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PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
NAMED AFTER PATRICE LUMUMBA
RUDN University
Institute of Medicine

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Aesthetic Restoration of Teeth
Course Workload	Credits and academic hours – 2/72
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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COURSE DESCRIPTION

31.05.03 Dentistry
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2024-2025

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

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COURSE DESCRIPTION

31.05.03 Dentistry
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2024-2025

Course Title	**Bases of translation**
Course Workload	Credits and academic hours – 2 / 72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. The written medical interpretation: the nature, functions, specifics	Topic 1.1 Subject, tasks and methods of translation theory. Translation theory as a scientific discipline. Topic 1.2. The essence and specificity of medical translation. Place, role, functions of medical translation in professional communication of medical specialists.
Section 2. Actual problems of the theory of written medical translation and their role in the optimization of translation practice.	Topic 2.1. The concept of translation activity, professional translation competence. Topic 2.2. Problems of quality of professional translation. Factors affecting the quality of translation activities.
Section 3. Moral and ethical foundations and requirements for the work of a professional translator	Topic 3.1 The concepts of "ethics", "morality", "morality". The moral code of the translator. IMIA code of ethics. Topic 3.2. Ethics and etiquette, ethics and law in the field of written medical mediation.
Section 4. Typical situations of written meditative communication	Topic 4.1. Types of written medical translation in the context of the purposes and conditions of written translation activities. Topic 4.2. "The author's factor" of the medical source text. "Destination factor".
Section 5. Professionally oriented medical text / discourse and its genres as an object of translation	Topic 5.1. Mastering the genres of professionally oriented medical text / discourse in translation: scientific medical text; popular science text; instruction; advertising text; business letter. Topic 5.2. Mastering the genres of medical documentation in written professional translation.

Section 6. External means (resources) of translation work. Information retrieval strategies and techniques	Topic 6.1. Classification of a translator's aids: dictionaries, encyclopedias, electronic sources, Internet resources, analogical texts. The General concept of the typology of dictionaries. Topic 6.2. 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.
Section 7. Electronic support of professional-oriented translation work	Topic 7.1. Technical means of translation. Using machine translation to work with professionally oriented medical text / discourse. Topic 7.2. Electronic dictionaries and reference books: types, strategies of work.
Section 8. Cross-cultural aspects of medical translation	Topic 8.1. Translation as a process of mediated intercultural interlingual communication. Topic 8.2. The problem of translation. The Language picture of the world and translation.
Section 9. Linguistic aspects of written medical translation. Lexical-semantic and grammatical transformations	Topic 9.1. Transfer of pragmatic meanings. Classification of types of pragmatic meanings (L.S. Barkhudarov). The role of pragmatic meanings in the translation process. Pragmatic aspect of translation. Topic 9.2 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 9.3 Context and situation in translation. Topic 9. 4. Translation transformations.
Section 10. Stylistic aspects of medical translation. The editing of the translated text	Topic 10.1. Stylistic features of medical texts of different genres. Topic 10.2. Strategies and tactics of translation text editing, methods and means of prevention and correction of errors in written medical translation.

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COURSE DESCRIPTION

31.05.03 Dentistry
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2024-2025

Course Title	Bioelements in Medicine
Course Workload	Credits and academic hours – 2 / 72
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 diseases; sources. 9. Macroelements (sulfur, potassium, sodium, calcium, magnesium, phosphorus): role in the organism; suction; 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.

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31.05.03 Dentistry

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2024-2025

Course Title	Biological Chemistry - Biochemistry of the Oral Cavity
Course Workload	Credits and academic hours – 6/216
Course contents	
Course Module Title	**Brief Description of the Module Content**
Course 1. Basic molecules - components of living systems	**Topic1.1.** Introduction to biochemistry. Proteins: structure, properties, functions
	Topic 1.2. Complex proteins, nucleic acids, lipids
	Topic 1.3. Enzymes
	Topic 1.4. Vitamins
	Topic 1.5. Hormones
Course2 Metabolism and energy	**Topic 2.1.** Introduction to metabolism. Biological oxidation
	Topic 2.2. Metabolism of carbohydrates
	Topic 2.3. Lipid metabolism
	Topic 2.4. Metabolism of amino acids and proteins. Complex protein metabolism.
Course 3 Biochemistry of body fluids	**Topic 3.1.** Biochemistry of blood and urine
	Topic 3.2. Biochemistry of oral fluids
	Topic 3.3. Biochemistry of inflammation
	Topic 3.4. Biochemistry of digestion
Course 4 Biochemistry of connective tissue	**Topic 4.1.** Biochemistry of the main proteins of connective tissue
	Topic 4.2. Biochemistry of the main non-protein components of the connective
	Topic 4.3. Biochemistry of mineralized tissues

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2024-2025

Course Title	Biology
Course Workload	Credits and academic hours – 5/180
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1 Introduction to Biology. The cell as a unit of life	Topic 1.1. The cell as a unit of life
	Topic 1.2. The chemical components of a cell. The structure and functions of the cell membrane.
Module 2 Genetic material. Structure and functions of nucleic acids	Topic 2.1. Structure and functions of nucleic acids. Genetic code
	Topic 2.2. DNA replication. Gene mutations
	Topic 2.3. Variability of living things. Chromosomal and gene mutations. DNA repair
Module 3 Gene expression	Topic 3.1. Synthesis of RNA molecules in prokaryotic cells. Control of gene expression in prokaryotes. Operon
	Topic 3.2. Synthesis of RNA molecules in eukaryotic cells. Processing of RNA molecules
	Topic 3.3. Translation in prokaryotic and eukaryotic cells
	Topic 3.4. Genetic material of viruses, prokaryotes and eukaryotes. Chromosomal and extrachromosomal DNA. Mobile genetic elements
Module 5 Concepts of Genetics	Topic 5.1. Law of segregation. Interaction of allelic genes
	Topic 5.2. Law of independent assortment. Interaction of non-allelic genes
	Topic 5.3. Sex-linked inheritance
	Topic 5.4. Inheritance of linked genes. Genetic analysis
Module 6 Human Genetics	Topic 6.1. History of Genetics
	Topic 6.2. Human Genetics. Human genome
	Topic 6.3. Chromosomal diseases
	Topic 6.4. Gene diseases
	Topic 6.5. Non-Mendelian diseases
	Topic 6.6. Genetic engineering. Gene therapy
	Topic 6.7. Methods in Human Genetics. Pedigree

	analysis. Twin study
	Topic 6.8. Cytogenetic method. Population study
	Topic 6.9. Methods of Molecular Genetics
Module 7 Medical Parasitology	Topic 7.1. Basic concepts of medical parasitology
	Topic 7.2. Subkingdom Protozoa. Phylum Sarcomastigophora. Class Rhizopoda
	Topic 7.3. Class Zoomastigophorea
	Topic 7.4. Phylum Apicomplexa, Class Sporozoa. Phylum Ciliophora, Class Ciliata
	Topic 7.5. Phylum Platyhelminthes. Class Trematoda
	Topic 7.6. Class Cestoda
	Topic 7.7. Phylum Nemathelminthes. Class Nematoda. Geohelminths
	Topic 7.8. Class Nematoda. Biohelminths
	Topic 7.9. Phylum Arthropoda. Subphylum Branchiata, class Crustacea. Subphylum Chelicerata, class Arachnida
	Topic 7.10. Subphylum Tracheata, Class Insecta, order Diptera
	Topic 7.11. Subphylum Tracheata, Class Insecta, human parasites
Module 8 Evolution of the organic world. Anthropogenesis	Topic 8.1. History of evolutionary ideas
	Topic 8.2. The main points of the modern evolution theory
	Topic 8.3. Anthropogenesis
Module 9 Man and the Biosphere	Topic 9.1. Man and the Biosphere

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COURSE DESCRIPTION

31.05.03 Dentistry

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2024-2025

Course Title	Chemistry
Course Workload	Credits and academic hours - 3 / 108
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Introduction Hydrocarbons.	Topic 1.1. Goals for studying chemistry. Demonstration of the interdisciplinary nature of the discipline, formed on the scientific basis of organic chemistry and biology. Familiarization with the basics of the structure and reactivity of organic compounds. Familiarization with the classification and nomenclature of organic substances. Formation of skills for applying the rules of nomenclature.
	Topic 1.2. Familiarization with reactivity of hydrocarbons – alkanes, alkenes, alkynes, dienes and arenes. Formation of practical skills for detecting multiple bonds in the analyzed object.
Module 2. Functional organic compounds	Topic 2.1. Familiarization with reactivity of alcohols (monoatomic and polyatomic), phenols and thiols. Demonstration of acidic, nucleophilic properties of these classes of organic compounds. Biological role of sulfonium salts (S-adenosyl methionine) and thioether (acetyl coenzyme). Oxidation of alcohols and thiols with emphasis on the biological significance of such processes.
	Topic 2.2. Familiarization with reactivity of aliphatic and aromatic amines, aminoalcohols and their biological significance. Practical and biological significance of reactions amines with nitrous acid, carcinogenicity of nitrosoamines. .
	Topic 2.3. Familiarization with reactivity of aldehydes and ketones. Nucleophilic addition, oxidation, reduction (including enzymatic), reaction via α-position
	Topic 2.4. Familiarization with reactivity of carboxylic acids. Preparation of carboxylic acid derivatives and study of their properties. Biological role of carboxylic acid derivatives on the example of lipids. Biological important dicarboxylic acids. Practical study of

Course Title	Chemistry
Course Workload	Credits and academic hours - 3 / 108
Course contents	
Course Module Title	**Brief Description of the Module Content**
	structures of fats and oils via hydrolysis and the use of previously acquired skills for identification of hydrolysis products.
	Topic 2.5. Familiarization with reactivity of hydroxyl acids. Structure and chemical transformations of hydroxy acids, the participants of metabolism – lactic, malic, citric acids. Demonstration of concept of stereochemistry - chiral carbon atom, configuration, chirality and chiral center.
	Topic 2.6. Familiarization with reactivity of oxo acids. Structure and properties of oxo acids, the participants of metabolism – pyruvic acid, oxalacetic acids.
Module 3. Bio-polymers (proteins and carbohydrates) and their components.	Topic 3.1. Familiarization with structure and chemical properties of amino acids. Stereoisomerism of amino acids. Biologically important reactions. Peptides and proteins. Hydrolysis of proteins. Definition of complex proteins. glycoproteins, lipoproteins, nucleoproteins, phosphoproteins. A practical demonstration of the amphoteric character of amino acids. Formation of practical skills for the detection of amino acids and proteins by chemical methods.
	Topic 3.2. Familiarization with the structure and chemical properties of monosaccharides on the example of the most important ones from a biological point of view. Familiarization with the chemical properties and structure of disaccharides. Familiarization with the chemical properties and structure of polysaccharides. The biological significance of carbohydrates.
Module 4. Biologically important heterocycles	Topic 4.1 Familiarization with the main classes of biologically significant heterocyclic compounds. The structure of porphin and heme. Keto-enol and lactim-lactam tautomerism on the example of uracil, thymine, cytosine, guanine, uric acid.
Module 5. Nucleic acids. Nucleotide coenzymes.	Topic 5.1 Familiarization with the structure of nucleic acid monomers. Nucleosides, hydrolysis. Nucleotides, hydrolysis. RNA and DNA. The primary structure of nucleic acids. Hydrolysis. Nucleotide coenzymes AMP, ADP, ATP, NAD+, NADP, NADH+ S-adenosylmethionine, acetyl-coenzyme, FAD, $FADH_2$, their transformations in the body - phosphorylation, oxidation, reduction, methylation, acylation.
Module 6. Physico-chemistry of macromolecular compounds.	Topic 6.1 Polymers. The concept of medical polymers. Properties of HMS solutions. Features of the dissolution of HMS s as a consequence of their structure. The shape of macromolecules. The mechanism of swelling and dissolution of the HMS. Dependence of the swelling value on various factors. Anomalous viscosity of HMS solutions. 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

Course Title	Chemistry
Course Workload	Credits and academic hours - 3 / 108
Course contents	
Course Module Title	**Brief Description of the Module Content**
	blood serum. Stability of biopolymer solutions. Salting out biopolymers from solution. Coacervation and its role in biological systems. Gelation of HMS solutions. Jelly properties: syneresis and thixotropy.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course title	Clinical pharmacology
Course workload	Credits and academic hours – 2/72
Course contents	
Course Module Title	**Brief Description of the Module Content**
1. General issuesof clinical pharmacology.	1.1. Subjects and tasks of clinical pharmacology. Clinical research. Principles ofevidence-based medicine. 1.2. Fundamentals of clinical pharmacokinetics. 1.3. Fundamentals of clinical pharmacodynamics. 1.4. Drug interactions. 1.5. Drug safety. Adverse drug reactions.
2. Clinical and pharmacological approaches to rationalpharmacotherapy in routine dentistry practice and in emergency situations.	2.1. Clinical pharmacological approaches to choosing and prescribing antibacterialdrugs 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 antisepticdrugs and irrigants in dentistry practice. 2.4. Clinical pharmacological approaches to choosing and prescribing analgesicdrugs 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 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 inurgent and life-threatening conditions in dentistry practice.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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

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COURSE DESCRIPTION

31.05.03 Dentistry

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2024-2025

Course Title	Chemistry of biogenic elements
Course Workload	Credits and academic hours – 2 / 72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Forms of finding metal cations in living systems. Coordination compounds.	General concepts of the chemistry of 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. Buffer solutions.	The concept of pH. Changes in pH in neutral, 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 cations in living systems. Colloidal solutions	Soluble and insoluble forms, including 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 analysis in bioinorganic chemistry	The concept of qualitative analysis. Group and specific reactions of cations and anions. Quantitative titrimetric analysis and its application in bioinorganic chemistry

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31.05.03 Dentistry

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2024-2025

Course Title	Clinical trials
Course Workload	Credits and academic hours - 2 /72
Course contents	
Course Module Title	**Brief Description of the Module Content**
1. Clinical trials (CTs). Types.	1.1 Phase I, II, II, IV clinical trials 1.2 Case-control studies, cohort studies, randomized placebo-controlled clinical trials. Retrospective and prospective clinical studies. Main differences, requirements for implementation, significance for clinical practice.
2. Regulations for planning and conducting CTs.	2.1 Legislative regulation of the field of CTs. 2.2 Data management within CT (data management), data entry check and validation. 2.3 Data collection and management. Data protection. CT monitoring. 2.4 Completion of CI. Final report and publications. Archiving.
3 The importance of pharmacokinetics and pharmacodynamics of drugs for CTs.	3.1 Pharmacokinetic studies. Bioequivalence studies. 3.2 Pharmacodynamics. Implications for drug development.
4 Pharmacoepidemiologic trials.	4.1 Basic principles of pharmacoepidemiologic trials.
5 Pharmacoeconomic trials	5.1 Features of conducting pharmacoeconomic studies
6 New molecular targets for pain treatment	6.1 New molecular targets for pain treatment
7 New molecular targets for the treatment of inflammation	7.1 New molecular targets in the treatment of inflammation of various origins (cytokines and cytokine receptors, chemokines, pathway JAK/STAT)
8 Novel antibacterial agents to treat infectious diseases	8.1 Antimicrobial peptides (AMPs) - candidates for countering multidrug-resistant pathogens. ‘Selectively targeted AMPs" (STAMP)

	8.2 Oxepanoprolinamides, spiropyrimidinetrions, new bis-benzimidazoles, new fluoroquinolones, glycylcyclines, and lipopeptides. 8.3 Pathogen-specific monoclonal antibodies.

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31.05.03 Dentistry

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2024-2025

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 practice of a dentist	Radiation methods for examining dental patients: 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 and shortcomings of CT, ways to eliminate them	Issues of radiation safety. SanPin norms. Rules for conducting radiological examination methods 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 at the therapeutic and periodontal reception	Diagnosis of caries and its complications. Evaluation of the canal-root system of teeth 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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31.05.03 Dentistry

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2024-2025

Course Title	**Dental modeling of teeth**
Course Workload	Credits and academic hours – 2\72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. Dental modeling of teeth	Topic 1.1. The anatomy of teeth. Groups of teeth by functional feature. Occlusion. Types and shape of dental arches. Principles of the structure of dental arches. Types of dentition rows. Articulation, its effect on the row of dentition, and the anatomical shape of teeth. Functional flatness (Spee, Wilson)
	Topic 1.2. Types of restoration in dental practice, where it is necessary to use modeling skills and knowledge of the anatomy of teeth and dentition.
	Topic 1.3. Rules and features of modeling the shape of the central incisor of the upper jaw. Modeling from sculptural plasticine.
	Topic 1. 4. Rules and features of modeling the shape of the central incisor of the lower jaw. Modeling from sculptural plasticine.
	Topic 1.5. Rules and features of modeling the shape of the central incisor of the lower jaw. Modeling from sculptural plasticine.
	Topic 1.6. Rules and features of modeling the shape of the lateral incisor of the lower jaw. Modeling from sculptural plasticine.
	Topic 1.7. Rules and features of modeling the shape of the canines of the upper jaw. Modeling from sculptural plasticine.
	Topic 1.8. Rules and features of modeling the shape of the canines of the lower jaw. Modeling from sculptural plasticine.
	Topic 1.9. Rules and features of modeling the shape of the first premolar of the upper jaw. Modeling from sculptural plasticine.

	Topic 1.10. Rules and features of modeling the shape of the second premolar of the upper jaw. Modeling from sculptural plasticine.
	Topic 1.11. Rules and features of modeling the shape of the first premolar of the mandible. Modeling from sculptural plasticine.
	Topic 1.12. Rules and features of modeling the shape of the second premolar of the mandible. Modeling from sculptural plasticine.
	Topic 1.13. Rules and features of modeling the shape of the first molar of the upper jaw. Modeling from sculptural plasticine.
	Topic 1.14. Rules and features of modeling the shape of the second molar of the upper jaw. Modeling from sculptural plasticine.
	Topic 1.15. Rules and features of modeling the shape of the first molar of the mandible. Modeling from sculptural plasticine.
	Topic 1.16. Rules and features of modeling the shape of the second molar of the mandible. Modeling from sculptural plasticine.
	Topic 1.17. The final lesson. A credit class.
	In total: 17 lessons (1 year –1st semester).

