

Prosthetic Dentistry

1. IMPRINT		
Academic Year	2023/2024	
Department	Faculty of Medicine and Dentistry	
Field of study	Medicine and Dentistry	
Main scientific discipline	Medical science	
Study Profile	General academic	
Level of studies	Uniform MSc	
Form of studies	Extramural study (paid)	
Type of module / course	Obligatory	
Form of verification of learning outcomes)	Completion	
Educational Unit / Educational Units	Department of Dental Propaedeutics and Prophylaxis 59 Nowogrodzka Str., 02-006 Warsaw, phone: 22 625 66 02 e-mail: zpips@wum.edu.pl	
Head of Educational Unit / Heads of Educational Units	Leopold Wagner DDS, PhD	

Course coordinator	Prof. Jolanta Kostrzewa DDS, PhD, jolanta.kostrzewa-janicka@wum.edu.pl Renata Lenkiewicz DDS, rlenkiewicz@wum.edu.pl	
Person responsible for syllabus		
Teachers	Renata Lenkiewicz DDS, rlenkiewicz@wum.edu.pl	

2. BASIC INFORMATION				
Year and semester of studies	II year, III semester	ear, III semester		4,0
FORMS OF CLASSES Number of hours Contacting hours with academic teacher		Number	ECTS credits calculation	ion
		of hours	LC13 creats calculation	
Lecture (L)		-	-	
Seminar (S)		40	1,4	
Discussions (D)				-
e-learning (e-L)	e-learning (e-L)		-	
Practical classes (PC)		-	-	
Work placement (WP)		-	-	
Unassisted student's work				
Preparation for classes and completions		80	2,6	

3.	Course objectives
01	Acquiring knowledge in the field of functional anatomy and biomechanics of the stomatognathic system; anatomical details of teeth regarding their function and alignment; criteria of optimal functional occlusion; mechanisms of compensation, adaptation and feed-back control within the system.
02	Acquiring knowledge in the field of etiology and mechanisms of selected temporomandibular disorders and their impact on general health; general considerations of occlusal therapy and principles of masticatory system rehabilitation; occlusal disorders in malocclusions and general principles of malocclusions' prophylaxis and rehabilitation.
03	Acquiring ability to define and explain complex mechanisms leading to occlusal disturbances, general symptoms, and consequences of these disorders.
04	Acquiring ability of 3D modelling of permanent teeth crowns in plastic material, concentrating especially on occlusal surfaces' details.

4. STANDARDS OF LEARNING — DETAILED DESCRIPTION OF EFFECTS OF LEARNING		
Code and number of effect of learning in accordance with standards of learning	Effects in the field of morphological, preclinical and clinical science as well as the scientific foundations of medicine.	
Knowledge – Graduate* knows and understands:		

	A.W1	human body structures: cells, tissues, organs and systems with particular emphasis on the dental system
B.W8 mechanics of the masticatory apparatus		mechanics of the masticatory apparatus
	C.W12	concepts of homoeostasis, adaptation, immunity, predisposition, vulnerability, compensation mechanisms, feedback and "vicious circle" mechanism
	F.W1	occlusal norms at different stages of development and deviations from the norms
	F.W12	causes of complications in diseases of the stomatognathic system and principles of management in case of such

F.W14 methods of masticatory apparatus rehabilitation

Skills- Graduate* is able to:

complications

C.U4	predict and explain complex pathomechanisms of disorders leading to diseases
C.U5	analyse the clinical course of diseases in pathological processes
C.U12	replicate anatomical occlusal relations and perform occlusal analysis

^{*} In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 "graduate", not student is menti

