtheria
	3.4. Meningeal syndrome. Bacterial and viral
	meningitis. Meningococcal infection
	3.5. Streptococcal infection. Scarlet fever.
	Yersiniosis. Pseudotuberculosis. Multisystem
	inflammatory syndrome in children.
	3.6. Herpes infection.
	3.7. Acute intestinal infections. Hemolytic
	uremic syndrome

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Periodontology	
Course Workload	Credits and academic hours – 7/252	
Course contents		
Course Module Title	Brief Description of the Module Content	
The structure of the periodontium. Etiology and pathogenesis of periodontal disease. Classification of periodontal diseases.	The concept of periodontal complex. Modern view on the etiology and pathogenesis of periodontal disease.	
The prevalence of periodontal disease. Examination of a patient with periodontal disease. Methods of diagnosis of periodontal disease.	Classifications. Features of examination of patients with periodontal disease Methods of index evaluation. Basic and additional research methods.	
Gingivitis	Gingivitis acute and chronic, hyperplastic, ulcerative. Clinic, diagnosis, treatment, prevention.	
Periodontitis	Periodontitis. Clinic, diagnosis, treatment, prevention.	
Periodontosis.	Periodontosis. Clinic, diagnosis, treatment, prevention.	
Periodontolisis.	Periodontolisis. Clinic, diagnosis, treatment, prevention.	
Periodontal disease.	Clinic, diagnosis, treatment.	
The structure of the periodontium. Etiology and pathogenesis of periodontal disease	The influence of somatic diseases on the inflammatory process in the periodontium. Features of treatment and prevention.	
Features of periodontal disease course in patients with General somatic pathology. Non-surgical treatments	Professional oral hygiene, local anti- inflammatory therapy.	

Open curettage, periodontal pockets, flap
surgery, gingivectomy, mucogingival surgery.
Treatment of the patient is individual and
complex:
General and local; conservative and surgical,
including orthopedic treatment - splinting of
mobile teeth and selective grinding of teeth.
Maintenance therapy. Dispensary observation.

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Pharmacology
Course Workload	Credits and academic hours -5 (180)
Course c	ontents
Course Module Title	Brief Description of the Module Content
General Pharmacology	1. Recipe. Introduction to Pharmacology.
	Types of prescriptions. Formulation rules in the
	Russian Federation. Types of dosage forms. ATC
	classification.
	2. Basic principles of pharmacodynamics
	Mechanisms of drug action and effects.
	Therapeutic index, therapeutic range. Therapeutic
	drug monitoring. Pharmacodynamic interaction of
	drugs.
	3. Basic principles of pharmacokinetics.
	Basic pharmacokinetic parameters and their
	significance. Factors affecting the value of
	interaction of drugs
Dharmagelogy of drugs groups. Drugs affecting	1 Drugs affecting afferent innervation
afferent and efferent innervation	1. Drugs affecting afferent finite vation.
	2 Cholinergic agents Anticholinergics
	Cholinomimetics
	3 Adrenomimetics and sympathomimetics
	4. Adrenolythics and sympatholytics.
	Classification. Pharmacodynamics, mechanism of
	action. Pharmacokinetic parameters. Indications.
	Contraindications Adverse reactions. Drug
	interactions. Use in special categories of patients.
Pharmacology of drugs groups.	1. Diuretics
Drugs affecting the cardiovascular system	Carbonic anhydrase inhibitors. Osmodiuretics.
	Loop diuretics. Diuretics acting on the cortical
	segment of Henle's loop. Potassium-sparing
	diuretics.
	2. Lipid-lowering agents
	Statins; fibrates; derivatives of nicotinic acid; bile

	acid sequestrants; an inhibitor of intestinal cholesterol absorption (ezetimibe); PCSK9 inhibitors. 3. Antihypertensive agents 4. Antianginal drugs 5. Antiarrhythmic drugs. 6. Drugs to manage heart failure Drugs with a positive inotropic effect: Classification of inotropic agents. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions.
Pharmacology of drugs groups. Drugs affecting hemostasis and hematopoiesis	 Drugs affecting the blood coagulation system. Drugs affecting the hematopoietic system. Classification. Pharmacodynamics of the drug group, mechanism of action. Pharmacokinetic parameters of the drug group. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients.
Pharmacology of drugs groups. Drugs affecting the functions of the respiratory system, digestion and metabolic processes	 Drugs affecting the functions of the respiratory system. Beta-2-adreno-agonists, M-cholinolytics. Methylxanthines. Mast cell membrane stabilizers. Antileukotriene drugs. Inhalation GCS. Systemic GCS. Antitussive drugs. Mucolytics, mucoregulators, mucokinetics. Antitussive drugs of central action. Drugs affecting the functions of the digestive system. Antacids. H2-histamine receptor blockers. M-cholinolytics. Proton pump inhibitors. Prokinetics. Gastrocytoprotectors. Antibacterial (anti-Helicobacter) drugs in the treatment of peptic ulcer: amoxicillin, clarithromycin, tetracycline, metronidazole. Hormones of the pituitary gland, hypothalamus, pineal gland, thyroid and pancreas, hypoglycemic drugs. Steroid hormones. Sex steroids. Glucocorticoids. Drugs affecting immune processes. Antiallergic drugs. Classification. Pharmacodynamics of the drug group, mechanism of action. Pharmacokinetic parameters of the drug group. Indications. Contraindications Adverse reactions. Drug interaction. Use in special categories of patients.
Pharmacology of drugs groups. Drugs affecting the central nervous system. Drugs affecting the nociceptive system and the synthesis of pain and inflammation mediators	 Drugs for anesthesia. Analgesics. Sedative drugs. Hypnotic agents. Anxiolytics. Antiepileptic drugs. Antipsychotics. Antidepressants. Remedies for the treatment of mania. Psychostimulants. Nootropics. Drugs for neurodegenerative diseases. Classification. Pharmacodynamics of the group of