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	**Disaster Medicine**
Course Workload	Credits and academic hours – 3 / 108
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.
	Topic 1.2. Method of active surgical treatment of purulent 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 emergency 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. Rreconstructive and plastic surgery in purulent surgery. Autodermoplasty. Wound plasty with local tissues.	**Topic 3.1.**Classification of reconstructive and plastic surgeries.
	Topic 3.2. Autodermoplasty: types, technique, indications 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 affected by emergency hazardous chemicals (in the focus, outside the focus of chemical damage).
	Topic 4.3. Work in a playful way in a simulation environment according to clinical scenarios using standard medical equipment and improvised means for immobilizing and transporting victims.

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

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**
The prevalence of cancer in Russia and in the world. Position onkostomatologicheskih diseases in general onozabolevaemosti structure. Onkostomatologiya: historical milestones and current status of the issue.	Morbidity and its tendency for major groups: oncology, onkostomatologiya.Ponyatie 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.
Onkology 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. Exploration of 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 onkostomatologicheskih 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 onkodentistry patients.	Types of radiation treatment of cancer patsentov. 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.	The joint work of a doctor - dentist and doctor - radiologist, the oncologist for the treatment of

Xerostomia, dizgevziya, mucositis, nutritional deficiency, osteonecrosis, diagnostics, principles of treatment, prognosis.	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 novoobrazlvaniyami different localization. ray methodsin 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 treatment. Features denture cancer patientsat the present stage.	Types of rehabilitation of cancer patients (local, general, anatomical and physiological, psycho-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. Ektoprotezy, implants, dentures complex.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course title	**Epidemiology**
Course workload	Credits and academic hours - 2 / 72
Course contents	
Course model 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. Epidemiological surveillance.	**2.1** L.V. Gromashevsky's role in the study about the 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 disease **3.2** 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 diseases.	**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. Epidemiology of socially significant infections.	**6.1** The content of this section is defined by the actual 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 prevention 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. Sanitary and anti-epidemic measures in emergency cases.	**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.

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

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

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Endodontics
Course Workload	Credits and academic hours – 6 / 216
Course contents	
Course Module Title	**Brief Description of the Module Content**
Inflammation of the tooth pulp. Pulpitis is acute and chronic.	Structure and functions of the pulp. Etiology, pathogenesis of inflammation of the tooth pulp. Classification of pulp diseases - ICD – 10. Clinic, diagnosis, differential diagnosis of acute and chronic pulpitis.
Methods of treatment of pulpitis	Biological method vital amputation. Indications and contraindications. Methods of treatment of pulpitis that do not preserve the viability of the pulp: devital pulp extirpation, vital extirpation of pulp. Indications. Endodontic instruments. Methods of processing and sealing of the root canal.
Inflammation of the apical periodontium.	Anatomical and physiological features of the periodontium. Etiology, pathogenesis of apical periodontitis. Classification of periodontitis MKB-10.
Apical periodontitis is acute and chronic.	Clinic, diagnosis, differential diagnosis of acute and chronic apical periodontitis.
Methods of treatment of periodontitis by visits.	Means and methods of endodontic treatment. Conservative surgical methods in endodontics. Complications and errors in endodontics, whitening of devital teeth.
Somatogenic the source of infection, focal diseases	Odontogenic sepsis.

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COURSE DESCRIPTION

31.05.03 Dentistry
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2024-2025

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 conditions and diseases	1. Emergency care in hypertension.
	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.

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COURSE DESCRIPTION

31.05.03 Dentistry
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2024-2025

Course Title	Economics
Course Workload	Credits and academic hours – 2 / 72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1 Intorduction	**Topic 1.1.** Introduction to Economics **Topic 1.2** General characteristics of market economy
Module 2 Microeconomics	**Topic 2.1.** Market of final goods and services. Supply and Demand **Topic 2.2. Consumer behavior** **Topic 2.3. Costs of production** **Topic 2.4. Market structure** **Topic 2.5. Market of resources**
Module 3 Macroeconomics	**Topic 3.1.** Introduction to macroeconomcis **Topic 3.2. Aggregate Demand and Aggregate Supply** **Topic 3.3. Economic growth and economic cycle** **Topic 3.4. Inflation and unemployment** **Topic 3.5. Fiscal and monetary policies**
Module 4 World Economy	**Topic 4.1. World economy and its evolution** **Topic 4.2. International economic relations** **Topic 4.3. Globalization** **Topic 4.4**. Key features of Russia's economy in transition

Developer:

Associate professor, Department of Political Economy		Kh.V Tyrkba
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Head of the Department:

Political Economy Department		E.V. Ponomarenko
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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Fundamentals of Russian statehood
Course Workload	Credits and academic hours – 2 / 72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. What is Russia?	1.1 The country in its spatial, human, resource, Ideological, symbolic and normativepolitical dimension. Objective and characteristic data about Russia, its geography, resources, economy. Population, culture, religions and languages. Current situation in Russian regions.
	1.2 Russia: trials and heroes. Outstanding personalities (“heroes”). Key trials and victories of Russia reflected in its modern stories.
Section 2. Russian as a civilization state	2.1 Civilization approach: opportunities and limitations. Historical, geographical, institutional foundations for the formation of Russian civilization. Conceptualization of the concept of “civilization”.
	2.2 Philosophical understanding of Russia as a civilization. The role and mission of Russia in the works of various domestic and foreign philosophers, historians, politicians, figures culture.
Section 3. The Russian worldview and the values of the Russian civilization	3.1 Worldview and identity. Value challenges of modern politics, Concept of worldview in social sciences.
	3.2 Value principles (constants) of Russian civilization. “Systemic model of

	worldview" and its representation.
Section 4. The Political structure of Russia	4.1 Fundamentals of the constitutional system of Russia. The principle of separation of powers and democracy. Features of the modern Russian political class.
	4.2 Genealogy of leading political institutions, their history, causes and consequences of their transformation. Levels of organization of power in the Russian Federation. State projects and their significance (key sectors, personnel, social sphere).
Section 5. Challenges of the future and Russia's development	5.1 Current challenges and problems of Russian development. Global trends and features of world development.
	5.2 Technological risks, environmental challenges and economic shocks. The sovereignty of the country and its place in the scenarios for the future development of the world and the Russian civilization.
	5.3 Scenarios for the development of Russian civilization. Stability, mission, responsibility and justice as value guidelines for the development and prosperity of Russia.

DEVELOPERS:

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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. Procedural and organizational issues of forensic medical examination. Inspection of the crime scene and examination of the corpse at the place of its discovery. Forensic thanatology (general and particular).	Topic 1.1. General overview of the structure and organization of the forensic medical service in the Russian Federation, the legal regulation of the forensic medical examination, the limits of its competence. Objects of forensic medical examination, methods of their expert research, diagnostic capabilities.
	Topic 1.2. Procedural and organizational forms of inspection of a corpse at the place of its discovery and participation of a medical specialist. The specifics of the inspection depending on the type, manner and cause of death. Medical and legal aspects of the statement of death, the establishment of the fact of the occurrence of human death. Early and late cadaveric changes. Artificial preservation of the corpse. The concept of the cause of death. Competing causes of death. Type of death, manners of violent death: murder, suicide, accident.
	Topic 1.3. Establishing of the time of death.
Module 2. Forensic medical examination of a corpse (forensic autopsy). Forensic medical examination of sudden death.	Topic 2.1. Reasons for forensic medical expertise (examination) of the corpse. Forensic medical documentation. Principles of formulating a forensic medical diagnosis and expert conclusions (expert opinion) based on autopsy findings. Registration of a medical death certificate (ICD).
	Topic 2.2. Forensic medical examination of sudden death.
Module 3. General forensic traumatology (thanatogenesis of death in various types of trauma), blunt trauma, fall from heights, vehicle trauma. Damages to the maxillofacial region in various types	Topic 3.1. The concept of injuries (bruises, abrasions, hematomas, wounds, fractures, etc.). Their mechanisms, morphological properties and distinctive features.

of trauma.	Topic 3.2. Vehicle injury, damage to health and death from physical factors.
	Topic 3.3. Features of thanatogenesis according to different external factors.
	Topic 3.4. Damages to the maxillofacial region due to these types of trauma
Module 4. Laboratory research methods in forensic medicine.	Topic 4.1. General overview of forensic biology.
	Topic 4.2. Examination of the evidence of biological origin (blood, semen, saliva, hair).
Module 5. Forensic medical examination of injuries due to sharp objects and gunshot injuries.	Topic 5.1. Mechanisms of formation, morphological properties and specific features of injuries due to sharp objects and gunshot injuries.
	Topic 5.2. Damages to the maxillofacial region due to these types of trauma.
Module 6. Forensic personal identification by dentition and related issues.	Topic 6.1. Personal identification in forensics, current problems and trends.
	Topic 6.2. Estimating sex and age by dentition. The identification of victims in a mass disaster.
Module 7. Forensic medical examination of living persons. Methods of estimation of the loss of general and professional working capacity. Medical professionals' legal responsibility for adverse effects resulting from medical care.	Topic 7.1. Forensic medical examination of victims, accused persons, etc. Qualifying signs of severe, moderate and light damage to health. Beatings, torment, torture. Estimating of the loss of general and professional working capacity. Forensic medical documentation.
	Topic 7.2. Forensic examination in cases of sexual crimes, forensic medical examination of the former pregnancy, childbirth.
	Topic 7.3. Forensic medical examination in criminal and civil cases of professional violations of health care specialists. Professional crimes of health care specialists. Board and complex forensic medical examinations.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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. Procedural and organizational issues of forensic medical examination. Inspection of the crime scene and examination of the corpse at the place of its discovery. Forensic thanatology (general and particular).	Topic 1.1. General overview of the structure and organization of the forensic medical service in the Russian Federation, the legal regulation of the forensic medical examination, the limits of its competence. Objects of forensic medical examination, methods of their expert research, diagnostic capabilities.
	Topic 1.2. Procedural and organizational forms of inspection of a corpse at the place of its discovery and participation of a medical specialist. The specifics of the inspection depending on the type, manner and cause of death. Medical and legal aspects of the statement of death, the establishment of the fact of the occurrence of human death. Early and late cadaveric changes. Artificial preservation of the corpse. The concept of the cause of death. Competing causes of death. Type of death, manners of violent death: murder, suicide, accident.
	Topic 1.3. Establishing of the time of death.
Module 2. Forensic medical examination of a corpse (forensic autopsy). Forensic medical examination of sudden death.	Topic 2.1. Reasons for forensic medical expertise (examination) of the corpse. Forensic medical documentation. Principles of formulating a forensic medical diagnosis and expert conclusions (expert opinion) based on autopsy findings. Registration of a medical death certificate (ICD).
	Topic 2.2. Forensic medical examination of sudden death.
Module 3. General forensic traumatology (thanatogenesis of death in various types of trauma), blunt trauma, fall from heights, vehicle trauma.	Topic 3.1. The concept of injuries (bruises, abrasions, hematomas, wounds, fractures, etc.). Their mechanisms, morphological properties and

Damages to the maxillofacial region in various types of trauma.	distinctive features.
	Topic 3.2. Vehicle injury, damage to health and death from physical factors.
	Topic 3.3. Features of thanatogenesis according to different external factors.
	Topic 3.4. Damages to the maxillofacial region due to these types of trauma
Module 4. Laboratory research methods in forensic medicine.	Topic 4.1. General overview of forensic biology.
	Topic 4.2. Examination of the evidence of biological origin (blood, semen, saliva, hair).
Module 5. Forensic medical examination of injuries due to sharp objects and gunshot injuries.	Topic 5.1. Mechanisms of formation, morphological properties and specific features of injuries due to sharp objects and gunshot injuries.
	Topic 5.2. Damages to the maxillofacial region due to these types of trauma.
Module 6. Forensic personal identification by dentition and related issues.	Topic 6.1. Personal identification in forensics, current problems and trends.
	Topic 6.2. Estimating sex and age by dentition. The identification of victims in a mass disaster.
Module 7. Forensic medical examination of living persons. Methods of estimation of the loss of general and professional working capacity. Medical professionals' legal responsibility for adverse effects resulting from medical care.	Topic 7.1. Forensic medical examination of victims, accused persons, etc. Qualifying signs of severe, moderate and light damage to health. Beatings, torment, torture. Estimating of the loss of general and professional working capacity. Forensic medical documentation.
	Topic 7.2. Forensic examination in cases of sexual crimes, forensic medical examination of the former pregnancy, childbirth.
	Topic 7.3. Forensic medical examination in criminal and civil cases of professional violations of health care specialists. Professional crimes of health care specialists. Board and complex forensic medical examinations.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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**
Section 1. Basics of clinical Gnathology (biomechanics of the dental system. Functional analysis of the dental system.	Topic 1.1.. Basics of Clinical Gnathology. Morphofunctional elements of the temporomandibular joint. Biomechanics of the masticatory system. Articulators and occluders, facebow. Methods for installing models into the articulator and adjusting it to an individual patient function.
	Topic 1.2. Occlusography. Articulation markers: spray, tape, paper. Hardware methods for monitoring the occlusion of the dentition.
	Topic 1.3. Digital methods. Axiography and functiography, diagnostic value. Computer methods for diagnosing occlusion.
Section 2. Diagnosis of occlusion-articulation pathology, diseases of the TMJ and masticatory muscles.	Topic 2.1. Etiology, clinic, pathogenesis of TMJ diseases. Classification of TMJ diseases requiring prosthodontic treatment. Functional state of the chewing and speech apparatus in TMJ diseases, hardware methods for examining patients with TMJ diseases. Differential diagnosis.
	Topic 2.2. Clinical methods for diagnosing musculo-articular dysfunction.
	Topic 2.3. The functional state of the masticatory-speech apparatus in TMJ diseases, hardware methods for examining patients with TMJ diseases. Differential Diagnosis
Section 3. Prosthetic stage of complex treatment of patients with pathology of occlusion, temporomandibular joint, chewing muscles.	Topic 3.1. Basic principles of complex treatment of patients with diseases of the temporomandibular joint and masticatory muscles. Therapeutic and diagnostic devices and prostheses. Types of occlusal splints.
	Topic 3.2. Tactics of managing patients with pathology of occlusion, TMJ, masticatory muscles. Stages of complex treatment

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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 the oral mucosa. Changes in the oral mucosa in dermatoses.	Herpes zoster. Etiology, pathogenesis, diagnosis, treatment. Quincke Edema. Drug allergy. Erythema multiforme 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.
Diseases of lips.	Exfoliative, allergic, glandular, eczematous cheilitis. Etiology, pathogenesis, clinic, diagnosis, treatment.
Precancerous diseases of the red border of the lips and oral mucosa. The condition of the oral cavity in elderly people. Features of treatment methods. Prevention of diseases of the oral mucosa.	Classification. Clinical picture, diagnosis, treatment, prevention. The condition of hard tissues of teeth, periodontal and oral mucosa in the elderly is normal and 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

2024-2025

Course Title	General Surgery
Course Workload	Credits and academic hours – 4 / 144
Course 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 Purulent diseases of soft tissues (furuncle, carbuncle, hydradenitis, erysipelas, abscess, phlegmon). Acute inflammation of lymphatic and venous vessels (lymphangitis, lymphadenitis, acute thrombophlebitis). Purulent inflammation of parotid glands and breast (acute parotitis, acute mastitis). Acute paraproctitis. Purulent diseases of fingers and hand. Osteomyelitis. Chest purulent infection (pleural empyema). Peritonitis.

	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

2024-2025

Course Title	Hygiene
Course Workload	Credits and academic hours - 3 / 108
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 concentrates. Food poisoning and its prevention.
Module 2. Communal hygiene.	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 basics for a healthy lifestyle.	Hygienic assessment of the physical 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.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Human Anatomy - Anatomy of Head and Neck
Course Workload	Credits and academic hours - 9 credits (324 hours)
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. Anatomy of body and organs	Topic 1.1. Anatomy of body
	Topic 1.2. Splanchnology
	Topic 1.3. Cardiovascular and lymphoid systems
	Topic 1.4. Nervous system
Section 2. Anatomy of head and neck	Topic 2.1. Structure of skull, muscles and fasciae of head and neck
	Topic 2.2. Anatomy of the oral cavity and teeth
	Topic 2.3. Brain and sense organs
	Topic 2.4. Cranial nerves and their areas of innervation

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	History of Religions in Russia
Course Workload	Credits and academic hours **- 2/72**
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Historical and Religious Studies Section	**Topic 1.1** What is religion. The role and significance of religion in history and in the life of society. Religiosity. Historically early forms of religion. Religions and denominations. Religion in non-written societies and in the Ancient World.
	Topic 1.2 Prehistory of Christianity: Middle East in the I millennium BC. Old Testament Judaism. Judaism of the Second Temple period. Formation and codification of the Old Testament canon. Judaism and antiquity. Modern Judaism.
	Topic 1.3 Emergence of Christianity. Formation of the New Testament canon. Creed. Christian doctrine. Ancient Eastern churches. Christianity before the separation of churches.
	Topic 1.4 The Great Schism. Features of Eastern and Western Christianity. World Orthodoxy. Catholicism. Protestantism. Local Orthodox Churches. Ancient Eastern Churches.
	Topic 1.5 Emergence of Islam. The Koran and the Sunna. Pillars of Islam and foundations of faith. Sunnism, Shiism, Kharijism, Sufism. Spread of Islam. Modern Islam.
	Topic 1.6 Buddhism: origins and main ideas. Theravada, Mahayana, Vajrayana. The main Buddhist texts. Buddhism in Tibet and Central Asia. Modern Buddhism.
	Topic 1.7 Religious situation in the modern world. New religious movements. Religious radicalism and extremism. Risks and threats in the religious sphere.
Module 2. Historical aspects of the formation of Russia as a multi-confessional state-civilization	**Topic 2.1.** From Ancient Russia to the Russian State. Baptism of Alania. Baptism of Russia. Acceptance of Islam by the peoples of Volga Bulgaria. Formation of a common cultural space. Russia and the Horde. The struggle against the expansion of the Crusaders. Formation of a unified Russian state. Establishment of autocephaly of the Russian Church.
	Topic 2.2. Russia in the XVI-XVII centuries: from the Grand Duchy to the Tsardom. Russia as a multi-ethnic and multi-confessional power. Establishment of patriarchy. The role of the

