



Prosthetic Dentistry

1. IMPRINT	
Academic Year	2022/2023
Department	Faculty of Dental Medicine Faculty of Medicine and Stomatology
Field of study	English Dentistry Division Medicine and Dentistry
Main scientific discipline <i>(in accord with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Medical science
Study Profile (general academic / practical)	General academic
Level of studies <i>(1st level / 2nd level / uniform MSc)</i>	Uniform MSc
Form of studies	Full-time program Extramural study (paid)
Type of module / course <i>(obligatory / non-compulsory)</i>	Obligatory
Form of verification of learning outcomes (exam / completion)	Completion
Educational Unit / Educational Units <i>(and address / addresses of unit / units)</i>	Department of Dental Propaedeutics and Prophylaxis 59 Nowogrodzka Str., 02-006 Warsaw, phone: 22 625 66 02 e-mail: zpips@wum.edu.pl

Appendix No 3 for Regulation No 42/2020 of MUW's Rector dated 5.03.2020 r.
Appendix No 4 for the procedure of development and periodical review of syllabuses

Head of Educational Unit / Heads of Educational Units	Leopold Wagner DDS, PhD
Course coordinator (title, First Name, Last Name, contact)	Prof. Jolanta Kostrzewa DDS, PhD, jolanta.kostrzewa-janicka@wum.edu.pl
Person responsible for syllabus (First name, Last Name and contact for the person to whom any objections concerning syllabus should be reported)	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 (concerns fields of study regulated by the Regulation of Minister of Science and Higher Education from 26 of July 2019; does not apply to other fields of study)

Code and number of effect of learning in accordance with standards of learning <i>(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)</i>	Effects in the field of morphological, preclinical and clinical science as well as the scientific foundations of medicine.
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Knowledge – Graduate* knows and understands:

A.W1.	structures of the human body: cells, tissues, organs and systems, with particular emphasis on the dental system human body structures: cells, tissues, organs and systems with particular emphasis on the dental system
B.W8.	mechanics of the masticatory apparatus
C.W12.	the concepts of homeostasis, adaptation, resistance, propensity, susceptibility, compensation mechanisms, feedback and the "vicious circle" mechanism concepts of homeostasis, adaptation, immunity, predisposition, vulnerability, compensation mechanisms, feedback and "vicious circle" mechanism
F.W1.	occlusal norms at various stages of individual development and deviations from the norms bite standards at different stages of individual development and deviations from standards
F.W12.	causes of complications of the stomatognathic system diseases and the principles of management in case of such complications causes of complications in the stomatognathic system diseases and the procedures for such complications
F.W14.	methods of rehabilitation of the masticatory apparatus methods of masticatory apparatus rehabilitation

Skills– Graduate* is able to:

C.U4.	predict and explain complex pathomechanisms of disorders leading to the development of diseases predict and explain complex pathomechanisms of disorders leading to diseases
C.U5.	analyze the clinical course of diseases in pathological processes analyse the clinical course of diseases in pathological processes
C.U12.	reproduce anatomic occlusal relations and analyze the occlusion reproduce an anatomical bite alignment and carry out an occlusion analysis

* In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate“, not student is menti

5. ADDITIONAL EFFECTS OF LEARNING (non-compulsory)

Number of effect of learning	Effects of learning in time
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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 proteeced 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 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 in implant therapy.	F.W1.
S4 – seminar 7-12	Reflex mechanisms within the stomatognathic system; compensation and adaptation mechanisms associated with changes in occlusion; premature contacts; necessary conditions for maintaining occlusal stability and consequences of unstable occlusion; compensation 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. 2014 Saunders/Elsevier
2. Management of Temporomandibular Disorders and Occlusion. Okeson J.P. 2019 Mosby/Elsevier
Supplementary
1. Occlusion made easy. Duminil G., Laplanche O., Carlier J., Re J. 2016 Corlet Imprimeur SA
2. Applied occlusion. Wassel R., Naru A., Steele J., Nohl F. 2015 Quintessence Publishing

— sformatowano: Angielski (Stany Zjednoczone)

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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	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.

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 let into the Department on scheduled time.

Students are required to change their shoes and leave the outer garments in the cloakroom.

It's forbidden to use cell phones and other electronic devices during classes.

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

— sformatowano: Podkreślenie

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