	drugs, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients.
Pharmacology of drugs groups. Antibacterial, antiviral and antifungal agents	 Beta-lactam antibiotics Penicillins, cephalosporins, carbapenems and monobactams Non-beta lactam antibiotics and synthetic antimicrobials: aminoglycosides, macrolides, tetracyclines, glycopeptides, amphenicols. New groups of antibiotics: oxazolidinediones (linezolid), lipopeptides (daptomycin), gycilcyclines (tigecycline), pleuromutilins (retapamulin). Sulfonamides, quinolone and fluoroquinolone derivatives, 5-nitrofuran, imidazole derivatives. Anti-tuberculosis drugs. 1st line drugs, 2nd line drugs. Tuberculosis chemotherapy regimens. Antiprotozoal, antisyphilitic, antihelminthic drugs Classification. Pharmacodynamics, spectrum of activity. Pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug- drug interactions. Use in special categories of patients.

Butranova O.I.

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S. K. Zyryanov

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Philosophy
Course Workload	Credits and academic hours - 3 credits (108)
Course	contents
Course Module Title	Brief Description of the Module Content
WHAT IS PHILOSOPHY	UNIT 1. The subject of philosophy, its functions,
	method and main divisions.
	The problem of practical value of philosophy: two
	approaches. Philosophy as a type of worldview.
	Philosophy and science. Philosophy and its subject.
	Functions of philosophy. Divisions of philosophy.
	UNIT 2. The genesis of philosophy.
	How a person comes to philosophy: two approaches.
	"Axis time" and the genesis of philosophy. The
	beginning of philosophy in ancient India. The
	UNIT 2. The beginning of philosophy in ancient
	Graece (from Phales to Socrates)
	Main studies of the first Greek philosophy. Sophists:
	the problem of true knowledge. Socrates: life and
	teaching. Socrates' ethical philosophy.
PHILOSOPHICAL STUDY OF SOCIETY	UNIT 4. Axiology: philosophical study of values.
	Axiology: what is value? Non-material, material and
	post-material values in Habermas' philosophy. The
	subjective and objective elements in the process of
	evaluating. The system and hierarchy of values: the
	organizing principles. The problem of "anomia".
	Morality and ethics. The purposes of morality. The
	four domains of ethical assessment and their
	evaluation terms. Utilitarian ethics: pleasure principle
	and teleological principle. Kantian deontological
	Policious values and the problem of reavaluation of
	Religious values and the problem of reevaluation of
	UNIT 5 Philosophy of history The problem of
	progress
	Progress and regress. The criteria of social progress.
	Cyclic, linear and spiral models (patterns) of history.
	Historicism and "rhizomatic" model of history.
	UNIT 6. Theory of civilizations.

	The concepts of civilization. Linear civilization concept. The concept of local civilizations. Traditional (pre-industrial) civilization. Industrial civilization. Mass-culture: pros and cons. Post- industrial civilization. UNIT 7. Justice, legitimation and justification of a state authority.
	distributive justice: strict egalitarianism, resources- based principle, utilitarian principle, desert-based principle, libertarianism, differential principle. State authority: legality and legitimacy. Historical forms of legitimation of state authority and theory of social contract.
PHILOSOPHICAL WORLDVIEW AND METAPHYSICAL THEORIES	 UNIT 8. Philosophical worldview of Ancient Greece and Middle Ages. Worldview and metaphysics. Philosophical Worldview of Ancient Greece: general principles. Metaphysical theories by Plato, Aristotle and Plotinus. Philosophical Worldview of Middle Ages: general principles. UNIT 9. Philosophical worldview of the Renaissance, Modern Time and specifics of contemporary worldview. Philosophical worldview of the Renaissance and Modern Time: general principles. Metaphysics and the foundation of contemporary science. Specific
PHILOSOPHICAL STUDY OF KNOWLEDGE AND COGNITION	 principles of contemporary worldview. UNIT 10. Theories of truth and true cognition. Empirical, rational and super-rational cognition. Consciousness, knowledge and cognition. The principle of reflection. Correspondent, coherent and pragmatic theories of truth. Criterions of truth. Forms of empirical cognition: sensations, perceptions, recollections. Forms of rational cognition: concepts, judgments. Inferences: inductive, deductive and analogical. UNIT 11. Philosophy and the limits of cognition. Paradigms and types of scientific rationality. F.Bacon' theory of idols. Skepticism in ancient Greece. Local, global and superglobal skepticism. Kantian theory of Knowledge. The problem of "thing in itself". E. Husserl's theory of phenomenological reduction. UNIT 12. The study of human nature. Natural and cultural components of human being.
PHILOSOPHYCAL ANTHROPOLOGY	The problem of good and evil in human nature and its political implementations. Conscious and unconscious components in human being. UNIT 13. The problem of freedom: philosophical approach. Determinism and indeterminism in philosophy. Freedom and responsibility. Escape from freedom and its main mechanisms) by Erich Fromm. UNIT 14. The purpose of life: philosophical approach.
	The problem of the meaning of life. The main vectors of the search for the purpose of life: individualism and collectivism, pragmatism and idealism, mundanism and transcendentalism.
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FUTURE OF PHILOSOPHY	UNIT 15. Postmodern philosophy. The problem of authenticity.
	Pre-modern, modern and post-modern cultural types.
	Postmodernism in art, science and philosophy.
	Simulation and the problem of authenticity.
	UNIT 16. Course outcomes.
	General conclusions.

