

**Thematic plan of seminars
in the discipline "Innovative technologies in orthopedic 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**

№	Thematic blocks	Hours (akadem)
9 semester		
1.	Innovative examination methods in orthopedic dentistry. ¹ Analysis of diagnostic models in the articulator. Evaluation of static and dynamic occlusion. Methods for studying the state of the masticatory muscles and temporomandibular joint. ² Part 1	2
	Innovative examination methods in orthopedic dentistry. ¹ Digital technologies for determining the color of teeth. Digital analysis of aesthetic parameters in orthopedic dentistry. Digital planning. 3Ddesign. ² Part 2	2
	Innovative examination methods in orthopedic dentistry. ¹ Digital technologies for determining the color of teeth. Spectrophotometers. Characteristic. Application. ² Part 3	1
2.	CAD/CAM technologies in orthopedic dentistry. ¹ Concept of CAD / CAM system. Levels of CAM systems. Laboratory CAD / CAM systems. Clinical CAD / CAM systems. Materials for structures produced by CAD / CAM systems. ² Part 1	2
	CAD/CAM technologies in orthopedic dentistry. ¹ Algorithm of CAD/ CAM operation in the manufacture of various denture designs. Scanning stage. Characteristics of intraoral chambers. Method of application. Laboratory 3-D scanners – varieties. Characteristic. Application algorithm. ² Part 2	2
	CAD/CAM technologies in orthopedic dentistry. ¹ Milling. Milling machines. Main features. ² Part 3	1
3.	Modern materials for fixing metal-free structures. Protocol of adhesive fixation. ¹ Modern glass-inomer cements for fixing metal-free orthopedic structures. Composition and properties. Advantages and disadvantages. ² Part 1	2
	Modern materials for fixing metal-free structures. Protocol of adhesive fixation. ¹ Modern adhesive composite cements. Features. Advantages and disadvantages. Fixing protocol with the use of adhesive composite cements. ² Part 2.	2
	Modern materials for fixing metal-free structures. Protocol of adhesive fixation. ¹ Modern self-adhesive composite cements. Composition and properties. Method of application. ² Part 3.	1
4.	Modern technologies of manufacturing removable plate prostheses (thermoplastics, injection molding). ¹	2

	Types of thermoplastic materials. Physical and chemical properties of thermoplastics. ² Part 1.	
	Modern technologies for manufacturing removable plate prostheses (thermoplastics, injection molding). ¹ Indications for the manufacture of prostheses made of thermoplastic materials. Prosthetic manufacturing technology. ² Part 2	2
	Modern technologies for manufacturing removable plate prostheses (thermoplastics, injection molding). ¹ Technology of selective laser sintering. Algorithm of operation. ² Part 3	1
5.	Occlusal splints. ¹ Classification of occlusal devices. Mechanism of action of the occlusal splint. Methods of manufacturing an occlusal splint. Materials. Registration of interocclusal ratio. Types of deprogramming devices. Application. ² Part 1.	2
	Intermediate certification	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