	Russian Church in overcoming the Turmoils. The reforms of Patriarch Nikon and the emergence of the Old Believers. Integration of peoples traditionally practicing Islam. Development of Orthodox and Muslim clergy. Missionary work and Christianization in the context of Russian geographical discoveries.
	Topic 2.3. Russia in the late XVII-XVIII centuries: from tsardom to empire. Church reform of Peter the Great. Strengthening of religious tolerance. Recognition of Buddhism. The Russian Empire in the XIX - early XX centuries. Religious life in the early XX century.
	Topic 2.4. Russia in the "years of great upheavals". Religion in Soviet society. The All-Russian Local Council of 1917 and the restoration of patriarchy. Decree on the separation of church from state and school from church. Renewalism. The policy of the Soviet state in relation to religion. The role of religious organizations in the Great Patriotic War. Revival of religious life in the 1980s-1990s.
	Topic 2.5. Religious life in modern Russia. State-religious and interreligious relations. Traditional religions of the Russian Federation.
Module 3. Religious Traditions of Russia and Traditional Russian Spiritual and Moral Values	**Topic 3.1.** Man and his place in the world. Christian, Islamic, Buddhist and Jewish religious anthropologies. Body and consciousness. Birth and death. The value of man's earthly life and its meanings. Human dignity. Religion and ethics. Posthumous existence. Remembrance of ancestors.
	Topic 3.2. The concept of traditional Russian spiritual and moral values. Commonality of spiritual and moral values for believers and non-believers. Christianity, Islam, Buddhism and Judaism on public morality. Ethics of creative labor and humanity. Values of the family. Religious traditions of Russia about mercy, social justice, collectivism, mutual help and mutual respect.
	Topic 3.3. Religious traditions of Russia and all-Russian civic identity. Service to the Fatherland and responsibility for its fate. Historical memory of joint peaceful creation and joint defense of the Motherland. Historically formed spiritual and moral unity of the peoples of Russia. Russia as a multi-confessional state-civilization.
	Topic 3.4. Russian legislation on religious associations. Missionary activity. Religious property. Objects of cultural heritage. State-religious relations. The Council for Cooperation with Religious Associations under the President of the Russian Federation. Interreligious Council of Russia. Religious expertise. Religious organizations of the Russian Federation and the tasks of preserving and strengthening traditional Russian spiritual and moral values.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	History of Russia
Course Workload	Credits and academic hours – 4 / 144
Course contents	
Course Module Title	**Brief Description of the Module Content**
I. Theory and methodology of Historical Science	1. History as science
II. Ancient Russia in Medieval age	2. Ancient Russia 3. Feudal fragmentation and struggle for independence Formation of the Russian united state
III. Russia on the brink of New Age and in the New Age	5. Russia in the XVI century. Ivan the 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

2024-2025

Course title	History of Medicine
Course Workload	Credits and academic hours - **2/72**
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Introduction. Early kinds of healing in Primeval Era	Topic 1. Early kinds of healing in Primeval Era
Module 2. Healing and Medicine in Ancient East Civilizations	Topic 2. Healing and Medicine in Ancient Mesopotamia (Sumer, Babylonia, Assyria) and Ancient Egypt Topic 3. Healing and Medicine in Ancient India and Ancient China
Module 3. Healing and Medicine in Ancient Mediterranean countries	Topic 4. Healing and Medicine in Ancient Greece Topic 5. Healing and Medicine in Ancient Rome.
Module 4. Medieval Medicine (V–XV centuries)	Topic 6**.** Medicine in the Byzantine Empire and Medieval East (the Caliphates; Middle and Central Asia) Topic 7. Medicine in Medieval Western Europe (V–XV centuries) and in Medieval (Old) Russ (IX–XV centuries)
Module 5. Medicine in Early Modern Time (XV – early XVII century)	Topic 8. Renaissance Medicine in Western Europe Topic 9. Medicine in Pre-Hispanic Americas before and after the conquest (Mayas, Aztecs, Incas) and in the Russia State (XV–XVII centuries)
Module 6. Biological Sciences and Medicine in Modern Time (mid XVII – early XIX century)	Topic 10. Medico-Biological Sciences in Modern Time (Biology and Genetics, Anatomy, Histology, Pathology, Microbiology) Topic 11. Medico-Biological Sciences in Modern Time (Physiology and Experimental Medicine)
Module 7. Clinical Medicine in Modern Time (mid XVII – early XX century)	Topic 12. Clinical Medicine in Modern Time (Internal diseases; Infectious diseases and Epidemics)

	Topic 13. Clinical Medicine in Modern Time (Problems and progress of Surgery; History of Dentistry)
Module 8. Medicine and Public Health in the XX century	Topic 14. Medicine and Public Health in the XX century (History of the Nobel Prizes in Physiology or Medicine; Medicine and Public Health in Russia in XIX–XX centuries; International co-operation in Public Health and Medicine)

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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 Benign tumors	Classification of tumors. Odontogenic and 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 Malignant tumors	2.1 Carcinogenesis theories. 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 / speciality code and title

2024-2025

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 patient	General condition, consciousness, position, build, assessment of the skin and mucous membranes, lymph nodes, muscular system, joints (4 hours).
Module 2 Case history. Questioning the patient. General examination of the patient.	Case history writing scheme (4 hours).
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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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

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**
The method of infiltration – ICON	The method of infiltration - ICON
Method of chemical-mechanical removal of carious lesions. Carisolv System.	Method of chemical-mechanical removal of carious lesions. Carisolv System.
Non-invasive dental treatments	Dental drug Saforide 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. Renteria. Deep fluoridation of the hard tissues of the tooth. Principles of minimally invasive technologies. Diagnostic dissection of fissures. Fissurotomy. Tunnel dissection. Ultrasonic preparation of hard tooth tissues. Laser dissection of hard tooth tissues.
A.R.T.technique	Indications and principles of treatment. Hand tools used for minimally invasive techniques of tooth treatment. Filling materials: glass ionomer cements, compomers, fluid composites.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Infectious Diseases, Phthisiology
Course Workload	Credits and academic hours - 3 credits/108 hours
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
	2.3. Chlamydial infections. The clinical 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 infection
	3.5 Viral hepatitis
	3.6 Measles and rubella viruses
	4.1 The content and objectives of the science of phthisiology, its relationship with other medical disciplines.

Course Title	Infectious Diseases, Phthisiology
Course Workload	Credits and academic hours - 3 credits/108 hours
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 4 Etiopathogenesis. Etiology of tuberculosis.	**4.2** Topic 4.2 Epidemiology situation of tuberculosis around the globe **4.3** Taxonomic characteristics of the causative agent of tuberculosis. Pathogenesis of the development of pulmonary and extrapulmonary tuberculosis. latent tuberculosis
Module 5 Diagnosis, management, and treatment of tuberculosis	**5.1** Diagnosis of the tuberculosis process.
	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.	**6.1**Tuberculosis 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

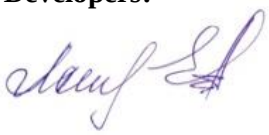
31.05.03 Dentistry

field of studies / specialty code and title

2024-2025

Course title	Immunology, clinical immunology
Course workload*	Credits and academic hours – 2 / 72
Course 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 66mmunityy. 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.
Clinical immunology	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 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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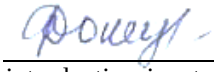

A.D. Donetskova

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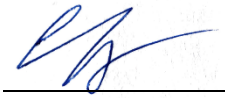

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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 Anomalies and defects ofmaxillofacial region	**1.1** Surgical treatment for anomalies and defects of theupper and lower jaws. Operative intervention.
Module 2 Periodontology	**2.1** Surgical preparation of the oral cavity 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 Dental and maxillofacial implantation	**3.1** 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

2024-2025

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**
Section 1. Introduction to dentistry. The structure of the specialty dentistry.	Topic 1. Introduction to the specialty of dentistry. The history of the development of dentistry.
	Topic 2. The structure of the specialty dentistry. Ethics and deontology in dentistry.
Section 2. Ergonomics of dental care. Organization and equipment of a dental clinic.	Topic 3. Organization and equipment of a dental clinic, departments, cabinets, functions, staff. Provision of dental medical care, levels, standards.
	Topic 4. Types of dental institutions by type of ownership. Insurance in dentistry. Medical documentation.
	Topic 5. Safety rules of working in dentistry. Personal protective equipment at a dental appointment. Radiology. Rules for working with dental equipment.
	Topic 6. First aid to victims in case of violation of safety regulations. An occupational injury. The sequence of actions in case of an occupational injury. Anti-aids first aid kit.
	Topic 7. Equipment. Procedures and standards for equipping premises. Dental cabinets of all profiles.
	Topic 8. Dental installations, types of tips, burs. Maintenance of the equipment. Ergonomics of working on dental installations in 4 hands.
	Topic 9. Dental instruments: basic set. Tools for therapeutic dentistry. Tools for restoration. The structure of the tools, their purpose, and the rules of use.
	Topic 10. Tools for therapeutic dentistry. The structure of the tools, their purpose, and the rules of use. Burs.
	Topic 11. Periodontal instruments. Instruments for surgical dentistry. The structure of the tools, their purpose, and the rules of use.
	Topic 12. Tools for orthopedic dentistry. The structure of the tools, their purpose, and the rules of use.
Section 3. Disinfection and sterilization in dentistry. **SanPiN 2.4.2.2821-10.**	Topic 13. Disinfection and sterilization in dentistry.
	Topic 14. Types of disinfection
	Topic 15. Sterilization. Classification of tools depending on the type of processing.
	Topic 16. Types of waste.
	Topic 17. The final lesson. A test class.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Latin Language
Course Workload	Credits and academic hours - 2 credits / 72 hours
Course 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. T.9 Nouns of the fourth declensions. T.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

2024-2025

Course Title	Law science
Course Workload	Credits and academic hours – 2 / 72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Introduction to the legal theory.	1.1. Concept and characteristics of law. Law in the system of social norms. 1.2. Sources and principles of law. Legal norm (rule) and its structure. 1.3. Legal relations: concept and characteristics. Legal facts. Offense and legal liability. 1.4. Lawmaking: concept and types. Systematization of law. 1.5. System of law. National and international law. 1.6. Human rights and freedoms. Classification of human rights. Mechanisms for the protection of human rights.
Module 2. Introduction to the political theory.	2.1. Origin of the state. The concept and characteristics of the state. 2.2. Functions and mechanism of the state. 2.3. Form of state: form of government, form of state structure, political regime.
Module 3. Fundamentals of constitutional law.	3.1. The concept of constitutional law as a branch of law. Subject and method of constitutional law. 3.2. Sources of constitutional law. 3.3. Basic institutions of constitutional law.
Module 4. Fundamentals of administrative law.	4.1. The concept of administrative law as a branch of law. Subject and method of administrative law. 4.2. Sources of administrative law. 4.3. Basic institutions of administrative law. 4.4. The concept of administrative offense and administrative liability.
Module 5. Fundamentals of civil law.	5.1. The concept of civil law as a branch of law. Subject and method of civil law. 5.2. Sources of civil law. Principles of civil law. 5.3. Civil relations. Individuals and legal entities as subjects of civil law. Objects of civil rights. 5.4. The concept and content of rights in rem. 5.5. The concept of a civil transaction. The concept and content of a civil contract. 5.6. Terms in civil law. Limitation period. 5.7. Concept and types of obligations. Civil liability. 5.8. Basics of inheritance law.
Module 6. Fundamentals of criminal law.	6.1. The concept of criminal law as a branch of law. Subject and method of criminal law. 6.2. Sources of criminal law. The action of criminal law in time, in space and to persons

	6.3. Crime: concept and general characteristics. Corpus delicti. 6.4. The concept and characteristics of criminal liability. Circumstances excluding the criminality of a deed. 6.5. Concept and types of criminal penalties.
Module 7. Fundamentals of labor law.	7.1. The concept of labor law as a branch of law. Subject and method of labor law. 7.2. Sources of labor law. 7.3. Employment contract: concept, content and types. 7.4. Working time and rest time. The concept of remuneration. 7.5. Labor discipline and work schedule. 7.6. Labor disputes: concept and types.
Module 8. Fundamentals of family law.	8.1. The concept of family law as a branch of law. Subject and method of family law. 8.2. Sources of family law. Basic institutions of family law. 8.3. Concept, signs, conditions and procedure for marriage. Nullity of marriage. Divorce. 8.4. Rights and obligations of spouses. Rights of minors. 8.5. Alimony obligations.
Module 9. Fundamentals of legal regulation of medical activities.	9.1. Basic issues of regulation of medical law. Medical legal relations. 9.2. Sources of medical law. 9.3. Subjects of medical legal relations. 9.4. Responsibility of medical workers.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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 andmedical 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 Tooth and root extraction surgery	3.1 Features of facial and oral surgery. Techniques for 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.

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COURSE DESCRIPTION

31.05.03 Dentistry

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2024-2025

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. 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. Fundamentals of Differential Calculus. Analysis of graphs using derivatives. Foundations of Integral Calculus. Separable ordinary differential equations.

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COURSE DESCRIPTION

31.05.03 Dentistry

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2024-2025

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 the maxillofacial region	1.1 Actinomycosis of the maxillofacial region. Tuberculosis, syphilis of the maxillofacial region.
	1.2 Boils, facial carbuncles. Rust infection
Module 2 Diseases and injuries of thesalivary glands	2.1 Anatomy of salivaryglands.Reactive-dystrophic changes (sialosis).
	2.2 Inflammatory diseases of the salivary glands. Salivary gland disease. Damage to the salivary glands.
Module 3 Traumatic injuriesof the maxillofacial region.	3.1 Statistics and classification of injuries of 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 Diseases of thetrigeminal andfacial nerves	4.1 Neuritis and trigeminal neuralgia
	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. Peculiarities of gunshot wounds. Firearm injuries ofsoft tissues of the face. PCS of wounds.
	6.2 Gunshot injuries of facial bones. 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 themaxillofacialregion	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.

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31.05.03 Dentistry

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2024-2025

Course Title	Maxillofacial Prosthodontics
Course Workload	Credits and academic hours - 2 credits /72 hours
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Diagnostic methods in maxillofacial prosthetics.	Topic 1.1. General ideas about maxillofacial prosthetics. Basic principles. Methods of clinical examination of patients with injuries and defects of the jaws and face. CBCT and MRI in maxillofacial trauma. Getting a face mask.
	Topic 1.2. Classification of dento-maxillary and maxillofacial prostheses, retention methods
	Topic 1.3. The main clinical symptoms of jaw fractures. Typical displacement of fragments of the jaws in non-gunshot trauma. Reading radiographs with fractures and defects of the jaws.
Section 2. Features of prosthetic treatment of patients with injuries and post-traumatic defects of the maxillofacial region.	Topic 2.1. Aims of the prosthetic stage in the complex rehabilitation of patients with injuries of the maxillofacial region. Immobilization of the fractured jaws for transportation. Various types of dentition and prostheses: repositioning, fixing, replacing and combined for the upper, lower jaws and for both (edentulous) jaws.
	Topic 2.2. Clinical and laboratory methods of prosthetics for incorrectly fused fractures, for false joints, for microstomy.
	Topic 2.3. Features of care for patients with defects of the maxillofacial region. Timing of examinations. Functional disorders in injuries of the maxillofacial region. Fundamentals of therapeutic gymnastics, mechanotherapy.
Section 3 Features of prosthetic treatment of patients with congenital defects of the alveolar process and palate.	Topic 3.1. Features of congenital partial and complete cleft lip and palate, clinical symptoms, stages of complex treatment, features of prosthetics for adult patients with congenital palate defects according to the concept of an artificial external skeleton.
Section 4 Features of prosthetic treatment of patients with postoperative palate defects in cancer patients.	Topic 4.1. Classification of palatal defects. The place and significance of the prosthetic stage of complex treatment of patients with palatal defects of oncological (postoperative)

	genesis. Obtaining an impression of the upper jaw with a defect in the palate.
	Topic 4.2. Features of the obturating part of the prosthesis for palate defects, its structure, functions, indications and contraindications for use. Production of a hygienic obturator
Section 5 Facial prostheses. Basic principles of nose, eye, ear prosthetics.	Topic 5.1. Obtaining an impression (scanning) of the auricle. Methods of manufacturing silicone prostheses and methods for attaching facial prostheses and caring for them.
	Topic 5.2. Technologies for the manufacture of prosthetic eyes, nose. retention methods. Materials for the manufacture of facial prostheses.
	Topic 5.3. Computer technique for determining the color of the skin of the face. Rules for the care of facial prostheses.
Section 6 Prevention of sports injuries of teeth and jaws.	Topic 6.1. Types of splints for the prevention of dental sports injuries. Methods for the manufacture of a boxing splint, a prophylactic tooth splint made using hot molding.

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COURSE DESCRIPTION

31.05.03 Dentistry

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2024-2025

Course Title	Medical Elementology
Course Workload	Credits and academic hours - 2/72
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. 2. Biogeochemistry and factors affecting the elemental status of population. 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	11. 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

2024-2025

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**
Section 1. Heredity and pathology.	Topic 1.1. Medical genetics in the structure of the biomedical sciences of man. Heredity and health. Mutations as an etiological factor in hereditary diseases.
	Topic 1.2. Classification of hereditary diseases. Heredity and pathogenesis. Heredity and clinical picture. Heredity and disease outcomes.
Section 2. Semiotics of hereditary pathology and principles of clinical diagnostics.	Topic 2.1. General and particular semiotics of hereditary pathology. Morphogenetic variants of development and their significance in the diagnosis of hereditary pathology. Anthropometry.
	Topic 2.2. Congenital malformations. Family approach in the diagnosis of hereditary pathology.
	Topic 2.3. Clinical and genealogical method for the diagnosis of hereditary diseases. Clinical features of the manifestation of hereditary diseases. Graphic representation of a pedigree. Pedigree analysis. Genealogical analysis in monogenic diseases. Genealogical analysis in multifactorial diseases.
Section 3. Chromosomal diseases.	Topic 3.1. Classification of chromosomal diseases. Frequency, pathogenesis and clinical features of chromosomal diseases. Clinical characteristics of some chromosomal syndromes (trisomy syndromes, partial aneuploidy syndromes).
	Topic 3.2. Methods for diagnosing chromosomal diseases. Treatment of chromosomal diseases.
Section 4. Monogenic diseases.	Topic 4.1. Classification of monogenic diseases. Genetic heterogeneity and clinical polymorphism of monogenic diseases.
	Topic 4.2. Methods for laboratory diagnosis of monogenic pathology (biochemical methods, molecular genetic methods).
Section 5. Multifactorial diseases.	Topic 5.1. The most common nosological forms. General and particular mechanisms for the implementation of hereditary predisposition. Factors and principles for identifying individuals with an increased risk of developing diseases with a hereditary predisposition.

