31.05.03 Simple Prosthetics (180 HOURS/5 CREDITS)

(Course Title and Number)

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and by appointment

COURSE OBJECTIVE:

preparation of a dentist who is able to diagnose and plan the orthopedic stage of complex treatment of patients with diseases of the dentoalveolar system, taking into account the individual characteristics of the course of the disease and the age of the patient.

Potential themes to be addressed:

- Orthopedic treatment of partial absence of teeth

- Orthopedic treatment of partial absence of dentitions/

COURSE OUTCOMES:

To know:

- Theoretical bases of biomechanics of the dentoalveolar system in norm and in pathology;  
- methods of examination, diagnosis and orthopedic treatment of patients;  
- the principles of diagnosis and orthopedic treatment of major dental diseases;  
- mastering the knowledge of modern methods of computer modeling and manufacturing of dentures;  
- methods of conducting dispensary follow-up of patients who received orthopedic dental treatment.

To be able to:

- examine the patient;  
- analyze the results of basic and additional survey methods;  
- make a diagnosis;  
- to plan the orthopedic stage of simple treatment of patients:  
to identify, eliminate and take measures to prevent possible complications when using non-removable and removable orthopedic medical devices;  
- Conduct a discussion and dialogue with the patient, colleagues at work.

To master:

-methods of clinical dental examination of patients:  
 - interpretation of the results of basic and additional methods of dental examination of patients with major dental diseases requiring orthopedic treatment;  
- methods of planning the orthopedic stage of simple treatment and rehabilitation of patients with major dental diseases;  
- methods of conducting dental orthopedic rehabilitation activities;  
- registration of the necessary documentation, taking into account the concomitant diseases and pathological processes in the dental patient.

METHODOLOGY:

-Lectures and the presentation of visual materials (slides, videos)

-Readings and in-class discussions.

-Practical lessons.

COURSE REQUIREMENTS: The final exam includes test control and interview on tickets. The results of practical work of students in lessons will also be taken into account.

GRADING: Grading is based on individual progress. That progress will be based on the following:

20% - class participation

20% - test control

20% - practical skills

40% - final exam

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| Grades | Points |
| 2 | 0-54 |
| 3 (passed) | 55 - 69 |
| 4 | 70 - 84 |
| 5 | 85 - 100 |

5 semester

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| №№ | Topic | Type of Class | Hours | Tests/Essays |
| 1. | Structure of the dental clinic. Orthopedic department - medical offices and dental laboratory. Modern equipment and equipment. Disinfection system, sterilization in the clinic and laboratory. Safety in the clinic and laboratory. Medical documentation, rules for filling it out. | practise | 3 | test |
| 2 | Pathology of hard tissues of teeth. Classification and etiological factors. Methods of examination. Diagnostics. Differential diagnostics. Types of dentures that restore the anatomical shape of the tooth. Culture of medical reception. Psychological preparation of patients for orthopedic manipulation. | practise | 3 | test |
| 3 | Dissection of hard tooth tissues. Method of preparation, mode, air-water cooling system. The organization of the workplace, the position of the patient in the chair when working with or without an assistant. | practise | 3 | test |
| 4 | Preparation of the patient for orthopedic reception with concomitant somatic diseases. Pathology of hard tissues of teeth of carious etiology. Classification of cavities by Blek. | practise | 3 | test |
| 5 | The method of orthopedic treatment with cast inserts, inserts from ceramics, photocomposites and glass ceramics. Direct and indirect methods of making tabs. | practise | 3 | test |
| 6 | Artificial crowns, their types, classification. Clinical substantiation of orthopedic treatment by artificial crowns - all-metal stamped. Pripasovka, fixation of artificial crowns. | practise | 3 | test |
| 7 | Orthopedic treatment with cast all-metal and combined (cermet, metal plastic) crowns. Indications for use. Principles and technique of tooth preparation for cast all-metal and combined crowns. Methods of retraction of the gingival margin. Obtaining a double refined impression. | practise | 3 | test |
| 8 | Fit the cast all-metal crown and cast frame of the combined crown. Selection of the color of the facing material. Correction of occlusal relationships, color of the facings. Fixation of crowns on cement. | practise | 3 | test |
| 9 | Orthopedic treatment of defects of hard tissues of teeth with porcelain crowns. Indications and contraindications to their use. Obtaining a double impression. Color matching. | practise | 3 | test |
| 10 | Orthopedic treatment of defects of hard tissues of teeth with plastic crowns. Indications and contraindications to their use. Dissection under a plastic crown. | practise | 3 | test |
| 11 | Orthopedic treatment with complete absence (destruction) of the tooth crown. Etiology. Classification of pins. Treatment with pin teeth. Types of pin teeth, their structural features. | practise | 3 | test |
| 12 | Complete destruction of the crowns of single-root teeth. Preparation of the pridevineal part and root canal. Direct method of making a wax composition with a pin. Indirect method of making a pin stump design. | practise | 3 | test |
| 13 | Complete destruction of the crowns of single-root teeth. | practise | 3 | test |
| 14 | Orthopedic treatment of defects in hard tissues of teeth with artificial crowns. Control work. | practise | 3 | test |
| 15 | Partial absence of teeth. Etiology, clinic. Classification of defects in dentition. Methods of examination. Formation of diagnosis. Filling in the medical history. Types of bridges. | practise | 3 | test |
| 16 | Bridges with supporting metal stamped crowns. | practise | 3 | test |
| 17 | Orthopedic treatment of partial absence of teeth with solid bridges. Clinical examination: objective research methods. Removing impressions with alginate impression materials. Casting diagnostic models. | practise | 3 | test |
| 18 | Errors (technical and clinical) and complications in orthopedic treatment with non-removable bridges. Methods of prevention. | practise | 3 | test |

6 semester

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| №№ | Topic | Type of Class | Hours | Tests/Essays |
| 1. | Classification of defects in dentition by Kennedy. Patient examination. Preparation of the oral cavity for orthopedic treatment. Types of removable dentures. | practise | 3 | test |
| 2 | Plastic prostheses and their structural elements. Limits of the basis of a removable plate prosthesis. Types of clasps, their constituent elements. Evaluation of teeth and indications for the production of artificial crowns for clamping fixation. | practise | 3 | test |
| 3 | Determination of central occlusion or central ratio of jaws for all groups of dentition defects. Clinical guidelines for the selection and staging of artificial teeth. | practise | 3 | test |
| 4 | Artificial teeth. Their kinds. Selection of artificial teeth. | practise | 3 | test |
| 5 | Clinical stage of testing the design of a removable plate prosthesis. | practise | 3 | test |
| 6 | Clinical stage of testing the design of a removable plate prosthesis. Possible errors, identified at this stage and methods for their elimination. | practise | 3 | test |
| 7 | Laboratory phase of wax replacement for plastic. Methods of polymerization. | practise | 3 | test |
| 8 | Criteria for assessing the quality of removable plate prostheses. Pripasovka and imposing plate prosthesis. The process of adapting patients to prostheses. | practise | 3 | test |
| 9 | Correction of removable dentures. Possible complications when using removable plate prostheses. | practise | 3 | test |
| 10 | Plastics acrylic series, as allergic, chemical-toxic and traumatic factors in the development of pathological changes in the mucosa of the prosthetic bed. | practise | 3 | test |
| 11 | Metallic, metallized bases of plate prostheses. Indications for use. Causes of breakage of plate prostheses and methods of their repair. Techniques for relocating removable plate prostheses. | practise | 3 | test |

The Professors personal requirements for the course: attendance, homework, coming late, diaries of practical skills, medical dress.