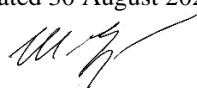


CLAIMED
on the session of General Dentistry Department of BSMU
(protocol № 1 dated 30 August 2023)

Head of the Department



T.V. Krushinina

**WORK PLAN OF PRACTICAL SESSIONS ON DISCIPLINE
«MATERIALS SCIENCE AND FUNDAMENTALS OF
MANUFACTURING DENTURES»
for 1 course 1st semester of 2023-2024 academic year
Medical Faculty for International Students (specialty 1-79 01 07
"Stomatology")**

№	List of practical classes
1.	Introduction to the specialty «Dentistry». Organization of dental service in the Republic of Belarus. Medical ethics and deontology in dentistry. Organization and equipment of dental office and dental laboratory.
2.	Dentures. Algorithm of the manufacturing of dentures. Dental materials classification.
3.	Dental and dental laboratory instruments.
4.	Auxiliary materials: impression materials. Classification, requirements, application. Impressions, impression trays. Alginate materials: composition, properties, application.
5.	Auxiliary materials: silicone impression materials. Composition, properties, application. Types of silicone impressions.
6.	Auxiliary materials: gypsum. Classification, composition, properties, application.
7.	Types of gypsum casts. Requirements for casts.
8.	Modeling materials. Investment and isolation materials.
9.	Final lesson on the topic: "Auxiliary dental materials used in dentistry".
10.	Basic (structural) materials: metal alloys, requirements, composition, application.
11.	Manufacturing technologies of dentures from metal alloys: metal alloy casting.
12.	Manufacturing technologies of dentures from metal alloys: stamping, milling, laser sintering, MIM - technology. Connection technologies of metal parts of dentures.
13.	Basic (structural) materials: heat-cured acrylic resins, requirements, composition, application.
14.	Manufacturing technologies of dentures from heat-cured acrylic resins.
15.	Basic (structural) materials: cold-cured acrylic resins, requirements, composition, application. Thermoplastic and light-cured polymers. Artificial teeth for removable dentures.
16.	Finger adapted dough method of acrylic resins. Technologies of milling and thermoforming of plastics.
17.	Basic (structural) materials: ceramics.
18.	Manufacturing technologies of dentures from ceramic: milling, hot pressing, sintering. Porcelain fused to metal.
19.	Final lesson on the topic: "Basic (structural) dental materials. Manufacturing technologies of dentures».