	Ecogenetic diseases.
Section 6. Congenital and hereditary diseases of the teeth.	Topic 6.1. General characteristics of the structure of the teeth. Genetic control of normal development and formation of dental tissues. Genetic factors in the formation of dental anomalies.
	Topic 6.2. Classification of anomalies in the development of teeth and dentoalveolar region. Anomalies in the size and shape of the teeth (macrodentia, microdentia, fused teeth, doubling, invagination of teeth, abnormal tubercles and enamel pearls, taurodontism).
	Topic 6.3. Hereditary diseases and syndromes with anomalies in the size and shape of the teeth. Anomalies in the quantity of teeth (dental agenesis, supernumerary teeth). Hereditary disorders of the formation of the structure of the teeth. Anomalies of teeth eruption. Hereditary anomalies of occlusion.
Section 7. Congenital malformations of the maxillofacial region.	Topic 7.1. Cleft lip and palate. The most common monogenic syndromes with cleft lip and palate. Atypical clefts of the craniofacial region. Principles of treatment and rehabilitation of patients with congenital orofacial clefts. Problems of rehabilitation of patients with congenital orofacial clefts. Principles of prevention of orofacial clefts.
Section 8. Dental and oral diseases of a multifactorial nature.	Topic 8.1. Multifactorial malformations of the craniofacial region, dentoalveolar region and dentition, syndromic forms. Common dental diseases of a multifactorial nature (genetic aspects of caries, genetic aspects of periodontal disease).
Section 9. Prevention of congenital and hereditary oral and dental pathology.	Topic 9.1. Medical genetic consultancy. Methods of prenatal diagnosis of hereditary diseases. Methods for detecting chromosomal disorders and monogenic diseases. Problems of medical genetic consultancy and treatment of hereditary diseases in dentistry.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Medical Informatics
Course Workload	Credits and academic hours – 3 / 108
Course contents	
Course Module Title	Brief Description of the Module Content
INTRODUCTION TO MEDICAL INFORMATICS	Basic concepts of medical 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, joystick, and digitizer). Output device (monitor, printer, plotter). Random access memory. Permanent storage device. External storage devices. Software tools for the implementation of information processes. **Section contents:** Types of software (system software, applications, programming systems), file archiver (Zip, Arj, 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 PROCESSING MEDICAL DATA USING WORD PROCESSOR	Introduction to word processors Microsoft Word, Open Office Writer. 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, drawings, objects. Editing formulas. Inserting graphics into a 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 TECHNOLOGIES USING SPREADSHEETS	**Introduction to spreadsheet processors Microsoft Excel, OpenOffice Calc** Main components of the program: title menu, toolbar, string 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 Calc.** Sorting and searching data, entering formulas, priorities of mathematical operations, actions in a cell. Introductionto basic mathematical, statistical, logical functions. **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 STORING AND PROCESSING MEDICAL DATA USING DATABASE MANAGEMENT SYSTEMS.	**Introduction to data base Microsoft Access and OpenOffice Base.** Database concept, database management system (DBMS), relational databases. Relational database structure: table, record, field. Data types., Basic elements: tables, forms, reports, queries, macros, modules. Table constructor, form wizard. Database design. Editing field properties, key fields. Direct data entry into a table, data entry using a form.

	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, wildcards, operators and operands. Functions, group operations. Search, sorting, selection of records using filter.
COMPUTER NETWORKS IN MEDICINE	**Network technologies** 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.
MEDICAL INFORMATION SYSTEMS	**Introduction to MIS** 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 Information System according to the method of Tavrovsky V.M

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

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 categories.	Principles of medical rehabilitation depending on the age of 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

2024-2025

Course Title	**Methods 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**
Section 1. General questions of methodology of teaching RFL	Topic 1.1 The role and importance of the Russian language in the modern world. Topic 1.2. Methods of teaching Russian as a foreign language, communication psychology and linguistics. Topic 1.3. The purpose, principles, methods of teaching trials. Topic 1.4. Features of teaching trials at the initial stage (A1-A2): purposes and content.
Section 2. Teaching grammar	Topic 2.1. 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. Topic 2.2. The noun. Gender, number, animation and case. The connection with the native language. Topic 2.3. 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. Topic 2.4. Verbal system. View-time subsystem. Conjugation. Classes of verbs.

	Verbal notebook. Topic 2.5. Verbs of movement: a sequence of learning difficulties. Indirect meanings of verbs of motion.
Section 3. Teaching vocabulary	Topic 3.1. Work on vocabulary. Lexical minimum. Types of lexical exercises. Topic 3.2. Methods of semantization of new words. Difficulties in the use of words that are similar in meaning.
Section 4. Teaching phonetics	Topic 4.1. The subject and the meaning of phonetics, discrete and general phonetics, theoretical and practical phonetics. General principles of methodology of teaching pronunciation. Topic 4.2. Units of phonetics. Sounds and letters. Russian alphabet. Phonetic transcription. Work on pronunciation. Topic 4.3. Methods of producing and correction of Russian sounds. Topic 4.4. The sound system of the Russian language. Vowel sounds, articulation base reduction. Errors in pronunciation of vowels. Eliminating accent. Topic 4.5. 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. Topic 4.6. The pronunciation of the word. Phonetic structure of words. Typical phonetic errors and methods to address them. Topic 4.7. work on intonation. Characteristics of intonation structures (construction, use). Possible mistakes.
Section 5. Teaching types of speech activity	Topic 5.1. Types of speech activity. Objectives and content of teaching speaking. speaking mechanisms. Teaching monologue and dialogue. Exercise for teaching speaking, examination. Topic 5.2. Types of speech activity. Teaching listening skills and mechanisms.The complexity of the exercises. Errors in teaching listening. Topic 5.3. Types of speech activity. Objectives and content of teaching reading. The requirements for academic text at an early stage. Work on the literary text. Topic 5.4. Types of speech activity. writing training: characteristics, mechanisms,

	exercises on writing techniques.
Section 6. Organization of examinations and independent work	Topic 6.1. Functions of examinations. Topic 6.2. Examinations (tests on vocabulary and grammar, by listening tests, reading tests, writing tests, oral tests). Topic 6.3. Peculiarities of independent work in the training trials.
Section 7. Organization of the education process	Topic 7.1. Lesson as a structural unit of the learning process Topic 7.2. lesson plans: the lesson step by step, the goal of learning activities, methods and means of training.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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.

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Modern Endodontics
Course Workload	Credits and academic hours – 2/72
Course contents	
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. 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.	Microbiology 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 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 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.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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. Central and peripheral nervous system. Movement and its disorders. Extrapyramidal system and the cerebellum.	Anatomy and physiology of the pyramidal, extrapyramidal system, cerebellum. Study of the volume of active movements of muscle strength and tone, physiological and 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 sensation. Trigeminal system as part of the general sensitivity.	Pathways of superficial and deep sensitivity. Research technique for surface and deep sensitivity. Symptoms and types of sensory disorders.
The concept of the cranial nerves. Examination techniques. Clinical syndromes due to the cranial nerve lesions.	Anatomy and physiology 1,2,3,4,5,6,8,11 cranial nerves. Research technique and symptoms of lesion.
Trigeminal system, stomalgia and glossalgia. Clinics, diagnosis and treatments	Anatomy and physiology of the trigeminal nerve 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. Basic manifestations in the autonomic nervous	The autonomic nervous system. The main symptoms of damage to the ANS in the face and head. Innervation of salivation. Higher nervous

system disorders of face and head.	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 nerve. Postherpetic neuropathy of the trigeminal nerve. Glossalgia and dental plexalgia.	Neuralgia of the trigeminal and glossopharyngeal nerve Glossalgia and dental plexalgia. Etiology, pathogenesis, clinical picture, diagnosis, differential diagnosis and treatment.
Myofascial pain dysfunctional syndrome of the face, Ganglionitis. Facial nerve neuropathy. Facial hyperkinesis	Myofascial pain dysfunctional syndrome of the face. Ganglionitis of the pterygopalatine, ciliary, submandibular, sublingual, nasal and ear-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 craniocerebral trauma.	Stroke by ischemic and hemorrhagic type. Etiology, clinic, diagnostics. first aid measures at the prehospital stage, treatment, prevention. TBI, etiology, clinic, diagnosis, treatment.
Infectious diseases of the central and peripheral nervous system, meningitis, meningoencephalitis, polyneuropathy, neuro AIDS, neurosyphilis, multiple sclerosis.	Meningitis, meningoencephalitis, polyneuropathy, neuro-AIDS, neurosyphilis, multiple sclerosis. Etiology, clinical presentation, diagnosis and treatment
Syringomyelia, syringobulbia, brain tumors, epilepsy	Syringomyelia, syringobulbia, brain tumors, etiology, clinical picture, diagnosis and treatment. Epilepsy: etiology, clinical picture, types of seizures, diagnosis, first aid at the prehospital stage, treatment.

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Normal physiology - Physiology of maxillofacial region
Course Workload	Credits and academic hours - 5/180
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Physiology of excitable cells.	Topic 1.1. Introduction to physiology. General physiology and cell physiology. Cell membranes, cell membrane transport.
	Topic 1.2. Excitability and its assessment. Membrane potential. Action potential.
	Topic 1.3. Physiology of the synapse. The physiology of the nerve and the nerve fiber.
	Topic 1.4. Physiology of muscle contraction.
Module 2. Nervous and humoral regulation of body functions.	Topic 2.1. Nervous regulation of physiological functions. Reflex and its characteristics. The main properties of nerve centers.
	Topic 2.2. Sympathetic, parasympathetic, metasympathetic nervous system. The role of the autonomic nervous system in the forming of adaptive reactions.
	Topic 2.3. Humoral regulation of physiological functions. Physiology of endocrine glands. General hormone properties. Endocrine glands hierarchy.
Module 3. Physiology of higher nervous activity.	Topic 3.1. Physiology of HNA. Conditional reflexes. Types of HNA and the temperament.
	Topic 3.2. Memory. Sleep.
Module 4. Physiology of sensory systems.	Topic 4.1. General physiology of sensory systems. Skin sensitivity.
	Topic 4.2. Physiology of vision.
	Topic 4.3. Physiology of hearing and vestibular apparatus.
	Topic 4.4. Physiology of taste and smell.
Module 5. Blood physiology.	Topic 5.1. Function and composition of blood. Blood plasma. Blood elements. White blood cells. Functions of red blood cells and hemoglobin. Blood types. Rh factor.

Course Title	Normal physiology - Physiology of maxillofacial region
Course Workload	Credits and academic hours - 5/180
Course contents	
Course Module Title	**Brief Description of the Module Content**
	Topic 5.2. Blood buffer systems. A system for regulating the aggregate state of blood.
Module 6. Respiratory physiology.	Topic 6.1. Physiology of respiration. External breathing. The role of respiratory muscles. Air volumes that characterize respiration.
	Topic 6.2. Biophysics of gas exchange. Transfer of gases by blood. Regulation of respiration.
Module 7. Physiology of the cardiovascular system.	Topic 7.1. Physiology of the cardiovascular system. Heart cycle. Propagation of excitation through the myocardium. Conductive system of the heart. Properties of the heart muscle. Nervous and humoral regulation of the heart.
	Topic 7.2. Hemodynamics. Basic laws. Microcirculation and lymph flow. Coronary blood flow. Methods of blood circulation research.
Module 8. Excretion. Physiology of kidneys.	Topic 8.1. The system of excretory organs. Formation of urine in the kidneys. Kidneys as an organ of homeostasis.
	Topic 8.2. Non-urinary functions of the kidneys. The role of the kidneys in the development of adaptive responses of the body. Analysis of the RAAS scheme.
Module 9. Physiology of digestion.	Topic 9.1. Functions of the digestive tract. Motility of the digestive tract. Secretory function and digestion in the oral cavity.
	Topic 9.2. Secretory function and digestion in the stomach, small and large intestine. The role of the liver in digestion. Absorption of nutrients in the gastrointestinal tract.
Module 10. Metabolism and energy. Thermoregulation.	Topic 10.1. Metabolism. Energy exchange. Determination of the metabolic rate. Basic metabolic rate, total metabolic rate, working metabolism, daily energy consumption. Intake and consumption of substances in the body. Metabolism of proteins, fats, carbohydrates and trace elements.
	Topic 10.2. Neurohumoral regulation of metabolism in the body. Physiological basis of nutrition. Basic principles of compiling food rations. Thermoregulation. Body temperature and thermoreception.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Obstetrics
Course Workload	Credits and academic hours – 3 / 108
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 menstrual cycle and its regulation. Family planning,birth control	Topic 2.1. Clinical and physiological features of the reproductive system of women. The menstrual cycle and its 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.
	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) presentations.	Topic 5.1 Definition of the 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", pre-birth 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

2024-2025

Course Title	Operative Dentistry: Cariology and Hard Tissues Diseases
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

2024-2025

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.	1. Optic system of the visual organ. 2. Visual acuity. 3. Physical and clinical refraction. 4. Accommodation and convergence. 5. refractive errors. Correction. 6. Astigmatism, its types, principles of correction. 7. Presbyopia, principles of correction. 8. 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

2024-2025

Course Title	Otorhinolaryngology
Course Workload	Credits and academic hours - 2 / 72
Course contents	
Course Module Title	**Brief Description of the Module Content**
1. Research methods of ENT – organs.	1. Research methods of ENT – organs: anterior rhinoscopy, posterior rhinoscopy, pharyngoscope, otoscopy.
2. Pathology of the nose and paranasal sinuses.	2. 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.
3. Pathology of the pharynx.	3. Angina, complications of angina. Adenoids. Foreign body of the pharynx.
4. Pathology of the ear.	4. Diseases of the external ear. Acute middle ear infections. Mastoiditis. Chronic diseases of the middle ear.
5. Pathology of the larynx.	5. Acute diseases of the larynx. Stenosis of the larynx. Tracheotomy.
6. Tumors of the ear and upper respiratory tract.	6. Tumors of the ear and upper respiratory tract.

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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

2024-2025

Course Title	Orthodontics and Pediatric Prosthodontics
Course Workload	Credits and academic hours 6 / 216
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. Introduction to the specialty. Organization of orthodontic care. Age features of normal dentoalveolar system in children. Etiology, classification of dentoalveolar anomalies.	Topic 1.1. Introduction to the specialty. Organization of orthodontic care.
	Topic 1.2. Age features of normal dentoalveolar system in children.
	Topic 1.3. Etiology of dental anomalies.
	Topic 1.4. Classification of dental anomalies.
Section 2. Methods of examination and diagnostics in orthodontics.	Topic 2.1. Clinical examination method in orthodontics.
	Topic 2.2. Anthropometric examination methods.
	Topic 2.3. X-ray methods of examination.
	Topic 2.4. Functional examination methods.
Section 3. Methods of treatment in orthodontics. Prevention of dental anomalies.	Topic 3.1. Methods of treatment in orthodontics. Classification of devices.
	Topic 3.2. Apparatuses of mechanical action.
	Topic 3.3. Devices of functional-guiding and combined action. Trainers, activators and regulators of functions.
Section 4. Modern technologies in orthodontics.	Topic 4.1. Modern orthodontic methods of treatment.
	Topic 4.2. Bracket system.
	Topic 4.3. Retention of the results of orthodontic treatment.
Section 5. Dental anomalies. clinical forms. Diagnostics. Treatment.	Topic 5.1. Diagnosis and methods of treatment of anomalies of teeth, dental arches and jawbones.
	Topic 5.2. Diagnosis and treatment of anomalies of occlusion in the sagittal plane.
	Topic 5.3. Diagnosis and treatment of anomalies of occlusion in the vertical plane. Diagnosis and treatment of anomalies of occlusion in the transversal plane.
Section 6. Dental prosthetics in children and adolescents.	Topic 6.1. Principles of treatment of dentoalveolar anomalies in congenital malformations of the maxillofacial region.

Course Title	Orthodontics and Pediatric Prosthodontics
Course Workload	Credits and academic hours 6 / 216
Course contents	
Course Module Title	**Brief Description of the Module Content**
	Topic 6.2. Dental prosthetics in children and adolescents.

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

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.
Particular issues	Topic 2.1. Transportation of patients. Helping 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. Special aspects of patient care.
	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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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Oral Surgery
Course Workload	Credits and academic hours – 5/180
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1 Periodontitis	1.1 Etiology, pathogenesis and classification of 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 Odontogenic osteomyelitis ofthe jaw	3.3 Etiology, pathogenesis, pathological anatomy,clinical picture (Acute, subacute, chronic stages of osteomyelitis).
	3.4 Diagnostics, differential diagnostics, treatment, prevention.
Module 4 Diseases of the lymphatic system	4.1 Lymphatic system of the face and neck. Lymphangitis. Etiology, pathogenesis, pathologicalanatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention.
	4.2 Lymphadenitis. Etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention.

	4.3 Adenophlegmon. Etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention.
Module 5 Diseases ofteething	5.1 Pericoronitis. Etiology, pathogenesis, pathological anatomy, clinical picture, diagnosis, differential diagnosis, treatment, prevention.
	5.2 Misplacement and retention teeth. Classification, clinical picture, diagnosis, removal of certain groupsof teeth, complications, prevention.
Module 6 Odontogenic inflammation of the maxillary sinus	6.1 Anatomy of the maxillary sinus. Etiology, pathogenesis, pathological anatomy.
	6.2 Clinical picture, diagnosis, differential diagnosis, treatment, prevention.
Module 7 Abscesses and phlegmon located near the lower jaw	7.1 Classification, General principles of diagnosis. Changes in the body's immunological reactivity in case of odontogenic inflammatory diseases. Abscessesand 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, sublingual region, retromolar space. Abscesses of thebody 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 phlegmon located near the upper jaw	8.1 Abscesses and phlegmon of the infraorbital,zygomatic, buccal regions. 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 Complications ofщdontogenic inflammatory diseases	9.1 Thrombophlebitis of the facial veins. Thrombosis of the cavernous sinus. Mediastinitis. Meningitis. Sepsis.