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Philip V. Tagirov name and surname

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Marina L. Ivleva

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Physical Culture
Course Workload	Credits and academic hours $-2/72$
Cours	e contents
Course Module Title	Brief Description of the Module Content
Module 1	1.1. Self control in physical exercising and
Methodical and practical	sports
	1.2. Human physical development indicators
	1.3. Human functional statement indicators
	1.4. Physical fitness indicators
	1.5. Physical endurance indicators
	1.6. Human Psycho- physiological statement
	indicators
	1.7. Physical culture in production activities
	of bachelor and specialist

Developers:

E.A. Lubyshev

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Physical training
Course Workload	Credits and academic hours $-0/328$
	Course contents
Course Module Title	Brief Description of the Module Content
Module 1	1.1. Self control in physical exercising and sports
Methodical and practical	1.2. Human physical development indicators
	1.3. Human functional statement indicators
	1.4. Physical fitness indicators
	1.5. Physical endurance indicators 1.6. Human Psycho-physiological statement
	indicators
	1.7. Physical culture in production activities of
	bachelor and specialist

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Physics
Course Workload	Credits and academic hours $-2/72$
Cour	se contents
Course Module Title	Brief Description of the Module Content
Introductory lecture.	Methods of processing of measurement results.
indomentals of vestor and methometical	Direct and indirect measurements. Theory of
analysis	errors. Types of errors: gross, systematic,
anarysis	random; absolute, relative. Rules for registration
	of laboratory work. The order of writing the
	abstract. Safety at work in the physical
	laboratory.
	Basic concepts of mathematical and vector
	analysis. Derivatives and differentials. Rules for
	adding (subtracting) and multiplying vectors.
	Integration rules.
	Calculations of indefinite and definite integrals.
Mechanics. Oscillations	Introduction. Definitions (kinematics, dynamics,
	statics, trajectory, reference systems, equation of
	motion). Rectilinear motion. Circular motion.
	Inertia. Force of inertia. Dynamics of rotational
	motion. Moment of inertia. The moment of
	impulse and the law of its preservation.
	Gravitational interaction. Acceleration of
	gravity. Weightlessness. Harmonic vibrations.
	Gravitational interaction. Acceleration of
	gravity. Weightiessness. Longitudinar and
	transverse waves. Ourasound.
Dynamics, mechanical oscillations	Work and energy. Potential field, the work of
	conservative forces, potential energy. Kinetic
	energy. The law of conservation of energy.
	Rotational motion of a rigid body. A moment of
	strength. The basic equation of the dynamics of
	rotational motion. The equation of motion of the
	angular momentum. The law of conservation of
	the angular momentum.

The waves. Sound wave	Mechanical waves. The plane wave equation. Parameters of vibrations and waves. Energy characteristics. The Doppler effect and its use in medicine. Sound. Types of sounds. A complex tone and its acoustic spectrum. Wave resistance.Objective(physical)and subjective (biological) characteristics of sound. Infrasound. Ultrasound, the physical basis of application in medicine
Hydrostatic. Molecular Physics	The viscosity. Methods for determining the viscosity of liquids. Stationary flow, laminar and turbulent flows. Newton's formula, Newtonian and non-Newtonian liquids. The Poiseuille formula. The Reynolds number. Features of hemodynamics in the main, resistive, capillary and venous vessels of the circulatory model. Work and warmth. The first beginning of thermodynamics. Heat capacity. An adiabatic process (Poisson's formula). The basic equation of molecular kinetic theory. The heat and motion of molecules. The first principle of thermodynamics applied to the human body. The role of nutrition and respiration. Internal energy. Internal pressure and surface tension in the fluid. Diffusion. Osmosis. Wetting Capillary phenomena.
Electricity and magnetism	Electric charges and their properties. Coulomb's law. The electrostatic field. Field strength. Power lines. Potential. Equipotential surfaces. The relationship between tension and potential. Conductors in an electrostatic field. Electrical capacity. Capacitors, their connection. The energy of the electric field. Current strength and current density. Electromotive force (EMF.). of the EMF source. Ohm's law for a homogeneous, inhomogeneous section of the circuit, for a closed circuit. The Kirchhoff rules. Ohm's laws and Kirchhoff's rules for direct current. Electric and magnetic fields, currents and electromagnetic fields. The total resistance (impedance) in electrical circuits. Ohm's law for alternating current and voltage. Diathermy. UHF therapy. Microwave therapy. Physical foundations of rheography and its application in medicine.
Optics	Geometric optics. The phenomenon of total internal reflection of light. Refractometry. Fiber optics. The eye is an optical system. Microscopy. Wave optics. Electromagnetic

	 waves. The scale of electromagnetic waves. Energy characteristics of light fluxes: the flux of light radiation and the flux density (intensity). Diffraction grating. The resolution of optical devices and the eye. The polarization of light. Polarization microscopy. Polarimetry. The interaction of light with matter. Light scattering. Light absorption. The Booger-Lambert-Behr law. 	
Electromagnetic radiation of the optical range	Thermal radiation. Characteristics and laws of the radiation. The radiation of the Sun. Application temperature. Calculation of the radiation temper Lasers and their application.	erm of 1 ratu
Atomic structure. EPR. NMR. Ionizing radiation.	Atomic structure. Nuclear force. Isotopes.Electronic paramagnetic resonance. Nuclearmagnetic resonance. Principles of magneticresonance imaging. Electronpositrontomography.Ultraviolet radiation and its application. X-rayradiation and its use in land management.Radioactive radiation. Detection and dosimetryof ionizing radiation	