5. Addition	5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)			
Number of effect of learning	Effects of learning in time			
Knowledge – Graduate knows and understands:				
W1	-			
Skills- Graduate is	Skills- Graduate is able to:			
U1	-			
Social Competencies – Graduate is ready for:				
K1	-			

orm of class	Class contents	Effects of Learning
S1- seminar 1-3	Components and functions of the stomatognathic system; anatomical and functional relationships within the system; static and dynamic occlusion.	A.W1, B.W8
S2 – seminar 4-6	Mandibular articulation: compensative curves, rest position of mandible, vertical dimension of occlusion and methods of its determination, centric relation occlusion vs habitual occlusion, methods of determination of centric relation position of mandible, mandibular guidance; mutually proteced occlusion; TMJs biomechanics	B.W8, F.W1
S3 – seminar 7-9	Norms of occlusion: ideal occlusion vs. optimal one, occlusal contacts and occlusal surfaces of teeth, occlusal forces and their distribution within the stomatognathic system, concepts of occlusion in natural dentition and complete dentures, consequences of uniaxial teeth loads, simplified occlusion concept.	F.W1
S4 – seminar 10-12	Reflex mechanisms within the stomatognathic system: compensation and adaptation mechanisms associated with changes of occlusion; premature contacts; necessary conditions for maintaining occlusal stability and consequences of unstable occlusion; compensatory mechanisms in reduced dentition; modes of adaptation to occlusal disturbances.	C.U5
S5 – seminar 13-15	Prevention of TMDs: parafunctional activity of masticatory system, etiological factors and symptoms of dysfunctions, compensated and not compensated dysfunctions, functional analysis of the masticatory system, principles and methods of occlusal rehabilitation, prophylaxis of TMDs in dentistry	F.W12,F.W14, C.U4, C.U5
S6 – seminar 16-18	Occlusion in malocclusions: general mechanisms of development of occlusion during developmental period and factors influencing tooth position in the post-developmental period, the non-conflict zone concept, simplified classification of malocclusions. Compendium of etiology, prevention and general concepts of malocclusions rehabilitation.	F.W1, C.U4
S7 – seminar 19-21	Articulators: types of face-bows and articulators, procedures of face-bow records and programming of semi-adjustable ariculators.	F.W14
S8 – seminar 25-40	Functional aspects of teeth morphology - 3D modeling of selected representatives of incisors, canines, premolars and molars in plastic material, regarding especially functional occlusal aspects of teeth surfaces.	C.U12

7. LITERATURE

Obligatory

- 1. Wheeler's Dental Anatomy, Physiology and Occlusion. Nelson S.J., Ash M.M. Saunders/Elsevier 2020
- 2. Management of Temporomandibular Disorders and Occlusion. Okeson J.P. Mosby/Elsevier 2019

Supplementary

- 1. Sturdevant's Art and science of operative dentistry. RitterA.V., Boushell L.W., Walter R. Elsevier Books 2018
- 2. Applied occlusion. Wassel R., Naru A., Steele J., Nohl F. 2015 Quintessence Publishing

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
A.W1, B.W8, F.W1, F.W12, F.W14, C.U4, C.U5	MCQ test – 50 questions	Achieving the expected learning outcomes - at least 55%
C.U12	Observation and assessment of practical skills	Completion of each task

9. ADDITIONAL INFORMATION (information essential for the course instructor that are not included in the other part of the course syllabus e.g. if the course is related to scientific research, detailed description of, information about the Science Club)

Completion of the course: no grade. Completion form: MCQ test, one retake - written test, open questions.

The teaching supervisor of the subject: Renata Lenkiewicz DDS, rlenkiewicz@wum.edu.pl

Presence on all seminars is obligatory to be admitted to the final test. The absence is excused providing medical certificate in 7 days – a form of completing the class is determined by the teacher. Being late more than 15 min. is treated as an absence.

Seminars are stationary classes with sanitary regime.

Students are required to change their shoes and leave the outer garments in the cloakroom. Students in the classroom must wear a medical (surgical) apron with a stand-up collar, knee-length 100 cm, tied at the back with strings. It's forbidden to use cell phones and other electronic devices during classes.

Department website: https://propedeutyka-stomatologiczna.wum.edu.pl

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ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students'

Survey of Evaluation of Classes and Academic Teachers