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COURSE DESCRIPTION

31.05.03 DENTISTRY

field of studies / speciality code and title
2024-2025

Course Title	Pathological Anatomy-Pathological Anatomy of the Head and Neck
Course Workload	Credits and academic hours **- 5/180**
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1 Pathoanatomy of cells and tissues.	**Topic 1.1.** Reversible cell damage. Pathology of protein metabolism.
	Topic 1.2. Pathology of fat and mineral metabolism.
	Topic 1.3. Disorders of pigment metabolism.
	Topic 1.4. Irreversible cell damage. Necrosis. Apoptosis.
Module 2 Pathoanatomy of typical pathological processes.	**Topic 2.1.** Circulatory disorders. Shock. Thrombosis. Embolism.
	Topic 2.2. Atrophy. Hypertrophy. Regeneration. Types of tissue healing. Immune damage to organs.
	Topic 2.3. Exudative inflammation. Productive inflammation.
Module 3 Pathoanatomy of tumors.	**Topic 3.1.** Introduction to oncopathology.
	Topic 3.2. Tumors from the epithelium.
	Topic 3.3. Tumors of mesenchymal and mesodermal origin.
Module 4 Pathoanatomy of blood and bone marrow cells.	**Topic 4.1.** Hemoblastoses.
	Topic 4.2. Anemia.
Module 5 Pathoanatomy of the orofacial region	**Topic 5.1.** Non-infectious diseases of the scalp.
	Topic 5.2. Lesions of the orofacial region in infectious diseases.
	Topic 5.3. Diseases of teeth, gums and periodontium.
	Topic 5.4. Diseases of the mucous membrane of the oral cavity and lips.
	Topic 5.5. Diseases of the salivary glands.
	Topic 5.6. Diseases of the jaw bones.
Module 6	**Topic 6.1.** Congenital anomalies of the neck.

Pathoanatomy of infectious diseases.	**Topic 6.2.** Tumors and tumor-like diseases.
	Topic 6.3. Pathology of the lymph nodes of the neck.
	Topic 6.4. Diseases of the thyroid gland.
	Topic 6.5. Diseases of the parathyroid glands.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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 General nosology.	**Topic 1.1.** Conceptions of health and disease. Sano- и 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 regeneration in dentistry.
	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 oral cavity and mechanisms of its damage.
	Topic 2.6. Allergy. Features of allergic 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 Non-specific metabolic disorders	**Topic 3.1.** Hypoxia. Pathogenesis of periodontal diseases against the background of oxygen deficiency in tissues.
	Topic 3.2. Pathology of body thermoregulation. 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.
Module 4	**Topic 4.1.** Pathophysiology of extreme states.

Extreme states	**Topic 4.2.** Pathophysiology of pain. Odontogenic pain. Changes in the maxillofacial apparatus in neuralgia and neuritis of the facial and trigeminal nerves. Paresis, paralysis, trismus. Stress. Shock. Collapse. Coma. Dying 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 Pathophysiology of the hematopoietic system	**Topic 5.1.** Anemias. Hemoblobonosis. Hemoglobinopathies.
	Topic 5.2. Leukocytosis. Leukopenia. Leukemias. Changes in the oral mucosa in diseases of the hematopoietic system.
	Тема 5.3. Clinical tasks in the pathophysiology of the hematopoietic system.
	Topic 5.4. Hemorrhagic diathesis. Dental manifestations and their pathogenesis.
Module 6 Pathophysiology of the cardiovascular and respiratory systems.	**Topic 6.1.** Arrhythmias.
	Topic 6.2. Coronary heart disease. Coronarogenic and noncoronarogenic necrosis of the myocardium. Complications of myocardial infarction.
	Topic 6.3. Acute coronary syndrome.
	Topic 6.4. Heart defects. Cardiomyopathies. Myocarditis. Endocarditis. Pericarditis.
	Topic 6.5. Heart failure. Pathophysiology of respiration.
	Topic 6.6. Pathophysiology of bronchial obstruction syndromes.
	Topic 6.7. Pathophysiology of vascular tonus.
	Topic 6.8. Pathophysiology of the vascular wall. Atherosclerosis.
Module 7 Pathophysiology of the gastrointestinal tract	**Topic 7.1.** Pathophysiology of the chewing apparatus. Pathogenesis of diseases of the temporomandibular joint.
	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.
Module 8 Pathophysiology of the excretory system	**Topic 8.1.** Non-specific disorders of the excretory function of the kidneys.
	Topic 8.2. Nephrotic syndrome. Nephritic syndrome. Acute and chronic diffuse glomerulonephritis. Pyelonephritis. Urolithiasis. Acute and chronic renal failure. Uremia. Renal coma.
Module 9 Pathophysiology of the endocrine system	**Topic 9.1.** General mechanisms of endocrine 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 Pathophysiology of the nervous system and higher nervous activity	**Topic 10.1.** Pathophysiology of functional neuroses. Pathological reflexes. Pathophysiology of drug addiciton. Pathophysiology of alcoholism.
	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

2024-2025

Course Title	Pediatric dentistry
Course Workload	Credits and academic hours – 4 / 144
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. Dental caries in children.	Topic 1.1. Anatomical and physiological features of teeth structure in children. Methods of examining a child in the clinic of pediatric therapeutic dentistry.
	Topic 1.2. Etiology and pathogenesis of dental caries in children. Classification of caries. Clinical features of dental caries in children of different age groups. Diagnostic methods. Enamel caries of temporary and permanent teeth in children.
	Topic 1.3. Caries of the dentin of temporary and permanent teeth. Caries cement temporary and permanent teeth. Diagnostics and treatment.
	Topic 1.4. Suspended dental caries. Complications in the treatment of dental caries in children. Prevention of caries.
Section 2. Non-carious lesions of dental tissues.	Topic 2.1. Pathology of hard tissues of the tooth during their follicular development. Systemic enamel hypoplasia (SEH). local hypoplasia. Tetracycline teeth. Other types of SEH. Endemic dental fluorosis. Diagnostics. Treatment.
	Topic 2.2. Hereditary developmental disorders of dental tissues. Hereditary amelogenesis imperfecta. Dentin imperfecta and odontogenesis.
Section 3. Pulpitis in children.	Topic 3.1. Anatomical and physiological features of the pulp of temporary and permanent teeth in children of different ages. Etiology and pathogenesis of pulpitis. Classification of pulpitis.
	Topic 3.2. Methods for assessing the condition of the pulp in children. Methods of Diagnosis and treatment of pulpitis of temporary and permanent teeth in children.
	Topic 3.3. Conservative method of treatment of pulpitis of temporary and permanent teeth in children. Non-vital method of treatment of pulpitis of temporary and permanent teeth in children.
	Topic 3.4. Treatment of pulpitis in children under anesthesia.

	Errors and complications in the diagnosis and treatment of pulpitis in children.
Section 4. Apical periodontitis in children	Topic 4.1. Anatomical and physiological features of the periodontal ligament (PDL) of temporary and permanent teeth in children of different periods of tooth formation. Etiology and pathogenesis of apical periodontitis. Classification of apical periodontitis.
	Topic 4.2. Clinical manifestation of apical periodontitis in children. Diagnosis and differential diagnosis of apical periodontitis.
	Topic 4.3. Treatment of apical periodontitis of temporary teeth in children. Treatment of apical periodontitis of permanent teeth in childhood.
	Topic 4.4. Long-term results of treatment of apical periodontitis in children. Emergency dental care for children.
Section 5. Traumatic injuries of teeth in children.	Topic 5.1. Traumatic injuries of teeth in children.
Section 6. Diseases of the oral mucosa in children.	Topic 6.1. Anatomical and physiological features of the oral mucosa in children. Classification of diseases of the oral mucosa. Traumatic damage to the oral mucosa.
	Topic 6.2. Acute herpetic stomatitis in children. Recurrent herpetic stomatitis. Herpangina. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Streptococcal and Staphylococcal lesions of the lips and skin of the perioral region.
	Topic 6.3. Acute infectious diseases on the oral mucosa in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment.
	Topic 6.4. The state of the oral mucosa in children with diseases of internal organs and systemic diseases.
	Topic 6.5. Manifestations of drug and bacterial allergies in the oral cavity in children.
	Topic 6.6. Candidiasis in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Damage to the oral mucosa in children caused by tuberculosis and syphilitic infection. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Manifestation of HIV infection in the oral cavity in children.
	Topic 6.7. Cheilitis , glossitis in children.
Section 7. Periodontal Diseases in Children.	Topic 7.1. Anatomical and physiological features of the periodontium in children. Periodontal disease in childhood. Classification of periodontal diseases.
	Topic 7.2. Inflammatory periodontal disease in children. Etiology, pathogenesis, clinical manifestation, diagnostics, differential diagnostics, treatment. Histiocytosis of Langerhans cells . Idiopathic diseases with progressive lysis of periodontal tissues. Etiology, pathogenesis, clinical manifestation, diagnostics,

	differential diagnostics, principles of treatment.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Pharmacology
Course Workload	Credits and academic hours – 5 / 180
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. General Pharmacology	Theme 1.1. Recipe. Introduction to Pharmacology. Types of prescriptions. Formulation rules in the Russian Federation. Types of dosage forms. ATC classification. Theme 1.2. Basic principles of pharmacodynamics Mechanisms of drug action and effects. Therapeutic index, therapeutic range. Therapeutic drug monitoring. Pharmacodynamic interaction of drugs. Theme 1.3. Basic principles of pharmacokinetics. Basic pharmacokinetic parameters and their significance. Factors affecting the value of pharmacokinetic parameters. Pharmacokinetic interaction of drugs.
Module 2. Drugs affecting afferent and efferent innervation	Theme 2.1. Drugs affecting afferent innervation. Local anesthetics. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 2.2. Cholinergic agents. Anticholinergics. Cholinomimetics. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 2.3. Adrenomimetics and sympathomimetics Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 2.4. Adrenolythics and sympatholytics. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients.
Module 3. Drugs affecting the cardiovascular system	Theme 3.1. Diuretics Carbonic anhydrase inhibitors (acetazolamide). Osmodiuretics (mannitol). Loop diuretics (bumetamide, furosemide, ethacrynic acid, torasemide). Diuretics acting on the cortical segment of Henle's loop (hydrochlorothiazide, clopamide, chlorthalidone, metolazone, indapamide). Potassium-sparing diuretics (spironolactone, eplerenone, amiloride, triamterene). Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug

	interactions. Use in special categories of patients. Theme 3.2. Lipid-lowering agents Statins (fluvastatin, simvastatin, pravastatin, atorvastatin, rosuvastatin); fibrates (clofibrate, bezafibrate, gemfibrozil); derivatives of nicotinic acid (niacin, enduracin); bile acid sequestrants (cholestyramine, colestipol, colesevelam); an inhibitor of intestinal cholesterol absorption (ezetimibe); PCSK9 inhibitors. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 3.3. Antihypertensive agents Ways to affect the renin-angiotensin system (RAS): pharmacology of ACE inhibitors and angiotensin receptor blockers. Dihydropyridine calcium antagonists. Centrally acting drugs: alpha2-adrenergic agonists (methyldopa, guanfacine, clonidine) and agonists of I1 - imidazoline receptors. Nitrates (nitroglycerin, isosorbide dinitrate, isosorbide-5-mononitrate, molsidomine): pharmacology. The main challenges of nitrate therapy (tolerance). Theme 3.4. Antianginal drugs 1) reducing myocardial oxygen demand (b-blockers); 2) increasing oxygen supply (coronary dilators of the myotropic antispasmodic and adenosine type of action); 3) reducing myocardial oxygen demand and increasing oxygen supply (nitrates, calcium antagonists). Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 3.5. Antiarrhythmic drugs. Class I antiarrhythmics (sodium channel blockers). Subclasses Ia (quinidine, novocainamide, disopyramide, aymaline), Ib (lidocaine, mexiletine, trimecaine, diphenin), Ic (etmozine, ethacizin, propafenone, flecainide) - clinical pharmacology, indications, contraindications, side effects. ECG changes. Class II antiarrhythmics: Beta-blockers: nonselective (propranolol, nadolol, sotalol), selective (oxprenolol, metoprolol, atenolol, betaxolol, bisoprolol, nebivolol), drugs with their own sympathomimetic activity (oolokirol-1), drugs with alpha-1-blocking activity (labetalol, carvedilol). Beta-blockers in the treatment of CHF. Clinical pharmacology, indications, contraindications, side effects. ECG changes. Class III antiarrhythmics (potassium channel blockers - amiodarone, sotalol, dofetilide, ibutilide): clinical pharmacology, indications for prescription,

	ECG changes. Class IV antiarrhythmics (calcium antagonists - verapamil, diltiazem): clinical pharmacology, indications, contraindications, side effects. ECG changes. Additional antiarrhythmic drugs: adenosine, atropine, digoxin. Theme 3.6. Drugs to manage heart failure Drugs with a positive inotropic effect: cardiac glycosides, non-glycoside inotropic agents. Classification of inotropic agents. Inhibitors of RAS, gliflozins and other drugs for chronic heart failure. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Diagnostics, management, and prevention of adverse reactions. Drug interactions.
Module 4. Drugs affecting hemostasis and hematopoiesis	Theme 4.1. Drugs affecting the blood coagulation system. Antiplatelet agents: acetylsalicylic acid, clopidogrel, ticlopidine, abciximab, anagrelide, alprostadil, lysine acetylsalicylate. Direct anticoagulants: sodium heparin, low molecular weight heparins (sodium enoxaparin, nadroparin, fraxiparin). Indirect anticoagulants: warfarin, coumarins. Fibrinolytics: streptokinase, tissue plasminogen activator (alteplase, prourokinase). Synthetic selective inhibitor of activated factor X (Xa) fondaparinux sodium, rivaroxaban, direct thrombin inhibitor dabigatran. Drugs that increase blood clotting (vitamin K and its analogs, thrombin, hemostatic sponge, fibrinogen). Fibrinolysis inhibitors (aminocaproic acid). Drugs to stop bleeding in patients with hemophilia (factor VIII cryoprecipitate, antihemophilic plasma, coagulation factor VII, coagulation factor IX). Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 4.2. Drugs affecting the hematopoietic system. Iron preparations. Erythropoietin. Preparations containing folic acid, cyanocobalamin. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients.
Module 5. Drugs affecting the functions of the respiratory system, digestion and metabolic processes	Theme 5.1. Drugs affecting the functions of the respiratory system Beta-2 adreno-agonists: salbutamol, fenoterol, salmeterol, formoterol. M-anticholinergics: ipratropium bromide, tiotropium bromide. Methylxanthines: theophylline, aminophylline. Mast cell membrane stabilizers (cromoglycic acid), antileukotriene drugs (zafirlukast, montelukast,

	zileuton). Inhalation GCS. Systemic GCS. Antitussive drugs. Mucolytics, expectorants, and mucokinetic medications. Antitussive drugs of central action. 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. The concept of the stepwise therapy for bronchial asthma, therapy of chronic obstructive pulmonary disease. Receptor desensitization syndrome (tachyphylaxis, internalization and decreased regulation - the development of resistance to beta-adreno-agonists). Theme 5.2. Drugs affecting the functions of the digestive system. Pharmacology of antacids (sodium bicarbonate, calcium carbonate, aluminum hydroxide, aluminum phosphate, magnesium oxide, magnesium hydroxide). Pharmacology of H2-histamine receptor blockers (cimetidine, ranitidine, famotidine, nizatidine, roxatidine). Pharmacology of M-anticholinergics: pirenzepine. Pharmacology of proton pump inhibitors (omeprazole, esomeprazole, lansoprazole, pantoprazole, rabeprazole). Prescribing antisecretory agents for the treatment and prevention of gastric ulcer and duodenal ulcer. Pharmacology of gastrocytoprotectors (bismuth, colloidal bismuth subcitrate, misoprostol, sucralfate). Antibacterial (anti-Helicobacter) drugs in the treatment of peptic ulcer: amoxicillin, clarithromycin, tetracycline, metronidazole. Eradication of H.pylori. Theme 5.3. Hormones of the pituitary gland, hypothalamus, pineal gland, thyroid and pancreas, hypoglycemic drugs. Preparations of pituitary and hypothalamic hormones. Preparations of thyroid hormones and antithyroid drugs (L-thyroxine, mercazolil, thiamazole, potassium iodide). Antidiabetic drugs: insulins, sulfonylurea derivatives (glibenclamide), glinides (repaglinide), biguanides (metformin), α-glycosidase inhibitors (acarbose), thiazolidinediones (rosiglitazone), dipeptidyl peptidase inhibitors-4 (DPP-4) (vildagliptin), GLP-1 analogues and agonists (liraglutide), amylin analogues (pramlintide acetate), gliflozins (dapagliflozin). Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug interactions. Use in special categories of patients. Theme 5.4. Steroid hormones Sex steroids. Contraceptives. Anabolic steroids.