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L.P. Uschenko

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Physiotherapy of Dental Diseases
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
The theoretical basis of physiotherapy, physioprophylaxis. The organization of physiotherapeutic dental care.	The theoretical basis of physiotherapy, physioprophylaxis. Physiological mechanisms of physical factors. The organization of physiotherapeutic dental care. Documentation in the work of the physiotherapy room. Fundamentals of safety.
Galvanization, medicinal electrophoresis and depophoresis in dentistry.	The mechanism of physical and physiological action of direct current, therapeutic effects in the treatment of dental diseases. Galvanization, medicinal electrophoresis in dentistry Depophoresis. Trans- channel DC current. The method of conducting depophoresis.
Pulsed low and medium frequency currents and their use in dentistry.	Pulsed low and medium frequency currents. Indications and contraindications for use in dental practice. Electrical anesthesia. Electroodontodiagnostics, fluctuorization, amplipulse therapy. Techniques and methods of conducting.
High-frequency alternating current, electric and electromagnetic fields and their application in dentistry.	High frequency alternating current, electrical and electromagnetic fields, their application in dentistry. Diathermy, diathermocoagulation - physical and physiological action, therapeutic effects. Method of diathermocoagulation for pulpitis, periodontitis, granulation in the periodontal pocket.
Phototherapy. Ultrasound therapy in dentistry	Phototherapy and laser therapy in dentistry Laser therapy of dental diseases. Ultrasound therapy in dentistry. Therapeutic effects of ultrasound. Indications and contraindications for use.
Physical methods in the diagnosis and treatment of diseases of hard tooth tissues.	Physical methods in the diagnosis and treatment of diseases of the hard tissues of the tooth. Physiotherapy of periodontal diseases Physiotherapy in the treatment of diseases of the mucous membrane of the oral cavity.
The main algorithms for the use of physical factors in the treatment of various dental diseases.	Physiotherapy of inflammatory processes in the maxillary area. Physiotherapy of traumatic injuries of

the PMO. Physiotherapy of neurostomatological
diseases Physiotherapy of TMJ diseases.
Physiotherapy of diseases of the salivary glands.

I.V. Bagdasarova name and surname M.K. Makeeva

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Prevention and Public Dental Health
Course Workload	Credits and academic hours – 7 credits (252
	a.h.)
Course	contents
Course Module Title	Brief Description of the Module Content
Basics of sanitary and anti-epidemic regime in	The main provisions of sanitation and hygiene.
dentistry. Providing first emergency dentist in	System of medical care in the Russian
ambulatory conditions of reception.	Federation. Principles of organization of dental
Diagnostic methods used in dentistry.	care, conducting medical examination of patients
Examination of dental patient.	with dental disease. Etiology, pathogenesis,
Epidemiology of dental diseases. The prevalence	clinical manifestations and diagnosis of major
and intensity of dental diseases.	dental diseases. General and local factors that
	cause disease of the teeth and oral cavity,
	preventive measures aimed at preventing the
	occurrence of major dental diseases.
Prevention of congenital anomalies of the	Methods and caries prophylaxis of teeth, its
maxillofacial region. Activities aimed at the	complications, diseases of the hard tissues of
preservation and promotion of health and	origin of non-carious teeth. Methods and means
includes the formation of a healthy lifestyle.	of preventing periodontal diseases. Methods and
Organization of protection of the population in	tools for dental education, its goals, objectives,
the outbreak of especially dangerous infections,	means and modalities of. Fundamentals of dental
worsening of the radiation situation, natural	epidemiological survey of the population (goals,
disasters and other emergency situations.	objectives, milestones, methods of registration of
	results). Legal aspects of the work. The structure
	of tissues, organs and systems in relation to their
	function. Anatomic - physiological
	characteristics of the maxillofacial region in
	normal and pathological conditions.
Clinical examination, as a method for monitoring	. Fundamentals of types and methods of
the health of the population.	disinfection and sterilization. The
	epidemiological situation, the basic properties of
	the pathogen, transmission routes, risk groups,
	the main clinical manifestations, methods of

diagnosis, prevention and treatment of HIV
infection, hepatitis A. Organization of work,
equipment, tools, medicines, therapeutic,
surgical, orthopedic offices and surgeries, dental
health facilities. Modern filling materials. To be
able to give the sanitary and hygienic assessment
of environmental factors. Dental terminology.

Gvozdikova E.N.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Psychiatry and Narcology
Course Workload	Credits and academic hours $-2/72$
	Course contents
Course Module Title	Brief Description of the Module Content
General Psychiatry	Study of psychopathological symptoms and syndromes,
	analysis of patients with these syndromes, independent
	questioning of patients under the supervision of a teacher.
	Symptoms of the pathology of sensory cognition.
	Symptoms of memory pathology. Symptoms of the
	pathology of rational cognition. Symptoms of the
	pathology of emotions. Symptoms of the pathology of the
	volitional sphere and attention. The main
	psychopathological syndromes. Personality and the main
	forms of its pathology. Syndromes of negative
	psychopathological disorders. Syndromes of organic brain
	damage. Syndromes of impaired consciousness.
	Hallucinatory defusional syndromes. Catalonic and
	supdromes
Private Psychiatry and Nancology	Syndromes.
r rivate r sychiatry and warcology	mental disorders. Dementia and mild cognitive impairment
	Mental disorders due to brain injury Mental disorders in
	vascular diseases of the brain and neuroinfections
	Epilepsy, mental and behavioral disorders due to the use of
	drugs and psychoactive substances. Schizophrenia.
	schizotypal and delusional disorders. Schizophrenia,
	schizoaffective and schizotypal disorders. Acute and
	chronic delusional disorders. Affective disorders. Bipolar
	disorder. Recurrent depressive disorder. Dysthymia and
	cyclothymia. Neurotic and stress-related disorders. The
	concept of psychogenic disorders. Anxiety disorders.
	Dissociative and conversion disorders. Somatoform
	disorders. Other neurotic disorders. Behavioral syndromes
	associated with physiological disorders and physical
	factors. Personality disorders. Mental retardation (mental
	retardation). Disorders of psychological development.
	Conversation with patients. Writing a medical history.
Treatment of mental disorders	Study of the main psychopharmacological groups,
	acquaintance with the mechanisms of their action, side
	effects and the method of their correction. I reatment
	regimens for major diseases, emergency care in psychiatry.
	ivieinous for the treatment of mental filness. Psychotropic

