SYLABUS

Subject:	***Prosthetic Dentistry 1***		
Study programme:	*Dental Medicine*	**Semester:**	*6. semester*
Valuation:	*absolved*	**Obligation:**	*obligatory*
Number of hours:	*1 h. lectures and 3 h. practicals / week*		*56 hours*

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 13:45 – 15:15 (ECW)
Lecture room PJ

Week	***Lectures***	***Practicals***
1.	**Prosthetic dentistry as a branch of dental medicine** – scope of the branch, consequences of tooth loss, **identification of dental defects** (classification of dental defects) and their relationship to dental prostheses. **Classification of dental prostheses** (biomechanics of prostheses, time perspective, prostheses lifespan). **Medical documentation in prosthetic dentistry** (prosthetic documentation, identification of prostheses by codes, prostheses lifespan, legislative minimum – documentation retention, complaints) **19.02.2026** **MUDr. Ondrašovičová, J., PhD.**	**1, Equipment of a prosthetic dental surgery**, handling of a dental unit, identification of instruments and materials used in a prosthetic dental surgery, ergonomics at work + knowledge verification from 1 lecture **2, Medical documentation in prosthetic dentistry**, creation and writing of documentation, **prosthetic label, ICD 10**, division of individual procedures in prosthetic dentistry, **code designation of procedures and dental prostheses** + knowledge verification from 1 lecture

2.	**Comprehensive examination of the patient from a prosthetic point of view** - treatment concept, **general medical/dental examination** (history - questionnaire), **Extraoral morphological and functional examination** of the patient with regard to gnathology (anatomy and physiology of the TMJ, planes in relation to prosthetic rehabilitation, MIC, CJR, CO, incisor guidance, canine guidance, interocclusal gap, Christenson phenomenon,...) **05.03.2026** **MUDr. Ondrašovičová, J., PhD.**	**3, Patient examination – identification of physiological features of the orofacial system** – basic gnathological points and planes, making study impressions and models of the upper and lower jaw, registration of bite, identification of MIC, CJR, CO + verification of knowledge from lectures 1 and 2 **4, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, **identification of dentition defect and dental prostheses,** X-ray analysis, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, writing out a prosthetic label + verification of knowledge from lectures 1 and 2
3.	**Intraoral examination of the patient from a prosthetic point of view** - biological factor of the tooth and dentition as a whole, examination of edentulous areas, examination of occlusion, imaging techniques indicated in prosthetic dentistry (2D, 3D), importance of study models, **determination of definitive diagnosis and treatment plan,** importance of wax up - mock up, visualization of future prosthetic work (Digital Smile Design) **19.03.2026** **MUDr. Ondrašovičová, J., PhD.**	**5, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, making study impressions and models of the upper and lower jaw and **design of prosthetic treatment, writing out a prosthetic label** + verification of knowledge from lectures 1,2 and 3 **6, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, writing out a

		prosthetic label + verification of knowledge from lectures 1,2 and 3
4.	**Pre-prosthetic preparation of the patient before prosthetic rehabilitation** – interdisciplinary cooperation, its importance (DH, steam, conservative dentistry, orthodontics, surgery) **Aesthetic requirements of prosthetic rehabilitation** – color and its purpose, principles of aesthetic rehabilitation – facial aesthetics, red aesthetics, white aesthetics, importance in planning prosthetic treatment **02.04.2026** **MUDr. Šestáková, M., PhD.**	**7, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, writing out a prosthetic label + verification of knowledge from lectures 1,2,3 and 4 **8**, **Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, writing out a prosthetic label + verification of knowledge from lectures 1,2,3 and 4
5.	An overview of **current options for materials and technological processes** for the production of individual dental prostheses, **digital prosthetic dentistry** **16.04.2026** **MDDr. Sinčák Konečná, A., PhD.**	**9, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, preparation of wax up and mock

		up + verification of knowledge from lectures 1,2,3,4 and 5 **10, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, **preparation of wax up and mock up up,** + knowledge verification from lectures 1,2,3,4 and 5
6.	**Comprehensive preparation of prosthetic treatment plans presented in case reports**, variability and treatment options in relation to the dental defect and the patient's socioeconomic status **30.04.2026** **MUDr. Kučera, J., PhD.**	**11, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, preparation of wax up and mock up, material and technological procedures for making fixed dental prostheses + verification of knowledge from 1,2,3,4,5 and 6 lectures **12, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, making study

		impressions and models of the upper and lower jaw and design of prosthetic treatment, preparation of wax up and mock up, material and technological procedures for making fixed and removable dentures + verification of knowledge from lectures 1,2,3,4,5 and 6
7.	**Credit test** **14.05.2026** **MUDr. Šestáková, M., PhD.**	**13, Patient examination** – identification of physiological features of the orofacial system – basic gnathological points and planes, registration of the bite, identification of MIC, CJR, CO, identification of dentition defect and dental prostheses, X-ray analysis, pre-prosthetic treatment of the patient – DH, conservative treatment, surgical treatment, making study impressions and models of the upper and lower jaw and design of prosthetic treatment, preparation of wax up and mock up, material and technological procedures for making fixed and removable dentures + verification of knowledge from lectures 1,2,3,4,5 and 6 **14, Presentation of the patient with a comprehensive prosthetic treatment plan** – 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 dental prosthesis in points. **Evaluation of the student's performance and practical skills.**

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Minimum requirements for awarding credit for the subject Prosthetic Dentistry 1 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**, 7x comprehensive examination of the prosthetic patient** with a complete medical documentation, X-ray analysis and a draft treatment plan for fixed and removable restorations
4**, 5x making study impressions and study models**
5**, 1x preparation of wax up + silicone stamp, key**
6, **3x pre-prosthetic preparation**: DH, or filling of abutment / clasp tooth, or endodontic treatment of abutment, or tooth extraction

Objective: examine the patient, identify the prosthetic problem, make study models, prepare a treatment plan for prosthetic treatments with complete documentation.

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