	Glucocorticoids. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 5.5. Drugs affecting immune system. Cytostatics: a) alkylating agents: cyclophosphamide b) antimetabolites: azathioprine methotrexate Glucocorticoids: prednisone, etc. Drugs that inhibit the formation or action of IL-2: a) antibiotics b) MAT preparations for IL-2 receptors: - Polyclonal antibodies - anti-thymocyte immunoglobulin - Monoclonal antibodies (MAT) against TNF-alpha, cytokines and their receptors. 4-aminoquinoline derivatives (chloroquine, hydroxychloroquine) D-penicillamine Gold preparations (sodium aurothiomalate, auranofin, etc.). Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications Adverse reactions. Drug interaction. Use in special categories of patients. Immunostimulants. Preparations of bacterial and fungal origin, their synthetic and semi-synthetic analogs. Preparations of animal origin. Cytokines (interferons, interleukins) and stimulators of their formation in the body. Herbal preparations. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications Adverse reactions. Drug interaction. Use in special categories of patients. Theme 5.6. Antiallergic drugs Types of allergic reactions. Pathogenesis of allergic and pseudo-allergic reactions. Drugs for the treatment of immediate-type hypersensitivity reactions: 1) agents that prevent the release of histamine and other mediators of allergy - glucocorticoids, cromoglycic acid; 2) antihistamines - H1-histamine blockers; 3) symptomatic agents - adrenergic agonists, myotropic bronchodilators. Drugs for the treatment of delayed-type hypersensitivity reactions: GCS, cytostatics. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications Adverse reactions. Drug interaction. Use in special categories of patients.
Module 6. Drugs affecting the central nervous system. Drugs affecting the nociceptive system and the synthesis of pain and inflammation	Theme 6.1. Drugs for anesthesia. Analgesics. Preparations for inhalational and intravenous anesthesia. Opioid analgesics. Non-steroidal anti-

mediators	inflammatory drugs (NSAIDs). Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients. Theme 6.2. Sedative drugs. Hypnotic agents. Anxiolytics. Antiepileptic drugs. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients. Theme 6.3. Antipsychotics. Antidepressants. Drugs to treat mania. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients. Theme 6.4. Psychostimulants. Nootropics. Drugs for neurodegenerative diseases. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients.
Module 7. Antibacterial, antiviral, and antifungal agents	Theme 7.1. Antimicrobial pharmacotherapy. Principles of rational antibiotic therapy. Beta-lactam antibiotics: Beta-lactam antibiotics. Pharmacology of penicillins (benzylpenicillin, amoxicillin, ampicillin, oxacillin, piperacillin). Pharmacology of cephalosporins (1st generation: cefazolin, cephalexin, cefaclor; 2nd generation: cefamandole, cefuroxime; 3rd generation: cefoperazone, cefotaxime, ceftriaxone; 4th generation: cefepime, 5th generation: ceftobiprole). Pharmacology of carbapenems (imipenem, meropenem) and monobactams (aztreonam). Theme 7.2. Non-beta-lactam antibiotics and synthetic antimicrobials: Non-beta-lactam antibiotics. Pharmacology of aminoglycosides (gentamicin, amikacin, tobramycin, netilmicin). Pharmacology of macrolides (erythromycin, roxithromycin, azithromycin, clarithromycin). Pharmacology of tetracyclines (tetracycline, doxycycline) and glycopeptides (vancomycin, teicoplanin). New groups of antibacteriasls: oxazolidinediones (linezolid), lipopeptides (daptomycin), gycilcyclines (tigecycline), pleuromutilins (retapamulin). Sulfonamides, quinolone and fluoroquinolone derivatives, 5-nitrofuran, imidazole derivatives. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse reactions. Drug interaction. Use in special categories of patients. Theme 7.3.Antiviral, antifungal agents. Antifungals: amphotericin B, itraconazole,

	ketoconazole, clotrimazole, nystatin, sertaconazole, fluconazole. Antivirals: anti-herpetic, anti-cytomegalovirus, anti-influenza (M2 channel blockers, neuroaminidase inhibitors), antiretroviral drugs. Theme 7.4. Anti-tuberculosis drugs. 1st line drugs, 2nd line drugs. Tuberculosis chemotherapy regimens. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients. Theme 7.5. Antiprotozoal, antisyphilitic, anthelminthic drugs Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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.
Surgical treatments The concept of complex treatment of periodontal diseases (non-surgical, surgical, orthopedic). Prevention of periodontal disease.	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/specialty code and title)

2024-2025

Course Title	**Pediatrics**
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 system in childhood
	1.4. Anatomical and physiological features of the musculoskeletal system. Diseases of the musculoskeletal system (Rickets)
Module 2 The main somatic diseases of children	**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 Pediatric infectious diseases	**3.1.** Exanthema: measles, rubella, parvovirus 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

2024-2025

Course Title	Pediatric Maxillofacial Dentistry
Course Workload	Credits and academic hours – 3 / 108
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. Anesthesia in pediatric surgical dental practice. Operation of tooth extraction in children.	Topic 1.1. Anatomical and physiological features of the child's body. Indications and contraindications for general and local anesthesia during outpatient dental surgery in children. The value of premedication . Types of local anesthesia, features of its implementation in children. Emergency conditions at an outpatient dental appointment.
	Topic 1.2. Indications and features of the extraction of temporary and permanent teeth in children. Complications during and after tooth extraction, their prevention and elimination.
	Topic 1.3. Tactics of a dentist in the presence of supernumerary, impacted and dystopic teeth in children.
Section 2. Inflammatory diseases of the maxillofacial region in children.	Topic 2.1. Features of the course of odontogenic inflammatory processes in childhood. Inflammatory processes of the soft tissues of the face: lymphadenitis, abscess, phlegmon.
	Topic 2.2. Clinical picture of acute and chronic periostitis of the jaw bones in children of different ages.
	Topic 2.3. Acute odontogenic osteomyelitis of the jaws, hematogenous osteomyelitis of newborns and young children.
	Topic 2.4. Clinical and radiological forms of chronic osteomyelitis of the jaws, principles of rehabilitation of children.
	Topic 2.5. Odontogenic inflammatory cysts in children. Possible complications, their prevention.
Section 3. Diseases of the salivary glands in children.	Topic 3.1. Inflammatory diseases of the salivary glands in children. Clinic, diagnosis and treatment.
	Topic 3.2. Salivary disease. Etiology, pathogenesis, clinical picture, diagnosis, treatment, possible complications.
	Topic 3.3. Retention cysts of small and large salivary glands. Etiology, pathogenesis, clinical picture, diagnosis, treatment, possible complications.
Section 4. Injury of the maxillofacial region in children.	Topic 4.1. Dental injuries in children: clinic, treatment, methods of immobilization, outcomes.
	Topic 4.2. Bruises and fractures of the bones of the face in children. Clinic, diagnostics. Methods of conservative and surgical treatment of fractures in children, healing time, possible complications and methods for their prevention.
	Topic 4.3. Injuries of soft tissues of the mouth and

	face in children. Features of primary surgical treatment of facial wounds.
	Topic 4.4. Burns and frostbite. Clinical picture, treatment, complications. General indications for plastic surgery in childhood. Principles of rehabilitation of children who have suffered trauma to the maxillofacial region.
Section 5. Diseases of the temporomandibular joint in children.	Topic 5.1. Primary bone diseases of the temporomandibular joint. Osteoarthritis, secondary deforming osteoarthrosis , bone ankylosis, neoarthrosis : etiology, pathogenesis, clinical picture. Diagnosis, principles of complex treatment of diseases of the temporomandibular joint in children. Methods of surgical treatment, age indications. Goals and objectives of orthodontic treatment. Methods for preventing the development of primary bone diseases.
	Topic 5.2. Functional diseases of the temporomandibular joint in childhood and adolescence. Etiology, pathogenesis, clinical manifestations. Additional examination methods (electromyography, axiography, tomography of the TMJ). Diagnosis, treatment, prevention.
Section 6. Congenital and hereditary diseases of the maxillofacial region in children.	Topic 6.1. Congenital cysts and fistulas of the maxillofacial region and neck. Dermoid and epidermoid cysts.
	Topic 6.2. Congenital cleft lip and palate. Prevalence, classification, anatomical and functional disorders, impact on the overall development of the child's body. Secondary deformations of the jaws with cleft palate. Age indications for surgical treatment, the purpose of operations. Clinical examination of children with congenital cleft lip and palate.
	Topic 6.3. Congenital pathology of the oral mucosa: anomalies of attachment of the frenulum and tongue, small vestibule of the oral cavity. Clinical picture, indications for surgical treatment, methods of operations, features of the postoperative period.
Section 7. Tumors and tumor-like processes of the maxillofacial region in children.	Topic 7.1. Benign and malignant tumors of the soft tissues of the face and oral cavity in children. Classification, clinical picture, diagnosis, differential diagnosis. Tumors and tumor-like processes of the salivary glands in children. Benign and malignant tumors of the bones of the face in children. Odontogenic formations - cysts, odontogenic tumors of the jaws. Etiology, clinical picture, diagnosis.
	Topic 7.2. Features of the clinical course of tumors and tumor-like formations in children. Tactics of surgical treatment of neoplasms of the maxillofacial region in children, indications and contraindications for the use of radiation therapy, principles of complex rehabilitation of children. The principle of oncological alertness at an outpatient dental appointment.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Pharmacology
Course Workload	Credits and academic hours – 5 / 180
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. General Pharmacology	Theme 1.1. Recipe. Introduction to Pharmacology. Types of prescriptions. Formulation rules in the Russian Federation. Types of dosage forms. ATC classification. Theme 1.2. Basic principles of pharmacodynamics Mechanisms of drug action and effects. Therapeutic index, therapeutic range. Therapeutic drug monitoring. Pharmacodynamic interaction of drugs. Theme 1.3. Basic principles of pharmacokinetics. Basic pharmacokinetic parameters and their significance. Factors affecting the value of pharmacokinetic parameters. Pharmacokinetic interaction of drugs.
Module 2. Drugs affecting afferent and efferent innervation	Theme 2.1. Drugs affecting afferent innervation. Local anesthetics. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 2.2. Cholinergic agents. Anticholinergics. Cholinomimetics. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 2.3. Adrenomimetics and sympathomimetics Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 2.4. Adrenolythics and sympatholytics. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients.
Module 3. Drugs affecting the cardiovascular system	Theme 3.1. Diuretics Carbonic anhydrase inhibitors (acetazolamide). Osmodiuretics (mannitol). Loop diuretics (bumetamide, furosemide, ethacrynic acid, torasemide). Diuretics acting on the cortical segment of Henle's loop (hydrochlorothiazide, clopamide, chlorthalidone, metolazone, indapamide). Potassium-sparing diuretics (spironolactone, eplerenone, amiloride, triamterene). Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 3.2. Lipid-lowering agents

	Statins (fluvastatin, simvastatin, pravastatin, atorvastatin, rosuvastatin); fibrates (clofibrate, bezafibrate, gemfibrozil); derivatives of nicotinic acid (niacin, enduracin); bile acid sequestrants (cholestyramine, colestipol, colesevelam); an inhibitor of intestinal cholesterol absorption (ezetimibe); PCSK9 inhibitors. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 3.3. Antihypertensive agents Ways to affect the renin-angiotensin system (RAS): pharmacology of ACE inhibitors and angiotensin receptor blockers. Dihydropyridine calcium antagonists. Centrally acting drugs: alpha2-adrenergic agonists (methyldopa, guanfacine, clonidine) and agonists of I1 - imidazoline receptors. Nitrates (nitroglycerin, isosorbide dinitrate, isosorbide-5-mononitrate, molsidomine): pharmacology. The main challenges of nitrate therapy (tolerance). Theme 3.4. Antianginal drugs 1) reducing myocardial oxygen demand (b-blockers); 2) increasing oxygen supply (coronary dilators of the myotropic antispasmodic and adenosine type of action); 3) reducing myocardial oxygen demand and increasing oxygen supply (nitrates, calcium antagonists). Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 3.5. Antiarrhythmic drugs. Class I antiarrhythmics (sodium channel blockers). Subclasses Ia (quinidine, novocainamide, disopyramide, aymaline), Ib (lidocaine, mexiletine, trimecaine, diphenin), Ic (etmozine, ethacizin, propafenone, flecainide) - clinical pharmacology, indications, contraindications, side effects. ECG changes. Class II antiarrhythmics: Beta-blockers: nonselective (propranolol, nadolol, sotalol), selective (oxprenolol, metoprolol, atenolol, betaxolol, bisoprolol, nebivolol), drugs with their own sympathomimetic activity (oolokirol-1), drugs with alpha-1-blocking activity (labetalol, carvedilol). Beta-blockers in the treatment of CHF. Clinical pharmacology, indications, contraindications, side effects. ECG changes. Class III antiarrhythmics (potassium channel blockers - amiodarone, sotalol, dofetilide, ibutilide): clinical pharmacology, indications for prescription, ECG changes. Class IV antiarrhythmics (calcium antagonists -

	verapamil, diltiazem): clinical pharmacology, indications, contraindications, side effects. ECG changes. Additional antiarrhythmic drugs: adenosine, atropine, digoxin. Theme 3.6. Drugs to manage heart failure Drugs with a positive inotropic effect: cardiac glycosides, non-glycoside inotropic agents. Classification of inotropic agents. Inhibitors of RAS, gliflozins and other drugs for chronic heart failure. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Diagnostics, management, and prevention of adverse reactions. Drug interactions.
Module 4. Drugs affecting hemostasis and hematopoiesis	Theme 4.1. Drugs affecting the blood coagulation system. Antiplatelet agents: acetylsalicylic acid, clopidogrel, ticlopidine, abciximab, anagrelide, alprostadil, lysine acetylsalicylate. Direct anticoagulants: sodium heparin, low molecular weight heparins (sodium enoxaparin, nadroparin, fraxiparin). Indirect anticoagulants: warfarin, coumarins. Fibrinolytics: streptokinase, tissue plasminogen activator (alteplase, prourokinase). Synthetic selective inhibitor of activated factor X (Xa) fondaparinux sodium, rivaroxaban, direct thrombin inhibitor dabigatran. Drugs that increase blood clotting (vitamin K and its analogs, thrombin, hemostatic sponge, fibrinogen). Fibrinolysis inhibitors (aminocaproic acid). Drugs to stop bleeding in patients with hemophilia (factor VIII cryoprecipitate, antihemophilic plasma, coagulation factor VII, coagulation factor IX). Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 4.2. Drugs affecting the hematopoietic system. Iron preparations. Erythropoietin. Preparations containing folic acid, cyanocobalamin. Classification. Pharmacodynamics, mechanism of action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients.
Module 5. Drugs affecting the functions of the respiratory system, digestion and metabolic processes	Theme 5.1. Drugs affecting the functions of the respiratory system Beta-2 adreno-agonists: salbutamol, fenoterol, salmeterol, formoterol. M-anticholinergics: ipratropium bromide, tiotropium bromide. Methylxanthines: theophylline, aminophylline. Mast cell membrane stabilizers (cromoglycic acid), antileukotriene drugs (zafirlukast, montelukast, zileuton). Inhalation GCS. Systemic GCS. Antitussive drugs. Mucolytics, expectorants, and

	mucokinetic medications. Antitussive drugs of central action. 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. The concept of the stepwise therapy for bronchial asthma, therapy of chronic obstructive pulmonary disease. Receptor desensitization syndrome (tachyphylaxis, internalization and decreased regulation - the development of resistance to beta-adreno-agonists). Theme 5.2. Drugs affecting the functions of the digestive system. Pharmacology of antacids (sodium bicarbonate, calcium carbonate, aluminum hydroxide, aluminum phosphate, magnesium oxide, magnesium hydroxide). Pharmacology of H2-histamine receptor blockers (cimetidine, ranitidine, famotidine, nizatidine, roxatidine). Pharmacology of M-anticholinergics: pirenzepine. Pharmacology of proton pump inhibitors (omeprazole, esomeprazole, lansoprazole, pantoprazole, rabeprazole). Prescribing antisecretory agents for the treatment and prevention of gastric ulcer and duodenal ulcer. Pharmacology of gastrocytoprotectors (bismuth, colloidal bismuth subcitrate, misoprostol, sucralfate). Antibacterial (anti-Helicobacter) drugs in the treatment of peptic ulcer: amoxicillin, clarithromycin, tetracycline, metronidazole. Eradication of H.pylori. Theme 5.3. Hormones of the pituitary gland, hypothalamus, pineal gland, thyroid and pancreas, hypoglycemic drugs. Preparations of pituitary and hypothalamic hormones. Preparations of thyroid hormones and antithyroid drugs (L-thyroxine, mercazolil, thiamazole, potassium iodide). Antidiabetic drugs: insulins, sulfonylurea derivatives (glibenclamide), glinides (repaglinide), biguanides (metformin), α-glycosidase inhibitors (acarbose), thiazolidinediones (rosiglitazone), dipeptidyl peptidase inhibitors-4 (DPP-4) (vildagliptin), GLP-1 analogues and agonists (liraglutide), amylin analogues (pramlintide acetate), gliflozins (dapagliflozin). Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug interactions. Use in special categories of patients. Theme 5.4. Steroid hormones Sex steroids. Contraceptives. Anabolic steroids. Glucocorticoids. Classification. Pharmacodynamics, mechanism of

	action. Pharmacokinetic parameters. Indications. Contraindications Adverse reactions. Drug interactions. Use in special categories of patients. Theme 5.5. Drugs affecting immune system. Cytostatics: a) alkylating agents: cyclophosphamide b) antimetabolites: azathioprine methotrexate Glucocorticoids: prednisone, etc. Drugs that inhibit the formation or action of IL-2: a) antibiotics b) MAT preparations for IL-2 receptors: - Polyclonal antibodies - anti-thymocyte immunoglobulin - Monoclonal antibodies (MAT) against TNF-alpha, cytokines and their receptors. 4-aminoquinoline derivatives (chloroquine, hydroxychloroquine) D-penicillamine Gold preparations (sodium aurothiomalate, auranofin, etc.). Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications Adverse reactions. Drug interaction. Use in special categories of patients. Immunostimulants. Preparations of bacterial and fungal origin, their synthetic and semi-synthetic analogs. Preparations of animal origin. Cytokines (interferons, interleukins) and stimulators of their formation in the body. Herbal preparations. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications Adverse reactions. Drug interaction. Use in special categories of patients. Theme 5.6. Antiallergic drugs Types of allergic reactions. Pathogenesis of allergic and pseudo-allergic reactions. Drugs for the treatment of immediate-type hypersensitivity reactions: 1) agents that prevent the release of histamine and other mediators of allergy - glucocorticoids, cromoglycic acid; 2) antihistamines - H1-histamine blockers; 3) symptomatic agents - adrenergic agonists, myotropic bronchodilators. Drugs for the treatment of delayed-type hypersensitivity reactions: GCS, cytostatics. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications Adverse reactions. Drug interaction. Use in special categories of patients.
Module 6. Drugs affecting the central nervous system. Drugs affecting the nociceptive system and the synthesis of pain and inflammation mediators	Theme 6.1. Drugs for anesthesia. Analgesics. Preparations for inhalational and intravenous anesthesia. Opioid analgesics. Non-steroidal anti-inflammatory drugs (NSAIDs). Classification. Pharmacodynamics and

	pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients. Theme 6.2. Sedative drugs. Hypnotic agents. Anxiolytics. Antiepileptic drugs. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients. Theme 6.3. Antipsychotics. Antidepressants. Drugs to treat mania. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients. Theme 6.4. Psychostimulants. Nootropics. Drugs for neurodegenerative diseases. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients.
Module 7. Antibacterial, antiviral, and antifungal agents	Theme 7.1. Antimicrobial pharmacotherapy. Principles of rational antibiotic therapy. Beta-lactam antibiotics: Beta-lactam antibiotics. Pharmacology of penicillins (benzylpenicillin, amoxicillin, ampicillin, oxacillin, piperacillin). Pharmacology of cephalosporins (1st generation: cefazolin, cephalexin, cefaclor; 2nd generation: cefamandole, cefuroxime; 3rd generation: cefoperazone, cefotaxime, ceftriaxone; 4th generation: cefepime, 5th generation: ceftobiprole). Pharmacology of carbapenems (imipenem, meropenem) and monobactams (aztreonam). Theme 7.2. Non-beta-lactam antibiotics and synthetic antimicrobials: Non-beta-lactam antibiotics. Pharmacology of aminoglycosides (gentamicin, amikacin, tobramycin, netilmicin). Pharmacology of macrolides (erythromycin, roxithromycin, azithromycin, clarithromycin). Pharmacology of tetracyclines (tetracycline, doxycycline) and glycopeptides (vancomycin, teicoplanin). New groups of antibacteriasls: oxazolidinediones (linezolid), lipopeptides (daptomycin), gycilcyclines (tigecycline), pleuromutilins (retapamulin). Sulfonamides, quinolone and fluoroquinolone derivatives, 5-nitrofuran, imidazole derivatives. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse reactions. Drug interaction. Use in special categories of patients. Theme 7.3.Antiviral, antifungal agents. Antifungals: amphotericin B, itraconazole, ketoconazole, clotrimazole, nystatin, sertaconazole, fluconazole.