	drugs. Psychotherapy: definition, basic methods of
	psychotherapy. Antipsychotics: definition, classification,
	spectrum of psychotropic action of antipsychotics. The
	main groups of antipsychotics, side effects. Tranquilizers.
	Definition, classification, spectrum of psychotropic action,
	side effects. Major tranquilizers. Complications and side
	effects of tranquilizer treatment. Antidepressants:
	Definition, Classification. Complications and side effects
	of antidepressant treatment. The main groups of
	antidepressants. The spectrum of action of antidepressants.
	Nootropics: definition, spectrum of action, main
	nootropics, side effects of nootropics. Psychostimulants,
	normotimics: definitions, action spectra, side effects and
	complications. The main groups of anticonvulsants. Side
	effects and complications of anticonvulsant treatment.
Medical psychology	The main mental processes and their features in various
	pathologies. Methods of pathopsychology. Tasks and goals
	of the work of a medical psychologist in the clinic of
	internal diseases, in a psychiatric clinic. Methods of
	pathopsychological research. Methods and types of
	psychological psychotherapy. Features of mental activity in
	organic diseases of the brain. Features of memory in
	organic brain diseases. Features of thinking in
	schizophrenia. Features of the emotional sphere and
	thinking in personality disorders. Features of the work of a
	psychologist with a cancer patient. Features of mental
	performance in patients with eating disorders. Features of
	thinking, emotions and memory in patients with epilepsy.
	Method of memorizing 10 words. The "Pictogram"
	technique. Methodology "Classification of objects".
	Features and purposes of using psychometric scales in the
	clinic of internal medicine and in a psychiatric clinic.
	Methodology "Excluding unnecessary". Writing
	coursework and medical history.

M.S. Artemieva

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I.E. Danilin name and surname

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A.Y. Ter-Israelyan

Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Psychology, Pedagogy
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
Introduction to Psychology	History of Psychology. The subject and methods of psychology. Branches of psychology. Categories of psychology. Functions of the psyche. Basic mental processes
Development of the psyche. Zoo psychology	Zoo psychology from ancient times to the creation of the first evolutionary doctrine. The main methods of zoo psychological research. The importance of zoo psychology in medicine
Sensation. Perception. Attention	Cognitive mental processes in the cognition of reality. Perception of objects, time of relations between objects of space, a person. Attention. Types of attention
Memory	Memory and its significance. Types of memory Basic memory processes and mechanisms. Individual features of memory. Typological features of memory. The importance of memory for human life
Thought process. Speech. Imagination	Development of thinking in ontogeny. Laws of logic and thinking. Thinking disorders. Pathopsychological and clinical classification of thinking disorders. Kinds of imagination. Pathological forms of imagination. Types and functions of speech. The ratio of thinking and speech. Speech disorders
Will	Will. The concept of the will. Volitional acts. Functions of the will. The development of the will in a person. Strong-willed personality traits
Emotions	The concept and classification of emotions. The James-Lange Theory. Emotions generated by the social environment. The role of emotions in the mental organization of a person
Personality. Motivation	The concept of personality in various psychological approaches. Personality structure. Levels, rules and ways of constructing psychological characteristics of personality. Analysis of general concepts about the

	orientation of the personality. Classification of needs in the orientation of the individual. Classification of motives in the orientation of the personality. Determination of the forms of orientation of the personality
Temperament. Character. Abilities. Intelligence	Types of temperament and their psychological characteristics. The role of temperament in activity. Character. Classification of character traits. Character types. Accentuation of character. Determination of abilities. Types of abilities. Structure of abilities. Ability levels. Talent. Inclinations and abilities. Inclination
Communication. Ethics. Deontology in Medicine. Clinical aspects of communication	Relationship levels: doctor - patient; doctor - nurse; doctor - doctor; nurse - patient; nurse - nurse; Doctor - Administration; doctor - junior medical staff

M.S. Artemieva

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A.G. Lazukova

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RUDN University

Institute of Medicine

educational division -faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Public Health and Healthcare
Course Workload	Credits and academic hours - 2 credits (72 academic
	hours)
Cours	e contents
Course Module Title	Brief Description of the Module Content
Module 1. Methods of analysis and assessment of	Public health and health care as a science and subject of
public health.	teaching. Research aimed at studying public health. Stages
	of medical/public health research. Evaluation of public
	health and the results of medical/public health research
	using statistical methods. Public health assessment.
	Analysis and assessment of morbidity and disability of the
	population. Medical and social aspects of demography.
	Demography. Mechanical movement of the population.
	The natural movement of the population.
Module 2. Management and organization of the work	Theoretical foundations and principles of healthcare
of medical institutions.	organization. Organization of outpatient and inpatient
Organization of the activities of the dental service.	care. Basic principles of organization of dental care to the
	population. Organization of the work of the dental clinic.
	Maternal and child health care system. Organization of
	dental care for children. Features of the organization of
	medical (including dental) care for the rural population.
	Fundamentals of economics, planning and financing of the
	dental service. Automated information systems in the
	management of healthcare institutions.
Module 3. Modern problems of maintaining health,	Modern problems of disease prevention and public health
disease prevention.	promotion. Participation of public organizations in the
	protection of public health. Family as an object of medical
	and social research and primary health care.

