Study program: Integrated academic studies in dentistry

Type and level of the study program: Integrated academic studies

Course title: Dental prosthetic – preclinical (DII-DPPC)

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Course status: Compulsory

ECTS Credits: 11

Condition: Dental anatomy, gnathology (exam)

Course aim

Acquiring knowledge about the types and manner of making dentures.

Expected outcome of the course:

Student needs to know type of prosthesis, their purpose and manner of placement.
Students should know how to take print, how to produce and make dentures.

Course description

Theoretical education

1. Anatomical imprint. 2. Functional imprint. 3. Obtaining of working model. 4. Making bite imprints. 5. Determining the position of teeth in patients with toothless jaw relationship. 6. Determining the position of lateral teeth in patients with toothless jaw relationship. 7. Preliminary positioning of artificial teeth. 8. Definitive tooth positioning. The final procedures in the preparation of complete dentures. 9. Restoring, corrections and relining of complete dentures. 10. Immediate total denture. 11. Supradental total dentures. 12. Total denture - bases reinforced with metal skeleton. 13. General terms about toothless jaw. 14. Forms of partial dentures. Parts of a partial plate denture. 15. Retention, stabilization, transfer of occlusal loads, and guidance of partial plate denture. 16. Construction of partial plate denture in the laboratory. Partial skeleton dentures. Parts of the partial skeleton denture. 17. Retention, stabilization, transfer of occlusal loads and guidance of partial skeleton denture. 18. Application of the parallelometer in the planning and construction of partial dentures. 19. Connecting elements of partial skeleton denture. 20. Construction of partial skeleton dentures in the laboratory. 21. Definition, goal and tasks of dental prosthetics. 22. Study models of individual molding spoons. 23. Conditions that define rational preparation. 24. Preparation of teeth for cast crowns (basic principles). Faceted tooth preparation for facet crowns (basic principles). Tooth preparation for ceramic replacement (basic principles). 25. Making working models for fixed compensation. 26. Making of full cast crowns. 27. Root canal preparation. 28. Preparation of fixed cast restorations. Preparation of fixed compensation model for inlay into heat resistant mass. 29. Preparation of ceramics restorations. Construction of metal-ceramic restorations. 30. Making the front and side bridges. 31. Application of parallelometer in making fixed restorations

Practical education: exercises, other forms of education, research related activities

1. Anatomical imprint. 2. Individual spoon. 3. Functional imprint. 4. Bite imprints. 5. Setting the facial bow on the mannequin. Transferring models into the articulator. 6. Lining the front teeth. Lining of lateral teeth. 7. Modeling external denture surface. Finishing wax models of dentures. 8. Cuvetting and polymerization and processing of finished dentures. 9. Film – stages in creating partial plate denture. 10. Making bite template. Making wire hooks. Teeth position. 11. Study model. Parallelometar. Analysis of study models in parallelometer and articulator. 12. Transferring the design of the skeleton denture from the study model to the basic model. 13. Preparation of the basic model, doubling and creation of heat resistant model. 14. Waxing of heat resistant model. Creating of wax models of partial skeleton denture (I Kennedy, Kennedy II). 15. Creating wax model of partial skeleton denture. Setting of casting channel. 16. Principles of preparation. Demonstrating student work: teeth preparation for cast crown. 17. Preparation of teeth for faceted crown (demarcation of the preparation of half-channel and steps). 18. Preparation of teeth for ceramic crown. (demarcation of the preparation of step form with rounded internal angle, marked half-channel and step). 19. Protection of ground teeth. 20. Root canal preparation. 21. Making wax model of cast replacement and creation of cast models in acrylate. 22. Taking imprints of ground teeth. Making models. Preparation of the working stump. 23. Modeling of cast crowns on molars. Modeling faceted crown on premolar. Modeling of faceted bridge. 24. Modeling caps for metal ceramic crown and metal ceramic crown with ceramic edge. 25. Modeling the skeleton of the front metal ceramic bridge in wax.

Literature

Compulsory

Outlines of lectures

Additional

Number of active classes				Other:
Lectures: 60	Practice: 90	Other types of teaching:	Research related activities:	

Teaching methods: Lectures + Practices

Student activity assessment (maximally 100 points)

Pre-exam activities	**points**	**Final exam**	**points**
Lectures	10	Written	30
Practices	10	Oral	30
Colloquium	10	.....	
Essay			