	Antivirals: anti-herpetic, anti-cytomegalovirus, anti-influenza (M2 channel blockers, neuroaminidase inhibitors), antiretroviral drugs. Theme 7.4. Anti-tuberculosis drugs. 1st line drugs, 2nd line drugs. Tuberculosis chemotherapy regimens. Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients. Theme 7.5. Antiprotozoal, antisyphilitic, anthelminthic drugs Classification. Pharmacodynamics and pharmacokinetics. Indications. Contraindications. Adverse drug reactions. Drug-drug interactions. Use in special categories of patients.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Philosophy
Course Workload	Credits and academic hours - 2 credits (72)
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 beginning of philosophy in ancient China. UNIT 3. The beginning of philosophy in ancient Greece (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 ethics: hypothetical and categorical imperatives. Religious values and the problem of reevaluation of values. 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. Justice: metaphysical and social levels. Theory of

	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 principles of contemporary worldview.
PHILOSOPHICAL STUDY OF KNOWLEDGE AND COGNITION	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.
PHILOSOPHYCAL ANTHROPOLOGY	UNIT 12. The study of human nature. Natural and cultural components of human being. Mundane and divine components of human being. 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.
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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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Propaedeutics of dental diseases
Course Workload	Credits and academic hours – 7 / 252
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. Propaedeutics of therapeutic dentistry. Module 1,2.	Topic 1.1. Examination of the patient in the practice of a dentist. Medical documentation, medical history. Basic and additional examination methods. Instruments for examination of a dental patient. Rules for filling in the dental formula.
	Topic 1.2. The concept of caries, classification. The pathogenesis of the development of the carious process. Methods of caries treatment. The stages of cavity preparation. Isolation of the operating field: cofferdam.
	Topic.3. Principles and stages of preparation of carious cavities of the I, Black class and VI class. Elements of the formed cavity. The toolkit. Restoration with various materials. Possible mistakes 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. The toolkit. Restoration with various materials. Possible mistakes and complications, their prevention.
	Topic 1.5. The basic principles and stages of preparation of carious cavities of class II according to Black. Restoration with various materials. Possible mistakes and complications, their prevention.
	Topic 1.6. The basic principles and stages of preparation of carious cavities of class III according to Black. Restoration with various materials. Possible mistakes and complications, their prevention.

	Topic 1.7. The basic principles and stages of preparation of carious cavities of class IV according to Black. Restoration with various materials. Possible mistakes and complications, their prevention.
	Topic 1.8. Colloquium on the section.
	Topic 1.9. The concept of endodontics, periodontitis, periodontitis. The pulp of the tooth, its meaning. Anatomical and topographic features of the structure of the dental cavity of the upper and lower jaw. Indications for endodontic treatment. Methods of treatment of pulpitis. Stages of endodontic treatment. The concept of "opening" and opening of the tooth cavity. Anatomical and topographic landmarks used to open the cavity of an intact tooth. Mistakes in the opening of the tooth cavity and their prevention.
	Topic 1.10. Endodontic tools, purpose, standardization. Tools for processing the mouth of the root canal, passage and expansion. Types of movement of instruments in the channel. Methods for determining the working length of the root canal. Mistakes in determining the working length.
	Topic 1.11. A standardized method of root canal treatment. Stages of endodontic treatment of the root canal. Medicinal products for root canal treatment. Methods of chemical expansion of root canals. Mistakes in mechanical and medical treatment of the root canal.
	Topic 1.12. Instrumental and medical treatment of root canals. The "step-back" and "crown-down" methods. Mistakes in mechanical and medical treatment of the root canal.
	Topic 1.13. Devitalizing (necrotizing) agents, their purpose and application of Impregnation methods of pulpitis treatment. Complications in the impregnation methods of pulpitis treatment.

	Topic 1.14. Methods of root canal obturation. The technique of filling root canals with one paste and the method of one (central) pin. Complications, their prevention.
	Topic 1.15. Methods of root canal obturation. The method of lateral and vertical condensation. Complications and their prevention.
	Topic 1.16. Colloquium on the section.
	Topic 1.17. A credit lesson.
	In total: 17 lessons (2nd year – 3 semester).
Section 2. Propaedeutics of orthopedic dentistry. Module 3,4.	Topic 2. 1. Biomechanics of lower jaw movements. The concept of the dental, alveolar and basal arches (Kemeni arches). Occlusion, types of bite. Definition of central occlusion, signs.
	Topic 2.2. Biomechanics of lower jaw movements. The concept of an occlusal surface and an occlusal plane. Articulation and dynamic occlusion. Paths and angles during movements of the mandible in various planes. Occludator, application. Articulator, application.
	Topic 2.3. Defects of the crown part of the tooth and restoration of the crown by orthopedic methods and surgical procedures. Indications for the use of tabs. Features of preparation of the tooth under the tab. Tab manufacturing methods (direct, indirect).
	Topic 2.4. Types of artificial crowns, indications for use. Requirements for artificial crowns. Features of preparation of teeth for stamped crowns, tools. Clinical and laboratory stages of manufacturing a stamped crown.

	Topic 2.5. Indications and contraindications for orthopedic treatment of defects in the crown of the tooth and dentition with cast, metal-ceramic, metal-plastic non-removable structures. Materials for their manufacture. Features of dental odontopreparation for cast, metal-ceramic, metal-plastic crowns. Gum retraction and its types. A two-layer impression (impression) is its purpose, materials for removing the impression. Production of a combined collapsible model, materials, methods. The concept of "ledge", its purpose, types. Clinical and laboratory stages of their manufacture.
	Topic 2.6. Cast crowns with plastic and ceramic cladding. Requirements for the frame of such structures and cladding material, their physico-chemical properties. A two-layer impression (impression) is its purpose, materials for removing the impression. Technological features in the manufacture of metal-plastic and metal-ceramic dentures. The method of manufacturing temporary (replacement) structures. Features of odontopreparation of teeth for an all-ceramic crown. Clinical and laboratory stages of manufacturing of all-ceramic structures.
	Topic 2.7. Indications for the treatment of dental defects with bridges, materials used for this purpose. Features of dental preparation in the manufacture of bridges. Clinical and laboratory stages of manufacturing.
	Topic 2.8. Pin designs: standard and individually made. Clinical and laboratory stages of manufacturing.
	Topic 2.9. Colloquium on the section.
Section 3. Propaedeutics of surgical dentistry. Module 5,6.	Topic 3.1. Anatomical and topographic features of the structure and innervation of the upper and lower jaw. Anesthetics. Instruments for injection anesthesia. Types of local anesthesia in dentistry. Peripheral (application and infiltration) anesthesia. Types and methods of conducting. Indications for use.
	Topic 3.2. Methods and methods of conducting conduction anesthesia on the upper jaw.

	Topic 3.3. Methods and techniques of conducting conductive anesthesia on the lower jaw.
	Topic 3.4. Indications and contraindications for tooth extraction surgery. The stages of tooth extraction. Features of the structure of forceps for the operation of removing teeth of the upper and lower jaw. Methods of holding forceps.
	Topic 3.5. Tools, methods and features of tooth extraction and their roots on the upper jaw. The position of the doctor and the patient when removing teeth and their roots on the upper jaw.
	Topic 3.6. Tools, methods and features of tooth extraction and their roots on the lower jaw. The position of the doctor and the patient when removing teeth and their roots on the lower jaw.
	Topic 3.7. The technique of removing the roots of teeth on the upper and lower jaw using elevators and a drill. Wound treatment after complex tooth extraction and care for it.
	Topic 3.8. General and local complications of local anesthesia and tooth extraction surgery. The reasons and tactics of the dentist.
	Topic 3.9. Colloquium on the section.
	In total: 18 lessons (2nd year – 4 semester)

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Prevention and Public Dental Health
Course Workload	Credits and academic hours – 7 / 252
Course contents	
Course Module Title	**Brief Description of the Module Content**
Basics of sanitary and anti-epidemic regime in dentistry. Providing first emergency dentist in ambulatory conditions of reception. Diagnostic methods used in dentistry. Examination of dental patient. Epidemiology of dental diseases. The prevalence and intensity of dental diseases.	The main provisions of sanitation and hygiene. System of medical care in the Russian Federation. Principles of organization of dental care, conducting medical examination of patients with dental disease. Etiology, pathogenesis, clinical manifestations and diagnosis of major 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 maxillofacial region. Activities aimed at the preservation and promotion of health and includes the formation of a healthy lifestyle. Organization of protection of the population in the outbreak of especially dangerous infections, worsening of the radiation situation, natural disasters and other emergency situations. Clinical examination, as a method for monitoring the health of the population.	Methods and caries prophylaxis of teeth, its complications, diseases of the hard tissues of origin of non-carious teeth. Methods and means of preventing periodontal diseases. Methods and tools for dental education, its goals, objectives, means and modalities of. Fundamentals of dental epidemiological survey of the population (goals, 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. Fundamentals of types and methods of 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.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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**
Theoretical foundations of physiotherapy, physioprophylaxis. Organization of physiotherapeutic dental care.	Physiological mechanisms of action of physical factors. Organization of physiotherapeutic dental care. Documentation in the work of the physiotherapy room. Safety basics.
Galvanization, drug electrophoresis and depophoresis in dentistry.	The mechanism of physical and physiological action of direct current, therapeutic effects in the treatment of dental diseases. Depophoresis technique
Pulse currents of low and medium frequency and their application in dentistry.	Indications and contraindications for use in dental practice impulse currents of low and medium frequency. Electrical anesthesia
Physical methods in the diagnosis and treatment of diseases of the hard tissues of the tooth.	Electroodontodiagnostics, fluctuorization, amplipulse therapy. Technique and methodology.
High frequency alternating current, electric and electromagnetic fields and their application in dentistry.	High frequency alternating current, electric and electromagnetic fields, their application in dentistry
Basic algorithms for the use of physical factors in the treatment of various dental diseases. Ultrasound therapy in dentistry.	Diathermy, diathermocoagulation - physical and physiological action, therapeutic effects. Methodology for diathermocoagulation of the pulp in the root canal, granulation in the periodontal pocket. Therapeutic effects of ultrasound. Indications and contraindications for use.

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Physics
Course Workload	Credits and academic hours – 2/72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Introductory lecture. Fundamentals of vector and mathematical analysis	Methods of processing of measurement results. Direct and indirect measurements. Theory of errors. Types of errors: gross, systematic, 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. Weightlessness.Longitudinal and transverse waves. Ultrasound.
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 thermal r radiation. The radiation of the Sun. Application of Kir temperature. Calculation of the radiation temperature Lasers and their application.
Atomic structure. EPR. NMR. Ionizing radiation.	Atomic structure. Nuclear force. Isotopes. Electronic paramagnetic resonance. Nuclear magnetic resonance. Principles of magnetic resonance imaging. Electronpositron tomography. Ultraviolet radiation and its application. X-ray radiation and its use in land management. Radioactive radiation. Detection and dosimetry of ionizing radiation

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

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 Methodical and practical	**1.1.** Self control in physical exercising and 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

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Physical Culture
Course Workload	Credits and academic hours – 2/72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1 Methodical and practical	**1.1.** Self control in physical exercising and 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

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Prosthodontics (Complex Prosthetics)
Course Workload	Credits and academic hours - 8 credits /288 hours
Course contents	
Course Module Title	**Brief Description of the Module Content**
Section 1. Replacement of dentition defects with fixed prosthodontics structures	Topic 1.1. Partial teeth absence. Methods of patient examination. Clinical and biomechanical justification of the use of dental bridges. Indications and contraindications for the use of bridges. Criteria for choosing the number of abutment teeth. Types of dental bridges. Fitting and fixation the bridges. Quality criterias of prosthetic treatment with bridges. Instruction for dental bridges usage.
	Topic 1.2. Clinical and lab stages of prosthetic treatment with bridges.
	Topic 1.3. Peculiarities of abutment teeth preparation while manufacturing a bridge.
	Topic 1.4 Fitting and fixation of a bridge. . Quality criterias of prosthetic treatment with bridges. Instruction for dental bridges usage.
Section 2. Removable denture treatment	Topic 2.1. Examination of patient with partial teeth absence for future planing removable prostheses. Indications and contraindications for removable denture.
	Topic 2.2. Types of removable dentures in case of partial absence of teeth. Clinical and laboratory stages of prosthetic treatment with removable dentures. Fixation methods for partial lamellar dentures, quality criteria.
	Topic 2.3. Clasp dentures. Indications for use, basic structural elements. Clinical and laboratory stages of their manufacturing. Quality criteria. Rules for the use and care of lamellar and clasp dentures.

Section 3. Prosthetic treatment of periodontal diseases	Topic 3.1. Etiology, pathogenesis, classification, clinical manifestations of periodontal disease. Modern methods of diagnosis in the clinic of prosthetic dentistry. Topic 3.2. Clinical and biomechanical substantiation of the orthopedic stage of complex treatment of patients with periodontal disease, especially the design of medical devices and prostheses.
	Topic 3.3. Clinical and laboratory stages of manufacturing splinting structures.
Section 4. Prosthetic treatment of increased abrasion of hard tissues of teeth	Topic 4.1. Etiology, pathogeny, classification, and clinical symptoms of excessive attrition of teeth. Diagnostic aids and prosthetic restoration of excessive attrition of teeth.
	Topic 4.2. Methods of preparing the oral cavity for prosthetics with excessive tooth attrition.
	Topic 4.3. Methods of prosthetic treatment of patients with various clinical manifestations of tooth attrition.
Section 5. Prosthetic treatment of deformations and anomalies of dentition and bite.	Topic 5.1. Etiology, pathogenesis, classification, clinical manifestations of deformation of the dentition and bite in the partial absence of teeth. Modern methods of diagnosis.
	Topic 5.2. Methods of elimination of deformation and justification of tactics of management of patients with this pathology. Stages of treatment.
Section 6. Prosthetic treatment of patients with dentures supported by implants	Topic 6.1. Indications and contraindications to the use of implant supported denturs. Features of clinical and laboratory stages of prosthetic treatment with removable and fixed implant-supported dentures.
	Topic 6.2. Features of clinical and laboratory stages of prosthetic treatment with removable implant-supported dentures.
	Topic 6.3. Features of clinical and laboratory stages of prosthetic treatment with implant-supported fixed dentures.
Section 7. Prosthetic treatment of patients with somatic diseases. Prosthetic treatment of patients with chronic diseases of the oral cavity.	Topic 7.1. Tactics of prosthetic treatment patients with somatic pathology (CVS, GIT, endocrine diseases, cancer of oral cavity, mental diseases, infection diseases (HIV, tuberculosis, candida), chronic diseases of skin and mucous of oral cavity and lips) who are in need of prosthetic rehabilitation.
	Topic 7.2. Intolerance of materials and structures of dentures. Diagnosis,

	prevention, features of secondary prosthetics.
Section 8. Phonetic aspects of prosthetic treatment with the use of removable and fixed dental and jaw prostheses	Topic 8.1. Fundamentals of phonetics and articulation in prosthetic dentistry. Influence of design features of removable denture bases, location of posterior teeth, crown height, palatal surface shape, interalveolar distance on sound pronunciation disorders. The main methods for assessing speech function in prosthetic dentistry.
Section 9. Aesthetic aspects of prosthetics of teeth and dentition	Topic 9.1. Basic aesthetic proportions of the face, teeth and dentition. Methods for assessing the quality of dentures in an aesthetically significant area: photo and video diagnostics. Modern methods for assessing the parameters of color and transparency of teeth. Characteristics of modern denture materials for aesthetic constructions Methods of computer planning of complex dental functional and aesthetic rehabilitation in the smile area, DSD technique, "white and pink" aesthetics of a smile. Modern methods of diagnostics and prosthetic treatment of patients with teeth discoloration. .
	Topic 9.2. Application of "wax up" and "mock-up" techniques in aesthetic prosthetics. Computer technologies for manufacturing prototypes of dentures. Features of fixation of dentures from the standpoint of aesthetics

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Public Health and Healthcare
Course Workload	Credits and academic hours - 2 / 72
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Methods of analysis and assessment of public health.	Public health and health care as a science and subject of 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 of medical institutions. Organization of the activities of the dental service.	Theoretical foundations and principles of healthcare organization. Organization of outpatient and inpatient 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, disease prevention.	Modern problems of disease prevention and public health promotion. Participation of public organizations in the protection of public health. Family as an object of medical and social research and primary health care.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

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 delusional syndromes. Catatonic and hebephrenic syndromes. Affective syndromes. Neurotic syndromes.
Private Psychiatry and Narcology	Study of major mental illnesses. Organic and symptomatic 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. Treatment regimens for major diseases, emergency care in psychiatry. Methods for the treatment of mental illness. 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.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Prosthodontics of edentulous patient
Course Workload	Credits and academic hours - 3 / 108
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Methods of survey, diagnostics of patiens with edentulous jaws	Topic 1.1. Peculiarities of clinical survey of patiens with 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.
Module 2. Methods of prostetic treatment of patiens with edentulous jaws	Topic 2.1. Fixation and stabilization of complete dentures. 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.The borders of denture's basis with edentulous jaws.