Developers:

E.V. Kaverina

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RUDN University Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Radiodiagnosis
Course Workload	Credits and academic hours $-3/108$
Course	contents
Course Module Title	Brief Description of the Module Content
The prevalence of cancer in Russia and in the world. Position dental oncological diseases in general dental oncology structure. Dental oncology: historical milestones and current status of the issue.	Morbidity and its tendency for major groups: oncology, dental oncology. Tumor. The symptoms of benign and malignant tumors in dentistry. Oncological alertness dentist. Dentist - a doctor of the first level in the diagnosis of cancer patients. The concept of "tumor". evidence benign and malignant tumors in dentistry. modern representation of the biological entity tumors. Predisposing factors of malignant tumors maxillofacial area.
Oncology in the practice of the doctor - dentist. Early diagnosis of squamous cell carcinoma oropharyngeal: principles, methods, effectiveness. Practical part: fence material for morphological studies.	The role of a dentist who owns Oncologic vigilance, as the "first contact" a doctor in detection and treatment of cancer patients. Dental Background of malignant tumors of the oral cavity, head and neck. General manual skills and securing the fence on the biological material from the mouth for morphological studies.
The role and place of a dentist in the antitumor treatment of cancer and dental oncological patients. Dental support of cancer patients in the clinic.	Interdisciplinary cooperation of a dentist and radiologist, oncologist on joint management of cancer patients. Features interventions in the mouth in patients receiving radiotherapy and chemotherapy at various stages of treatment.
Principles of combination therapy dental oncological patients.	Types of radiation treatment of cancer patients. Conformal radiotherapy in advanced treatment programs oropharyngeal tumors. Forms of chemotherapeutic treatment of cancer patients. Types of surgical treatment of patients with cancer. The combined antitumor treatment: indications and

	contraindications.
Types of complications arising in the mouth during the combined antitumor treatment. Xerostomia, dizgevziya, mucositis, nutritional deficiency, osteonecrosis, diagnostics, principles of treatment, prognosis.	The joint work of a doctor - dentist and doctor - radiologist, the oncologist for the treatment of combined treatment of complications. Optimization of approaches to the treatment of oral lesions in patients receiving combination therapy. Oral mucositis. Classification. Prevention and treatment of mucositis. Xerostomia and factors aggravating its course. Preparations of plant-based sustained-release in patients receiving radiotherapy and \ or chemotherapy. Nutritional support role in the treatment and prevention of oral mucositis with chemoradiotherapy. Substitution therapy in patients with the syndrome of "dry mouth" Dental lasers: applications and how they differ from traditional methods. Prevention of osteonecrosis of the jaw during surgical rehabilitation oral cavity in patients with malignant neoplasm different localization. ray method sin the diagnosis of osteonecrosis of various origins Clinical and radiological features of osteonecrosis of the jaw of various origins (beam, a bisphosphonate) in patients with malignant tumors.
Rehabilitation of cancer patients after combined	Types of rehabilitation of cancer patients (local,
treatment. Features denture cancer patients at the	general, anatomical and physiological, psycho-
present stage.	emotional, social). dental rehabilitation time frame
	depending
	the extent of intervention. The role of the doctor -
	dentist in charge of cancer patients with defects in the
	maxillofacial area. Ectoprostheses, implants, dentures
	complex.

Gvozdikova E.N.

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HEAD OF EDUCATIONAL DEPARTMENT Avanesov A.M.

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Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Russian as foreign language
Course Workload	Credits and academic hours $-3/216$
Course	contents
Course Module Title	Brief Description of the Module Content
Theme 1. The structure of an object	Identification of components of an object
	Complete set of components: complete/
	incomplete set of components.
	Presence / absence of a component
	(components) in the structure of an object:
	Quantitative characteristics of components of
	qualitative characteristics of components of
	an object.
	Localization of components in an object; place of a
	component in an object; mode of localization of a
	component in an object; arrangement of
	components in an object; connection of
	components in an object
	Qualitative and quantitative composition of the
	object.
Theme 2. Qualitative and quantitative	The shape, relief of the surface of the object:
abarratoristics properties of the object	the shape of the object: surface's relief of the
characteristics, properties of the object	object
	The consistency properties color teste small
	of an object: the color of an object: the teste
	of all object. the color of all object, the taste
	and smell of the object; object consistency,
	object properties.
	Quantitative characteristics of the object: the exact
	size of the object; fluctuations in the size of the
	object; maximum object size.
Theme 3. The function of the object	Function of the object.
	The essence of the function.

	Conditionality of the function of the object.
Theme 4. Classification of objects	Classes of objects.
	Characteristic of classification and classes of
	objects.
	Members of object's class.
Theme 5. General characteristics of the object	Structure of a microorganism.
	Localization of a biological object.
	Mode of nutrition of an organism.
	Mode of reproduction of an organism.
Theme 6. Development (life-cycle) of a biological	Host of a parasitic microorganism.
object	Stages of life-cycle / development of a
	microorganism.
	Processes of a stage of a life-cycle.
Theme 7. General characteristic of a disease caused by pathogenic microorganism	Identification of a disease caused by pathogenic microorganism.
	Area of the disease activity.
	Ways and conditions of infecting.
	Symptoms and signs of a disease.
	Clinical outcome.
	Disease prevention.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Russian Language (Professional Level)
Course Workload	Credits and academic hours $-2/72$
Course contents	
Course Module Title	Brief Description of the Module Content
Theme 1. General characteristic of a	Definition of a process.
physiological process	Classification of processes.
	Essence of a process.
	Stages of a process.
Theme 2. Main mechanisms of a process	Alteration of qualitative and quantitative
	characteristics of an object.
	Appearance (birth) and disappearance
	(destruction, death) of a new object.
	Change of localization of an object (movement).
Theme 3. Alteration dynamics of process	Alteration in the intensity of the process.
	Violation and termination of the process.
Theme 4. Role of the physiological process	The significance of the process. The
	characteristic of the benefit / harm of the
	physiological process for the organism.

