

**Thematic plan of independent work of the student
in the discipline "Prosthetic dentistry"
for students in years of admission 2021, 2022 according to the educational program
specialty in the specialty 31.05.03 Dentistry,
orientation (profile) Dentistry, full-time education
2024-2025 academic year**

№	Topic of independent work	Hours (academic)
5 semester		
1.	Modern materials and methods of manufacturing orthopedic structures.¹	52
	<ul style="list-style-type: none"> • Modern materials for the manufacture of inlays, veneers. Pressed ceramics. Zirconium dioxide. Dental porcelain. Composites.² • Modeling of stump pin inlays on the anterior group of teeth. Stages of preparation of front teeth for pin-stump inlays and modeling: using self-hardening plastics for individual casting and 3D scanning; composite materials with fiberglass.² • Modern impression materials in orthopedic dentistry. Classification, basic requirements, indications for the use of various impression materials.² • Modern materials for fixing orthopedic structures. Classification, basic requirements, indications for the use of various materials for fixing orthopedic structures.² 	
	Independent work control	2
6 semester		
1.	Modern technologies of orthopedic treatment of dental defects and dentition.¹	44
	<ul style="list-style-type: none"> • Modern computer technologies for orthopedic treatment of dental crown defects. Obtaining an optical impression, modeling restoration (CAD module), milling the resulting restoration (CAM module), final processing.² • Modeling of composite stump pin inlays on the lateral group of teeth. Stages of preparation of lateral teeth for composite pin-stump inlays and modeling using self-hardening plastics; laboratory method of manufacturing composite inlays by casting and 3D printing.² • Types of locking clamps for removable dentures, indications for use. Classification, requirements and indications for the use of lock clamps for removable dentures.² • Modern materials used for the manufacture of two-layer bases. Elastic polymer materials for the manufacture of linings in two-layer bases of prostheses. Chemical composition and properties. Clinical and clinical laboratory methods of manufacturing prostheses with a two-layer basis.² 	
	Independent work control	2
7 semester		
1.	Orthopedic treatment of patients with removable dentures.¹	22
	<ul style="list-style-type: none"> • Diagnosis of diseases of the oral cavity associated with denture materials. Diagnosis and etiology of prosthetic intolerance, clinical observation, toxicological aspects. Rehabilitation of patients with prosthetic intolerance.² • Modern technologies for the manufacture of clasp prostheses. 3D modeling of the skeleton of a clasp prosthesis in Autocad, Shape, Dental Wings programs. Modern materials and technologies for 3D printing of braces of 	

	dentures. ²	
	Independent work control	2
8 semester		
1.	Errors and complications at the clinical and laboratory stages of manufacturing various types of dentures.¹	26
	<ul style="list-style-type: none"> Mistakes of the doctor and dental technician at the stages of manufacturing removable dentures. Analysis and ways to eliminate errors by a doctor and a dental technician at various stages of manufacturing removable dentures.² 	
	<ul style="list-style-type: none"> Errors of the doctor and dental technician at the clinical and laboratory stages of orthopedic treatment using various types of structures based on implants. Analysis and methods of elimination.² 	
	Independent work control	2
	Total	152

¹ -Subject

² - essential content (if necessary)

Considered at the meeting of the Department for Prosthetic dentistry with course of clinical dentistry "05" June 2024, protocol No 12.

Head of the Department

V.I. Shemonaev