



## Pomorski Uniwersytet Medyczny w Szczecinie

### SYLLABUS of the MODULE (SUBJECT)

#### General information

Module name: <b>Occlusion norms and functions of the stomatognathic system</b>	
Module type	Obligatory
Faculty PMU	Medicine and Dentistry (WLS)
Major	Medical and Dentistry (KLD)
Specialty	n.a.
Level of study	long-cycle
Form of study	full-time/part-time
Year, semester of studies e.g. Year 1, semester (I and II)	Year 3 (semester V)
ECTS credits (incl. semester breakdown)	4
Type/s of training	Lectures-10h seminars-20h practical classes-30h Total – 60h
Form of assessment	Theoretical exam (test)
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Krzysztof Woźniak
Persons conducting classes	Prof. dr hab. Krzysztof Woźniak Dr Beata Rucińska-Grygiel Dr Hanna Bielawska-Victorini Dr Lilianna Szyszka-Sommerfeld Dr Agata Budzyńska Dr Agata Budzyńska (tutor)
Department's/Clinic's/Unit's website	<a href="https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-ortodoncji">https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-ortodoncji</a>
Language	Polish/English

### Detailed information

Module/subject objectives		The aim of the course is to prepare for contemporary dental treatment by integrating knowledge of the anatomy and physiology of the stomatognathic system in relation to systemic relationships.
Prerequisite /essential requirements	Knowledge	Knowledge, skills and competences at the level of the completion of II <sup>nd</sup> year of studies in the medical and dental field of study.
	Skills	
	Competences	

Description of learning outcomes for the module (subject)			
No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	Symbol (referring to) Assumed Learning Outcomes	Method of verification of of learning outcomes*
W01	knows occlusion norms in different phases of ontogenesis and deviations from norms	K_F.W01	Continuous assessment in practical classes/ practical skills assessment. Thematic oral seminars ET – test examination
W02	knows the causes and principles of treatment of complications of diseases of the stomatognathic system	K_F.W14	
U01	interprets results of ancillary tests	K_F.U06	
U02	diagnoses, differentiates and classifies malocclusion	K_F.U21	
U03	reproduces anatomic occlusion conditions and analyzes occlusion	K_C.U12	
K01	shows habit of self-education and lifelong education	K_K01	
K02	accepts need of standards of conduct and legislation regarding medical practice	K_K02	
K03	can co-operate with team members and care about occupational safety	K_K03	
K04	understands sense of responsibility for entrusted property	K_K07	

**Table presenting LEARNING OUTCOMES in relation to the form of classes**

No.	Symbol (referring to) Assumed Learning Outcomes	Form of didactic classes							
		Lecture	Seminar	Practical	Clinical classes	...	...	...	others ...
1.	K_F.W01	X	X	X					
2.	K_F.W14	X	X	X					
3.	K_F.U06		X	X					
4.	K_F.U21		X	X					
5.	K_C.U12		X	X					
6.	K_K01	X	X	X					
7.	K_K02		X	X					
8.	K_K03		X	X					
9.	K_K04		X	X					

**Learning content**

No.	Description of learning content	Number of hours	Referring to learning outcomes for the module
	Lectures		
TK 01	Prenatal development. Disorders of occlusal development in the fetal period. Clefts. First period of teeth replacement. Second period of teeth replacement. Effect of occlusion on the oral cavity; Reflex and adaptation mechanisms of the stomatognathic system. Acquired occlusion defects. Functional and morphological disorders of the masticatory organ. Dysfunctions and parafunctions.	10	W01, W02, K01
	Seminars:	20	
TK 02	Development of the masticatory organ. Periods of individual development. Muscles of stomatognathic system and their function. Temporomandibular joint: structure, function, development. Central, lateral, incisor articulation; resting position, lateral movements, resting fissure, masticatory function. Functions: sucking, swallowing (visceral, mature), chewing, breathing, participation in speech. Norms of development of the masticatory organ in fetal period. Masticatory organ in infancy until the eruption of milk teeth - stages of tooth development. Bite in milk teeth, Baum's classes - differences between milk and permanent teeth. Eruption - periods of eruption of milk and permanent teeth. First period of teeth replacement. Second period of teeth replacement. Shape, size, number, structure of permanent teeth. Functional and morphological disorders of the masticatory organ. Dysfunctions and parafunctions. Effects of occlusion on the mammary; reflex and adaptive mechanisms of the stomatognathic system. Disorders of occlusal development in the fetal period. Clefts. Acquired occlusion defects.		W01, W02, U01, U02, U03, K01, K02, K03, K04

	Practical classes	30	
TK 03	Practical application of the acquired theoretical knowledge during practical classes.		W01, W02, U01, U02, K01, K02, K03,

Booklist			
Obligatory literature			
1. S. W. Majewski: Gnatofizjologia stomatologiczna. Normy okluzji i funkcje układu stomatognathic system. Wydawnictwo Lekarskie PZWL, 2007.			
2. M. Kleinrok: Zaburzenia czynnościowe układu ruchowego narządu żucia. Wydawnictwo Sanmedia, 1992.			
3. I. Karłowska: Zarys współczesnej ortodoncji. Podręcznik dla studentów i lekarzy stomatologów. Wydawnictwo Lekarskie PZWL, 2001.			
Literatura uzupełniająca			
1. A. Bochenek, M. Reicher: Anatomia człowieka. Wydawnictwo Lekarskie PZWL.			
2. T. W. Sadler: Embriologia Lekarska, Wydawnictwo Med. Tour. Press, 1993.			
Student's workload (balance of ECTS credits)			
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]		
	Tutor	Student	Average
Contact hours with the tutor	60		
Time spent on preparing to practical classes/seminars	10		
Time spent on reading recommended literature	10		
Time spent on writing report on Laboratory/practical classes/making project/paper etc.			
Time spent on preparing to colloquium/short test			
Time spent on preparing to exam	20		
Other .....			
Student's workload in total	100		
ECTS credits for the module/subject	4		
Notes			

\* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

R – report

S – practical skills assessment

RZC – practical classes report, incl.

discussion on results

O – student's active participation and

attitude assessment

SL – laboratory report

SP – case study

PS - assessment of student's ability to work independently

W – entry test  
PM – multimedial presentation  
and other