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Subject:	<i>Prosthetic Dentistry 3</i>		
Study programme:	<i>Dental Medicine</i>	Semester:	<i>8. semester</i>
Valuation:	<i>absolved</i>	Obligation:	<i>obligatory</i>
Number of hours:	<i>1 h. lectures and 4 h. practicals / week</i>		<i>70 hours</i>

Place: Department of Stomatology and Maxillofacial Surgery
1 st Department of Stomatology
Department of Stomatology and Maxillofacial Surgery and Specialized
Hospital for Head and Neck Diseases, Academy of Košice, n.o

Lectures: Thursday 15:00 – 16:30 (OCW)
Lecture room PE

<i>Week</i>	<i>Lectures</i>	<i>Practicals</i>
1.	<p>Introduction to the issue of fixed bridges, classification of fixed bridges, basic concepts, structural elements of fixed bridges and their design, biomechanics of fixed bridges according to the type of fixed bridge</p> <p>12.02.2026 MDDr. Homzová, N.</p>	<p>1, Review of theoretical knowledge and practical skills from the previous semester – equipment of a prosthetic dental clinic, medical documentation and prosthetic label, ICD 10, division of individual procedures in prosthetic dentistry, code designation of procedures and dental prostheses + verification of knowledge from 1 lecture</p> <p>2, Examination of the patient – identification of physiological features of the orofacial system – basic gnathological points and planes, assessment of the patient's occlusion, X-ray analysis, identification of a dental defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment + verification of knowledge from 1 lecture</p>

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2.	<p>Patient examination before indication of fixed bridges, indications and contraindications of fixed bridges based on dental defects, treatment planning and relevant documentation, requirements for preparation of abutment teeth when indication of fixed bridges</p> <p>26.02.2026 MUDr. Ondrašovičová, J., PhD.</p>	<p>3, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, preparation and making of an indirect filling on phantoms, models, patient + verification of knowledge from lectures 1 and 2</p> <p>4, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, preparation and making of a root inlay on phantoms, models, patient + verification of knowledge from lectures 1 and 2</p>
3.	<p>Metal-ceramic/all-ceramic fixed bridge – definition, indications for linear/surface-anchored fixed bridge, detailed description of surgical and laboratory procedures complete</p> <p>12.03.2026 MUDr. Ondrašovičová, J., PhD.</p>	<p>5, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, preparation of abutments on phantoms, models, patient + verification of knowledge from lectures 1,2 and 3</p> <p>6, Patient examination – identification of physiological features of the orofacial</p>

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		<p>system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, preparation of abutments on phantoms, models, patient + verification of knowledge from lectures 1,2 and 3</p>
<p style="text-align: center;">4.</p>	<p>Atypical fixed bridges – Maryland, Rochett, glass abutment, adhesive bridges, indications, contraindications, detailed description of surgery and laboratory procedures complete</p> <p>26.03.2026 MDDr. Sinčák Konečná, A., PhD.</p>	<p>7, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, preparation of abutments on phantoms, models, patient + verification of knowledge from lectures 1,2,3 and 4</p> <p>8, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, preparation of abutments, working with elastomeric impression materials, evaluation and analysis of models before making fixed bridge + knowledge verification from lectures 1,2,3 and 4</p>

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5.	<p>Extensive, complex dental reconstructions with fixed dental prostheses – determination of the Mx-Mn relationship (CJR) in non-carious dental defects and the need to adjust the vertical and horizontal Mx-Mn relationship, Complications associated with fixed dental prostheses and their solutions</p> <p>09.04.2026 MUDr. Kučera, J., PhD.</p>	<p>9, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, preparation of abutments, work with elastomeric impression materials, evaluation and analysis of models before making a fixed bridge + verification of knowledge from lectures 1,2,3,4 and 5</p> <p>10, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, try in of fixed bridge frameworks + knowledge verification from lectures 1,2,3,4 and 5</p>
6.	<p>Fixed prosthetics in combination with removable restorations - definition of special anchoring devices as part of fixed restorations - axial plug-in joints (root inlays), friction plug-in joints (ball/cylindrical), magnetic joints (root inlays), telescopic crowns, support bars,</p> <p>23.04.2026 MUDr. Kučera, J., PhD.</p>	<p>11, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, try in of fixed bridge structures + verification of knowledge from lectures 1,2,3,4,5 and 6</p> <p>12, Patient examination – identification of physiological features of the orofacial</p>

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		<p>system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, delivering of fixed prosthetic work, patient instruction + verification of knowledge from lectures 1,2,3,4,5 and 6</p>
<p>7.</p>	<p>Credit test</p> <p>07.05.2026 MDDr. Sinčák Konečná, A., PhD.</p>	<p>13, Patient examination – identification of physiological features of the orofacial system, assessment of the patient's occlusion, X-ray analysis, identification of the dentition defect, making study impressions and modelos of upper and lower jaw and design of prosthetic treatment, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, delivering of fixed prosthetic work, patient instruction + verification of knowledge from lectures 1,2,3,4,5 and 6</p> <p>14, Presentation of the patient with a comprehensive prosthetic treatment plan for fixed bridge restorations – writing out medical documentation, X-ray analysis, indication of pre-prosthetic rehabilitation, design of prosthetic treatment with prosthetic label and description of the workflow for making a fixed bridge in points. Evaluation of student's performance and practical skills</p>

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Minimum requirements for awarding credit for the subject Prosthetic Dentistry 3 and a list of procedures during clinical practice:

- 1, **100% attendance at lectures, 60% success rate in the final credit test**
- 2, **100% active participation** in practical exercises (knowledge verification is done orally or in writing form)
- 3, **5x comprehensive examination of the prosthetic patient** with a complete medical documentation, X-ray analysis and a proposed treatment plan for fixed restorations
- 4, **3x making study impressions and study models**
- 5, **1x making a fixed bridge** (abutment preparation, making impressions, testing the structure, handing over the prosthetic work)
- 6, **3x pre-prosthetic preparation:** DH, or filling of the abutment / clasp tooth, or endodontic treatment of the abutment, or tooth extraction

Objective: examination of the patient, identification of the prosthetic problem, making study models and a complete prosthetic treatment plan with indications for fixed dentures

Recommended literature:

- 1, Calvani Lino: Fundamentals of treatment planning, 2020
- 2, Clovis Pagani: Tooth preparations, 2017
- 3, Jakovac Marko: Protocol, standardisation in fixed prosthodontics, 2024
- 4, Sailer I., Fehmer, V., Pjetursson B.: Fixed restorations, a clinical guide to the selection of materials and fabrication technology, 2021
- 5, Naylor W. Patrick: Introduction to metal -Ceramic Technology, 2018
- 6, Contemporary dental journals