Developers:

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Russian Language and Speech Culture
Course Workload	Credits and academic hours $-3/108$
Course contents	
Course Module Title	Brief Description of the Module Content
CULTURE OF ACADEMIC AND SCIENTIFIC	Russian language and speech. A culture of speech. Types
COMMUNICATION	of communication: academic, scientific etc. The basic
	concepts of the course.
	Literary language, literary and linguistic norm.
	Types of norms.
	Speech and its characteristics.
	Speech influence.
	The methods of persuasion.
	The basic norms and rules of non-verbal and verbal
	etiquette.
CULTURE OF PROFESSIONAL COMMUNICATION	Professional communication: the essence, features, innovative technology tools. Communicative portrait of a specialist.
	Oral professional communication: general concept, the
	basic communication forms and signs.
	Written speech of a doctor.
	Innovative informational and communicative technologies
	of a professional interaction.
	Tolerant intercultural professional communication: the
	basic principles and strategies.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Russian language for foreign students
Course Workload	Credits and academic hours – 20/720
Course contents	
Course Module Title	Brief Description of the Module Content
Theme 1. Etiology of stomatological disease (pathological state)	Connection between a factor and a pathological condition; the possibility of communication between the factor and the occurrence of a pathological state. The cause of the pathological state; the condition of the pathological state's appearance.
Theme 2. The development of dental disease (pathological state)	Dynamics of the pathological process. The object's change of the size, color and shape; treatment and destruction of an object. Process violation; the relationship between processes and phenomena; the nature of the impact of the processes; proportional change
Theme 3. Clinical picture of dental disease	Subjective complaints of the patient; objective data on the clinical manifestations of the disease; clinical manifestations identified using instrumental methods of examination.
Theme 1. Methods of examination of the patient with dental problems	Purpose of the examination method; the object of study; the means (instrument) with which the examination is carried out; the value of the survey method.
Theme 2. Dental disease treatment methods	Essence of the method of treatment; the purpose of the treatment method; scope of treatment method.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Science of Dental Materials
Course Workload	Credits and academic hours - 4/144
Course contents	
Course Module Title	Brief Description of the Module Content
1.Module Materials science in prosthetic dentistry	Topic 1.1. Dental materials science as a practical science of materials used in the work of a dentist. Classification and physicochemical properties of materials used in dentistry. Basic dental
	Standardization according to GOST. Topic 1.5. Polymeric materials, their use in dentistry, classification, physicochemical properties, composition. The technology of work with plastic, safety. Topic 1.6. Metals and alloys used in prosthetic dentistry. Classification, physicochemical properties. Topic 1.7. Dental porcelain. Ceramics. Classification, physicochemical properties, composition. <u>Application in dentistry.</u> Topic 1.8. Colloquium 1.

2 Module	Topic 2.1 Classification of materials used in
Materials science in Conservative dentistry	restorative dentistry. Classification of filling materials
Waterials science in Conservative denusury.	quality standards, physicochemical and biological
	properties, composition, Requirements for filling
	properties, composition. Requirements for fining
	Cilling and line and the size the size of the second secon
	fillings and liners, physicochemical properties.
	Methods of preparation.
	Topic 2.2. Classification of mineral cement,
	physicochemical properties. Methods of preparation.
	Topic 2.3. Classification of polymer cement, Physico-
	chemical properties. Methods of preparation.
	Topic 2.4. Chemical and light cured composite filling
	materials. Classification, physicochemical
	properties, composition.
	Topic 2.5. Adhesive system (generations of adhesive
	systems). physicochemical properties and
	composition.
	Topic 2.6. Metals and their alloys used for dental
	fillings. Classification, physicochemical
	properties, composition. Method of amalgam
	preparation. Safety and hygiene requirements
	when working with amalgam.
	Topic 2.7 Root canal filling materials Classification
	of sealer and fillers indication for use
2 Modula	Topia 2.1. Meterials in surgical dentistry. Materials for
Materiala science in surgical dentistry	surgical sutures. Surgical peodles, Dequirements
iviateriais science in surgical dentisury.	Surgical surgical needles. Requirements.
	Terris 2.2. Colleguium 2
	Topic 3.2. Colloquium 2.
	Topic 3.3. Final colloquium.
	Total: 18 lessons (1 course - 2 semester).

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Z.A. Guryeva

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

Course Title	Surgical diseases
Course Workload	Credits and academic hours $-3/108$
Course contents	
Course Module Title	Brief Description of the Module Content
Particular issues of surgery	1. Appendicitis. Acute appendicitis. Clinic. Diagnostics. Treatment. Complications
	of appendicitis. Clinic. Diagnostics. Treatment. Chronic appendicitis. Clinic. Differential diagnosis. Indications for surgery.
	2. Hernias. The General notion about hernias. Types of hernias. Inguinal hernia. Congenital inguinal hernias. Femoral hernias. Umbilical and hernia of the white line of the abdomen. Anatomy. Differential diagnosis Clinic. Surgical treatment. Strangulated hernia. Views. Clinic. Diagnostics. Treatment. Clinic, diagnosis. Features of operational equipment.
	 3. Bowel disease. Crohn disease. Ulcerative colitis. Clinic. Diagnostics. Treatment. Complications. Diverticulosis of the large intestine. Complications. Diagnostics. Treatment. Colon cancer. Clinic. Diagnostics. Treatment.
	4. Breast disease. Benign breast tumors.Views. Method of treatment.Breast cancer. Classification. Clinic.Diagnosis, treatment.
	5. Liver disease. Liver cancer. Views. Diagnostic method. Treatment. Portal hypertension syndrome. Cirrhosis. Diagnostics. Complications. Clinic. Treatment. Echinococcus of the liver. Species. Diagnosis. Treatment.

