**Material Science**

LECTURE PLAN

**1st year 2nd semester 2023-2024.**

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| Dete/time | Lecture topic | Lecturer |
| 12.02.2024Monday10:40-12:20 | The main requirements for dental materials in the clinic of therapeutic dentistry. Classification of filling materials. Temporary filling materials. Types. Composition, properties. | Полевая А.В. К.м.н. |
| 19.02.24 Monday10:40-12:20 | Dental materials for teeth restoration in the clinic of therapeutic dentistry. General requirements, classification. Cements. Classification. Positive and negative properties of cements.* Zinc-phosphate
* Silicophosphate
* Polycarboxylate
* Glass-ionomer
 | Полевая А.В. К.м.н. |
| 26.02.24 Monday10:40-12:20 | Metal filling materials and amalgam. Types. Composition, properties. Curing mechanism, advantages and disadvantages. | Полевая А.В. К.м.н. |
| 4.03.2024 Monday10:40-12:20 | Composite materials. Types. Composition, properties. Curing mechanism, advantages and disadvantages. The concept of adhesion, Types of adhesion of filling materials.  | Полевая А.В. К.м.н. |
| 11.03.2024 Monday10:40-12:20 | Materials for filling the root canals of teeth:* Plastic non-hardening
* Plastic hardening
* Solid (pins)
 | Полевая А.В. К.м.н. |

**Material Science**

SEMINAR/ PRACTICAL LESSON PLAN

**1st year 2nd semester 2023-2024.**

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| №  | Seminar/ practical lesson topic | Duration of the lesson |
| 1 | Dental materials in the clinic of therapeutic dentistry. The main requirements for materials in the clinic of therapeutic dentistry. Classification of filling materials. | 2 hour |
| 2 | Temporary filling materials. Composition and properties of temporary filling materials. Requirements for temporary filling materials. The methodology of working with temporary filling materials; | 2 hour |
| 3 | Classification of permanent filling materials;Cements. * Zinc-phosphate
* Silicophosphate
* Polycarboxylate

Chemical composition, positive and negative properties, methods of working with cements. | 2 hour |
| 4 | Glass-ionomer Chemical composition, positive and negative properties, methods of working with cements. | 2 hour |
| 5 | Amalgams. Types, methods of work, equipment and tools for working with amalgams, positive and negative properties, indications for use | 2 hour |
| 6 | Composite materials. Types. Composition, properties. The concept of adhesion, Types of adhesion of filling materials. Composite filling materials of chemical curing. Chemical composition, positive and negative properties, methods of working with cements.  | 2 hour |
| 7 | Composite filling materials of light curing. Types. Chemical composition, working methods, equipment and tools for working with composite light-cured filling materials.  | 2 hour |
| 8 | Materials for filling the root canals of teeth:* Plastic non-hardening
* Plastic hardening
* Solid (pins)
 | 2 hour |

**Material Science**

SEMINAR/ PRACTICAL LESSON PLAN

**1st year 2nd semester 2023-2024.**

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| Date | Location  | Tutor |
| Suename | Academic degree | Academic rank |
| 18.03.2024-22.04.2024 10:40 - 12:2013.30 – 15.00 | Менделеевская линия, д.5 | Рыбаков А.В. |  |   |