



Prosthetic Dentistry

1. IMPRINT	
Academic Year	2024/2025
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	Leopold Wagner DDS, PhD, lwagner@wum.edu.pl
Person responsible for syllabus	Renata Lenkiewicz DDS, rlenkiewicz@wum.edu.pl
Teachers	Renata Lenkiewicz DDS, rlenkiewicz@wum.edu.pl

2. BASIC INFORMATION			
Year and semester of studies	II year, III semester	Number of ECTS credits	4,0
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			

Lecture (L)	-	-
Seminar (S)	40	1,4
Discussions (D)	-	-
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

O1	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.
O2	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.
O3	Acquiring ability to define and explain complex mechanisms leading to occlusal disturbances, general symptoms, and consequences of these disorders.
O4	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
C.W12	concepts of homoeostasis, adaptation, immunity, predisposition, vulnerability, compensation mechanisms, feedback and "vicious circle" mechanism
F.W1	bite standards at different stages of individual development and deviations from standards
F.W12	causes of complications in the stomatognathic system diseases and the procedures for such complications
F.W14	methods of masticatory apparatus rehabilitation
Skills– Graduate* is able to:	

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	reproduce an anatomical bite alignment and carry out an occlusion analysis

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 able to:	
U1	-
Social Competencies – Graduate is ready for:	
K1	-

6. CLASSES

Form 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 protected 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 articulators.	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. Ritter A.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 60%
C.U12	Observation and assessment of practical skills	Completion of each task

9. ADDITIONAL INFORMATION

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. The student may also arrive at the academic teacher during her duty hours.

A student who receives a negative grade for a partial pass is entitled to 2 resist dates.

Being late more than 15 min. is treated as an absence.

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.

Student Scientific Club at the Department of Propaedeutics and Dental Prophylaxis, supervisor: Łukasz Zadrożny, DDS, PhD, e-mail:

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Department's website: <https://propedeutyka-stomatologiczna.wum.edu.pl>

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ATTENTION

The final 10 minutes of the last class of the block/semester/year should be allotted for students to fill out the Survey of Evaluation of Classes and Academic Teachers