6. Diseases of the stomach and duodenum. Gastric and duodenal ulcer. Conservative therapy. Indications for surgical treatment. Methods of surgical treatment. Complications of duodenal ulcer. Clinic. Diagnostics. Treatment. Stomach cancer. Classification. Clinic. Diagnostics. Type of operation. Cancer of papilla Fateri. Clinic. Diagnostics. Treatment.

7. Diseases of the rectum. Hemorrhoids. Complications. Diagnostics. Treatment. Benign tumors of the rectum. Clinic. Diagnostics. Treatment. Rectal cancer. Diagnostics. Treatment.

3. Vascular disease. Varicose disease.

8. Diagnostics. Clinic. complications. Treatment. Atherosclerosis of vessels of the lower extremities. Clinic. Diagnostics. Treatment. Differential diagnosis of Complications. atherosclerosis and obliterating endarteritis of the lower extremities. Thyroid disease. Thyrotoxic goiter. 9. Clinic. Diagnostics. Treatment. Clinic. Graves' disease. Diagnostics. Treatment. Endemic goiter. Classification, diagnosis. Treatment, prevention. Complications of thyroid surgery. 10. Calculous cholecystitis. Acute cholecystitis. Clinic. Diagnostics. Treatment. Complications of cholecystitis. Chronic cholecystitis. Clinic. Diagnostics. Treatment. Type of operation. 11. Intestinal obstruction. Classification. Clinic. Methods of conservative and surgical treatment. Mechanical and dynamic intestinal obstruction. Classification. Reasons. Views. Clinic. Diagnostics. Treatment.

12. Mechanical jaundice. Reasons. Diagnostic method. Treatment.

13. Pancreatitis. Acute pancreatitis. Classification. Clinic. Diagnostics. Treatment. Complications.Chronic pancreatitis. Classification. Clinic. Methods of diagnosis and surgical treatment.

14. Peritonitis. Classification. Etiopathogenesis. Clinic. Treatment. Ways to reduce mortality.
15. Special research methods. Methods of endoscopic diagnosis of diseases of the digestive system. Modern methods of early diagnosis of tumors of the digestive tract. X-ray contrast methods for the study of bile ducts.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2023-2024

Course Title	Telemedicine	
Course Workload	Credits and academic hours $-1/72$	
Course contents		
Course Module Title	Brief Description of the Module Content	
Section 1 Introduction to telemedicine	Topic 1.1 Basic term. the goals of telemedicine today	
	Topic 1.2 The telemedicine as a new form of healthcare organization	
Section 2 Technological equipment of telemedicine activities.	Topic 2.1 Practical experience of leading telemedicine centers.	
	Topic 2.2 An encoding and decoding information standards	
Section 3		
Scenarios of telemedicine activities	Topic 3.1 Ethical and deontological aspects of telemedicine	
	Topic 3.2 Hardware and software of telemedicine	

Developers:

	V. Fedorov
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	M. Amcheslavskaya
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COURSE DESCRIPTION

31.05.03 Dentistry field of studies / speciality code and title

Course Title	Cone Beam Computed Tomography in the Diagnosis	
	Planning and Evaluation of the Effectiveness of	
	Dental Solutions	
Course Workload	Credits and academic hours - 2 (72 hr.)	
Course contents		
Course Module Title	Brief Description of the Module Content	
Cone beam computed tomography in the	Radiation methods for examining dental patients:	
practice of a dentist	Basic examination methods in dentistry	
	Additional examination methods in dentistry: dental	
	radiography and orthopantomography	
	Additional examination methods in dentistry: cone	
	beam computed tomography	
	Main advantages and disadvantages of each method	
Radiation safety during CBCT. Errors	Issues of radiation safety. SanPin norms. Rules for	
and shortcomings of CT, ways to	conducting radiological examination methods	
eliminate them	Risk groups during research (pregnant women and	
	children)	
	Objective and subjective errors of computed	
	tomography. Artifact concept. Types of artifacts,	
	ways to eliminate them.	
X-ray anatomy according to CBCT	Visualization of important anatomical structures of	
	the maxilla and mandible for dental treatment	
	planning	
	Determination of types of bone density according to	
	CT data	
X-ray semiotics according to CBCT data	Diagnosis of caries and its complications.	
at the therapeutic and periodontal	Evaluation of the canal-root system of teeth	
reception	according to CBCT. Malformations and features	
	Diagnosis of complications of endodontic treatment	
	X-ray picture of apical periodontitis	
	The structure of the periodontium. Determination of	
	bone pockets and lesions of the furcation zone	
	according to CBCT data.	
X-ray semiotics according to CBCT data		
at surgical and ENT appointments	Diagnosis of anomalies of teeth and jaws.	

	Visualization principles
	Planning of dental implantation. Isolation of the
	mandibular canal according to CBCT data
	Determining the volume of bone tissue in matters of
	bone augmentation
	CB pathology and normal structure of the paranasal sinuses according to cone beam computed tomography
X-ray manifestations of osteomyelitis of	
various origins.	The concept of osteomyelitis. Classification, types of
	osteomyelitis. Acute, primary chronic and secondary
	chronic osteomyelitis of the jaws. Osteoradionecrosis
	and drug-induced necrosis of the jaws
	Osteomyelitis of drug addicts. Features of the x-ray
	picture.

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E.N.Gvozdikova

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