

**Thematic lesson plan of lectures
in the discipline "Prosthetic Dentistry"
for students in the year of admission 2020
according to the educational program
specialist in the specialty 31.05.03 Dentistry,
direction (profile) Dentistry, full-time education
for the 2024-2025 academic year**

№	Topics of lectures	Hours (academic)
5 semester		
1.	Diagnosics. Preparation of the oral cavity for prosthetic treatment. Methods of examination in a prosthetic dentistry clinic: ¹ static and functional. ²	2
2.	Prosthetic treatment of lesions of hard dental tissues using inlays. ¹ Types of inlays. Formation of cavities for inlays. Indications for the different types of inlays. Modern technologies for making inlays in prosthetic dentistry. ²	2
3.	Prosthetic treatment of lesions of hard dental tissues with artificial crowns. ¹ Types of crowns. Details of preparation for crowns. Pathophysiological basis of preparation. Indications for different types of crowns. Modern technologies for making crowns. ²	2
4.	Orthopedic treatment of total defects of hard dental tissues. Types of orthopedic pin structures (pin teeth and pin-crowns). ¹ Indications for various types of pin structures. Preparation of the root. Modern technologies for manufacturing pin structures. Complications in the orthopedic treatment of diseases of hard tissues of teeth. ²	2
5.	Partial edentia: basic concepts, terms, definitions, identification. ¹ Causes of development. Classification of defects in dentition (Kennedy, Gavrilov, Wild, etc.). Effect on the functional state of the dentoalveolar system. Objectives of treatment in partial edentia. Classification of prostheses. ²	2
6.	The concept of articulation, central occlusion and the central relationship of dentition and jaws. ¹ Methods for determining the central occlusion and central relationship in various clinical defects of dentition. ²	2
7.	Partial tooth loss. Biological, clinical and biomechanical basics of prosthodontic treatment with fixed partial denture "bridges". ¹ Principals of teeth preparation, types of bridges: Stamped-soldered, cast metal, Maryland Bridges . Possible complications and mistakes in treatment with bridges. ²	2
8.	Partial tooth loss. Indications for treatment with removable partial dentures, their types. ¹ Fixing elements. Fixation and stabilization of removable partial dentures. Clinical and laboratory stages of manufacturing. Physiological basis of adaptation. ²	2
9.	Treatment of partial absence of teeth with bar prostheses. Comparative assessment of types of bar prostheses for the treatment of partial absence of teeth. Indications for the use of bar prostheses. ¹ Assessment of the state of the tissues of the prosthetic bed and the topography of defects in the design of clasp prostheses. Varieties of bar prostheses. Their advantages and disadvantages. ²	2
10.	Structural elements of bar prostheses (artificial teeth, bases, arcs (plates); supporting and retaining elements (attachments, beams, telescopes, clasps). Their functional and structural purpose. Requirements for them. ¹	2
11.	Clinical and laboratory stages of manufacturing bar prostheses (soldered and solid-cast according to a removable wax model, on a refractory model).	2

	Support-holding clasps. Their systematization. Requirements for clasps. Types of clasps. Ney clasp system. Their purpose. requirements for them. ²	
12.	Features of planning the treatment of patients with modern designs of bar prostheses. ¹ Biomechanics of bar prostheses. The operation of the "included" and "terminal" saddles of the bar prostheses. Types of fixation systems for bar prostheses. The stages of treatment with bar prostheses with a clasp fixation system. ²	2
	Total	24
6 semester		
1.	Surveying in the manufacturing of various types of prostheses (removable and fixed) with partial absence of teeth. ¹ Methods of surveying. Rules and features of preparation of abutment teeth, taking into account surveying data. ²	2
2.	Complex methods of treatment of tooth wear. ¹ The concept of the "myostatic reflex according to Rubinov" and the physiological basis of its restructuring. Principles of complex treatment of generalized tooth wear without reducing the height of the lower third of the face. Preventive measures, clinical examination, prognosis. ²	2
3.	Features of prosthetic treatment of gerontic age patients with fixed and removable dentures. ¹ Morphological and functional changes occurring in the structures of the maxillofacial region in the elderly and senile age. Features of orthopedic treatment of elderly patients with non-removable and removable dentures. Features of the implementation of the clinical stages of orthopedic treatment in patients of senile age. ²	2
4.	Features of orthopedic treatment of patients with chronic diseases of the oral mucosa against the background of somatic pathology. ¹ Differential diagnosis of lesions of the oral mucosa from basic materials and the manifestation of common diseases in the oral cavity. Intolerance to dentures, paresthesia, galvanism phenomena. Features of examination and orthopedic treatment of patients with galvanosis. ²	2
5.	Overdentures, telescopic crowns. ¹ Orthopedic treatment of patients with extensive defects in the dentition. Problems of restoration of speech function (sound formation). ²	2
6.	Restructuring of the organs of the maxillofacial region due to the complete loss of teeth. The structure and ratio of edentulous jaws, their classification. Examination of the maxillofacial region in patients with complete absence of teeth. Diagnosis, prognosis.	2
7.	The choice of treatment method, the forecast of its effectiveness. Biophysical and functional factors underlying the fixation of prostheses in edentulous jaws. The concept of the valve zone. Compliance and mobility of the oral mucosa. Classification.	2
8.	The doctrine of prostheses fixation and stabilization. Anatomical and functional impressions of edentulous jaws. Methods for the manufacture of individual trays. Functional tests according to Herbst. Impression materials.	2
9.	Anatomical and physiological method of restoring the occlusal ratios of the height of the face lower part. Fixation of the central ratio of edentulous jaws. Anthropometric landmarks and anatomical patterns of the structure of the face in orthognathic bite, which underlie the construction of artificial dentitions in prostheses for edentulous jaws.	2
10.	Patterns of occlusion and articulation of the dentition in orthognathic and other types of physiological types of bites. Their reproduction in prostheses for edentulous jaws by methods of anatomical setting of teeth. "Spherical"	2

	theory of articulation and its implementation in the practical restoration of dentition in the complete absence of teeth. Laws of articulation (Bonville, Hanau). Registration of mandibular movements and data transfer to individual articulators.	
11.	Checking the design of prostheses on edentulous jaws (anatomical, aesthetic, phonetic, functional). Possible errors in determining and fixing the central ratio of the jaws, the mechanism of origin. Methods for their elimination.	2
12.	Fitting and fixation of a removable plate prosthesis. Correction. Adaptation of the patient to a removable plate prosthesis. Possible complications when using prostheses. Possible errors in the treatment of removable plate dentures. Ways to eliminate. Rules for the use of removable plate dentures.	2
	Total	24

¹ -Subject

² - essential content (if necessary)

Considered at the meeting of the Department for Prosthetic dentistry with course of clinical dentistry "14" May 2024, protocol No 11.

Head of the Department

V.I. Shemonaev