	Topic 2.2. 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. Try-in of wax construction of complete dentures.
	Topic 2.3 Analysis and correction of doctors' and dental technician mistakes in determination of centric relation. Delivery of full dentures. Rules of maintenance and adjustments of full dentures. Patient follow-up. Adaptation to complete dentures.
Module 3. Clinical and laboratory stages of manufacturing complete dentures	Topic 3.1. Compression and injection molding of acrylic resin, computer assisted milling and 3D printing of base and artificial teeth.
	Topic 3.2. Methods of flasking of dentures. Types of resin for denture base. Polymerization mode. The consequences of violating the polymerization mode. Clinical and laboratory stages of manufacturing of complete denture with various base (acrylic, double-layered, replication of palatal rugae).
	Topic 3.3. 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

2024-2025

Course Title	Radiodiagnosis
Course Workload	Credits and academic hours – 3 / 108
Course contents	
Course Module Title	**Brief Description of the Module Content**
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.Basis of radionuclide methods	Principles of radionuclide diagnostics, typical radionuclide diagnostic system, classification of radionuclide examinations, choice of radiopharmaceuticals depending on their physical and biological properties, the concept of their half-life
4. X-ray computed tomography (CT) and magnetic resonance imaging (MRI)	CT and principles of getting images in CT. Distinctions from conventional tomography, areas of use, indications and contraindications. MRI and principles of getting images in MRI. Indications and contraindications.
5. X-ray methods for facial-jaw area	All methods of internal and external radiography of teeth are discussed. Classification of general-view radiographs, intra-mouth, external radiographs, radiography in oblique contact and tangential projections.
6. Development and anatomy of teeth and jaws in radiography	Three periods of teeth development. X-ray variants and characteristics of each period (degree of mineralization, stages of radices' formation). Reasons of delays of dentition, their diagnosis.
7. Diagnostics of in-born and acquired deformities of facial-jaws region.	Various anomalies of teeth position and development: change of their number, size, shape and structure. X–ray picture and clinical signs in each kind of teeth anomaly, diagnostic value of X-ray methods in such cases.

8. X-ray diagnostics of caries, pulpitis, periodontitis, paradontium diseases.	X-ray features of caries depth depending on size and localization. Differential diagnostics of caries in X-ray examination. Algorithm of X-ray examinations in caries. X-ray examination in pulpitis. Classification of periodontitis (acute apical, chronic granulating, chronic fibrous, exacerbation of a chronic periodontitis), its X-ray features and algorithm of its diagnostics
9. X-ray diagnostics of traumas of the jaws and teeth. Temporomandibular joint	Classification of the main and indirect fractures of maxilla, mandible, cheekbone. Various diagnostic methods in facial-jaw traumas.
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 jaws. The main methods of radiation therapy.	The main groups of odontogenic and non-odontogenic cysts, their X-ray features used for differential diagnostics. The main methods of X-ray diagnostics of those cysts. The main groups of benign tumors: odontomas, ameloblastomas, cementomas, mixomas, odontogenic fibromas, osteoclastomas, their radiological presentation, aspects of differential diagnostics.
12. Diagnostic radiology in salivary glands' diseases	Anatomical features of parotid, submandibular and sublingual salivary glands, classification of their diseases depending on etiology and pathogenesis, characteristic X-ray features of various diseases. Classification of X-ray signs of the salivary glands diseases. Sialography, the contrasts used for it, indications for it and contraindications, its diagnostic value.
13. Radiation oncology.	Equipment for radiotherapy. Topometry. Methods of radiotherapy. Radiotherapy from 1 field and multiple fields. External radiotherapy, intra-tissue irradiation.
14. Basic principles of radiotherapy for tumors of facial-jaw region.	Variants of radiotherapy and their use in the diseases of facial-jaw tumors, possible combination of radiotherapy with other methods of treatment.

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Russian as a Foreign Language
Course Workload	Credits and academic hours **- 3 /108**
Course contents	
Course Module Title	**Brief Description of the Module Content**
Sections 1. OBJECT AND ITS CHARACTERISTICS	**Topics 1.1.** The structure of an object
	Topics1.2. Qualitative and quantitative characteristics, properties of the object
	Topics 1.3. The function of the object
	Topics 1.4. Classification of objects
Sections 2. BIOLOGICAL OBJECT (PATHOGENIC MICROORGANIZM) AND ITS CHARACTERISTICS	**Topics 2.1**. General characteristics of the object
	Topics 2.2. Development (life-cycle) of a biological object
	Topics 2.3. General characteristic of a disease caused by pathogenic microorganism

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	Russian language for foreign students
Course Workload	Credits and academic hours - 20/720
Contents of the section	
Course Module Title	**Brief Description of the Module Content**
UNIT 1. STOMATOLOGICAL DISEASE	Topic 1.1. Topic Etiology of stomatological disease (pathological state)
	Topic 1.2. The development of dental disease (pathological state)
	Topic 1.3. Clinical picture of dental disease
UNIT 2.TREATMENT OF DENTAL DISEASE	Topic 2.1. Methods of examination of the patient with dental problems
	Topic 2.2. Dental disease treatment methods
	Topic 2.3. Stages of dental treatment Diseases
	Topic 2.4 Dentist's recommendations, disease prevention

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COURSE DESCRIPTION

31.05.03 Dentistry
field of studies / speciality code and title

2024-2025

Course Title	**Russian Language and Speech Culture**
Course Workload	Credits and academic hours - **2/72 hours**
Contents of the section	
Course Module Title	**Brief Description of the Module Content**
Section 1. **CULTURE OF EDUCATIONAL-SCIENTIFIC AND EDUCATIONAL-PROFESSIONAL COMMUNICATION**	Topic 1.1. Language and speech. Topic 1.2. A culture of speech. Topic 1.3. Basic concepts of the course. Topic 1.4. Literary language and literary and linguistic norm. Topic 1.5. Norm types. Topic 1.6. Speech and its characteristics. Topic 1.7. speech impact. Topic 1.8. Methods of persuasion. Topic 1.9. Basic norms and rules of non-verbal and speech etique
Section 2. **CULTURE OF PROFESSIONAL AND BUSINESS COMMUNICATION**	Topic 2.1. Professional business communication: essence, features, innovative technologies, means. Topic 2.2. Communicative portrait and communicative acmeogram of a specialist. Topic 2.3. Oral professional and business communication: a general concept, basic communicative forms and their features. Topic 2.4. Written professional speech of a doctor. Topic 2.5. Innovative infocommunication technologies of professional and communicative interaction. Topic 2.6. Tolerant intercultural professional and business communication: basic principles and strategies.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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**
Section 1. General characteristics of the process	Topic 1.1. The essence of the process. Topic 1.2. Process definition. Topic 1.3. The presence of a process. Topic 1.4. Distributors with the value of the circumstantial characteristic of the process. Topic 1.5. Classification of processes. Types of processes. Sign of classification and types of processes. Process carriers.
Section 2. Staged process	Topic 2.1. The presence and number of stages of the process. Topic 2.2. The sequence of process steps and the place of the step in the process. processes occurring at each stage.
Section 3. Process mechanisms.	Topic 3.1. Changing the qualitative and quantitative characteristics of the object: changing the size, shape. Topic 3.2. The appearance of a new object and its death (disappearance). Topic 3.3. Changing the location of an object (movement). Changing the dynamics of the process. Changing the intensity of the process. Topic 3.4. Violation and termination of the process.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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 materials, metals, ceramics, and polymers and their physical and chemical properties.**
	Topic 1.2. Basic and auxiliary materials in prosthetic dentistry. Dental impression materials. Classification, composition, physicochemical properties. Requirements. Standard impression spoons.
	Topic 1.3. Gypsum, physicochemical properties, composition. Standardization according to GOST (microscopy (alpha, beta)). Method of working. Features of hardening with inhibitors and catalysts.
	Topic 1. 4. Dental wax. Requirements, classification, physicochemical properties, composition. 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. Application in dentistry.
	Topic 1.8. Colloquium 1.
2.Module Materials science in Conservative dentistry.	Topic 2. 1. Classification of materials used in restorative dentistry. Classification of filling materials, quality standards, physicochemical and biological properties, composition. Requirements for filling material.Mineral cement, materials used for temporary 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.
3.Module Materials science in surgical dentistry.	Topic 3.1. Materials in surgical dentistry. Materials for surgical sutures. Surgical needles. Requirements. Dental implants, materials used to manufacture them.
	Topic 3.2. Colloquium 2.
	Topic 3.3. Final colloquium.
	Total: 18 lessons (1 course - 2 semester).

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

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. 8. Vascular disease. Varicose disease. Diagnostics. Clinic, complications. Treatment. Atherosclerosis of vessels of the lower extremities. Clinic. Diagnostics. Treatment. Complications. Differential diagnosis of atherosclerosis and obliterating endarteritis of the lower extremities. 9. Thyroid disease. Thyrotoxic goiter. Clinic. Diagnostics. Treatment. Graves' disease. Clinic. 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

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field of studies / speciality code and title

2024-2025

Course Title	Telemedicine
Course Workload	Credits and academic hours – 1/36
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

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COURSE DESCRIPTION

31.05.03 Dentistry

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2024-2025

Course Title	Three-dimensional Computer Modeling of Teeth
Course Workload	Credits and academic hours - 2/72
Course contents	
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 system. History and development of CAD / CAM systems in Russia and mire. Historical 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.

Developers:

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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

2024-2025

Course Title	Three-dimensional x-ray Diagnostic Methods in Dentistry
Course Workload	Credits and academic hours – 2/72
Course 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 practical part. Education of the patient positioning during radiation survey	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.
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. The practical part. Working with CT scanning zone for analysis to identify pathological formations	Diagnosing dental caries according to CBCT. Non-carious lesions of dental hard tissues. dental anomalies. Periodontitis and their X-ray picture. Parodont. Periodontal structure. Vizaulizatsiya and evaluation of periodontal according cone-beam computed tomography.
Rentgenosemiotika major dental diseases dental reception. The practical part. Working with CT scanning zone for analysis to identify pathological formations	Retention and misplacement teeth. Anomalies of the teeth and jaws. Odontogenic cysts and neodontogennye. Diagnosis by computed tomography. Evaluation of prevalence. Planning for dental implantation according to the radiological survey
Using programs viewer cone-beam computed	Testing of manual skills on the possibility of

tomography to analyze a pathological condition The practical part. skills development of work programs in order to maximize the information for the purpose of diagnosis and treatment.	obtaining a diagnostic image of the tooth, jaw, or anatomical structure. Conducting linear measurements. Adjusting the picture viewing mode. Construction of the panoramic imaging zonogrammy and lateral cross-sections. Ability to work in 3D-mode.

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COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024-2025

Course Title	Topographic anatomy and operative surgery of the head and neck
Course Workload	Credits and academic hours - 3 credits, 108 hours
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Topographic anatomy of the head	**Theoretical foundations of topographic anatomy. Topographic anatomy and operative surgery as an educational discipline and its place in the training of doctors. Applied anatomy and its main types.** **Fascias and cellular spaces of the face, and their clinical value.** The human lymphatic system. Features of arterial blood supply and venous outflow of the head. Topographic anatomy of the cerebral part of the head. Topographic anatomy of the facial part of the head. Topographic anatomy of the mouth region. Topographic anatomy of the lateral superficial face region. Topographic anatomy of the deep lateral face region.
Module 2. Topographic anatomy of the neck	Topographic anatomy of the neck. The division into the parts, regions and triangles. Fascias and cellular spaces of the neck, and their clinical value. Features of arterial blood supply and venous outflow of the neck. The middle region of the neck. Sterno-claido-mastoid region. The lateral neck region. Surgical anatomy of: larynx, trachea, pharynx, cervical esophagus and thyroid gland.
Module 3. Operative surgery of the head and neck	Operative surgery: content and methods of study. The basics of the doctrine of surgery. Modern trends and prospects of operative surgery. Preparation for surgery and anesthesia. General surgical technique.

	Surgical instruments. Fundamentals of surgical transplantology. Operations on the head. Operations on the neck.

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The course instruction is implemented within the professional education programme of higher education: “Dentistry”
Recommended by the Didactic Council for the Education Field of:
31.05.03 Dentistry

Name of the discipline		“Service-learning”	
Course Workload, credits/ac.h.		2/72	
COURSE CONTENTS			
Course module title		**Course module contents (topics)**	
Module 1.	Introduction to social project design.	1.1	Reflection.
		1.2	Survey.
Module 2.	Analysis of the situation and problem definition.	2.1	Reflection.
		2.2	Self-assessment.
		2.3	Peer assessment.
		2.4	Supervisor assessment.
Module 3.	Development of a hypothesis for project solution.	3.1	Reflection.
		3.2	Self-assessment.
		3.3	Peer assessment.
		3.4	Supervisor assessment.
Module 4.	Development and defense of the project passport.	4.1	Defense of the project passport.
		4.2	Reflection.
		4.3	Self-assessment.
		4.4	Peer assessment.
		4.5	Supervisor assessment.
		4.6	Community assessment.
Module 5.	Implementation of a public project.	5.1	Self-assessment.
		5.2	Peer assessment.
		5.3	Supervisor assessment.
		5.4	Community assessment.
		5.5	Reflection.
Module 6.	Defense of results, summarizing and reflecting on activities.	6.1	Defense of project implementation results.
		6.2	Community assessment.
		6.3	Evaluation of the project report.
		6.4	Reflection.

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RUDN University

Medical Institute

educational division - faculty/institute/academy

COURSE DESCRIPTION

31.05.03 Dentistry

field of studies / speciality code and title

2024 г.

Course Title	**«History of Religions in Russia»**
Course Workload	**2/72**
Course contents	
Course Module Title	**Brief Description of the Module Content**
Module 1. Historical and Religious Studies Section	**Topic 1.1** What is religion. The role and significance of religion in history and in the life of society. Religiosity. Historically early forms of religion. Religions and denominations. Religion in non-written societies and in the Ancient World.
	Topic 1.2 Prehistory of Christianity: Middle East in the I millennium BC. Old Testament Judaism. Judaism of the Second Temple period. Formation and codification of the Old Testament canon. Judaism and antiquity. Modern Judaism.
	Topic 1.3 Emergence of Christianity. Formation of the New Testament canon. Creed. Christian doctrine. Ancient Eastern churches. Christianity before the separation of churches.
	Topic 1.4 The Great Schism. Features of Eastern and Western Christianity. World Orthodoxy. Catholicism. Protestantism. Local Orthodox Churches. Ancient Eastern Churches.
	Topic 1.5 Emergence of Islam. The Koran and the Sunna. Pillars of Islam and foundations of faith. Sunnism, Shiism, Kharijism, Sufism. Spread of Islam. Modern Islam.
	Topic 1.6 Buddhism: origins and main ideas. Theravada, Mahayana, Vajrayana. The main Buddhist texts. Buddhism in Tibet and Central Asia. Modern Buddhism.
	Topic 1.7 Religious situation in the modern world. New religious movements. Religious radicalism and extremism. Risks and threats in the religious sphere.
Module 2. Historical aspects of the formation of Russia as a multi-confessional state-civilization	**Topic 2.1.** From Ancient Russia to the Russian State. Baptism of Alania. Baptism of Russia. Acceptance of Islam by the peoples of Volga Bulgaria. Formation of a common cultural space. Russia and the Horde. The struggle against the

	expansion of the Crusaders. Formation of a unified Russian state. Establishment of autocephaly of the Russian Church.
	Topic 2.2. Russia in the XVI-XVII centuries: from the Grand Duchy to the Tsardom. Russia as a multi-ethnic and multi-confessional power. Establishment of patriarchy. The role of the Russian Church in overcoming the Turmoils. The reforms of Patriarch Nikon and the emergence of the Old Believers. Integration of peoples traditionally practicing Islam. Development of Orthodox and Muslim clergy. Missionary work and Christianization in the context of Russian geographical discoveries.
	Topic 2.3. Russia in the late XVII-XVIII centuries: from tsardom to empire. Church reform of Peter the Great. Strengthening of religious tolerance. Recognition of Buddhism. The Russian Empire in the XIX - early XX centuries. Religious life in the early XX century.
	Topic 2.4. Russia in the "years of great upheavals". Religion in Soviet society. The All-Russian Local Council of 1917 and the restoration of patriarchy. Decree on the separation of church from state and school from church. Renewalism. The policy of the Soviet state in relation to religion. The role of religious organizations in the Great Patriotic War. Revival of religious life in the 1980s-1990s.
	Topic 2.5. Religious life in modern Russia. State-religious and interreligious relations. Traditional religions of the Russian Federation.
Module 3. Religious Traditions of Russia and Traditional Russian Spiritual and Moral Values	**Topic 3.1.** Man and his place in the world. Christian, Islamic, Buddhist and Jewish religious anthropologies. Body and consciousness. Birth and death. The value of man's earthly life and its meanings. Human dignity. Religion and ethics. Posthumous existence. Remembrance of ancestors.
	Topic 3.2. The concept of traditional Russian spiritual and moral values. Commonality of spiritual and moral values for believers and non-believers. Christianity, Islam, Buddhism and Judaism on public morality. Ethics of creative labor and humanity. Values of the family. Religious traditions of Russia about mercy, social justice, collectivism, mutual help and mutual respect.
	Topic 3.3. Religious traditions of Russia and all-Russian civic identity. Service to the Fatherland and responsibility for its fate. Historical memory of joint peaceful creation and joint defense of the Motherland. Historically formed spiritual and moral unity of the peoples of Russia. Russia as a multi-confessional state-civilization.
	Topic 3.4. Russian legislation on religious associations. Missionary activity. Religious property. Objects of cultural heritage. State-religious relations. The Council for Cooperation with Religious Associations under the President of the Russian Federation. Interreligious Council of Russia. Religious expertise. Religious organizations of the Russian

	Federation and the tasks of preserving and strengthening traditional Russian spiritual and moral values.

DEVELOPERS:

Head of the Department of pathological Anatomy of MI		**Kiribayev N.S.**
Position, Basic training unit	Signature	Surname Full name