



Pomorski Uniwersytet Medyczny w Szczecinie
SYLLABUS of the MODULE
(SUBJECT)

General information

Module name: Orthodontics	
Module type	Obligatory
Faculty PMU	Medicine and Dentistry (WLS)
Major	Medical and Dentistry (KLD)
Specialty	n.a.
Level of study	Long-cycle studies
Form of study	full-time/part-time
Year, semester of studies e.g. Year 1, semester (I and II)	Year 5 (semester IX and X)
ECTS credits (incl. semester breakdown)	7 ECTS (semester TK - 5, semester – 5)
Type/s of training	Seminars –10h (sem. IX) Practical classes–95h(sem. IX – 50h, sem. X – 45h) Total 105h
Form of assessment	Practical and 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 (tutor) Dr Hanna Bielawska-Victorini Dr Hanna Bielawska-Victorini Dr Lilianna Szyszka-Sommerfeld Dr Agata Budzyńska Dr Paweł Tsynkiel
Department's/Clinic's/Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-ortodoncji
Language	Polish/English

Detailed information

Module/subject objectives		<p>The aim of the course is: to integrate knowledge on ontogenetic and phylogenetic development of the craniofacial part of the skull in connection with orthodontics, to learn how to assess the proper development of the masticatory organ, ability to assess the condition of the masticatory organ in terms of malocclusion, knowledge of etiology of malocclusion, ability to perform selected treatments in prevention and early orthodontic treatment, knowledge of malocclusion treatment techniques with modern methods using modern tools and equipment.</p>
Prerequisite /essential requirements	Knowledge	Knowledge, skills and competences at the level of the completion of IVrd 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)	Symbol (referring to) Assumed Learning Outcomes	Method of verification of learning outcomes*
W01	knows the occlusion norms at different stages of individual development and deviations from norms	K_F.W01	Continuous assessment in practical classes/practical skills assessment. Thematic oral seminars Practical and theoretical exam (test).
W02	knows and understands the mechanisms leading to organ and systemic pathologies (including disease, infectious, autoimmune and immunodeficiency metabolic and genetic)	K_F.W02	
W03	knows the principles of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development	K_F.W03	
W04	know the rules of construction and operation of removable and fixed orthodontic appliances	K_F.W20	
U01	takes medical history with a patient or his/her family	K_F.U01	
U02	carries out physical examination of patient	K_F.U02	
U03	explains to the patient the nature of his/her condition, determines the course of treatment, confirmed by patient's free consent and prognosis	K_F.U03	

U04	imparts information about the unfavourable health condition to the patient or his/her relatives	K_F.U04	
U05	interprets results of ancillary tests	K_F.U06	Continuous assessment in practical classes/practical skills assessment. Thematic oral seminars Practical and theoretical exam (test).
U06	finds indications as to performance of certain dental procedure	K_F.U07	
U07	knows prophylaxis of oral cavity diseases	K_F.U08	
U08	knows the rules of conduct diseases of stomatognathic system tissues, tooth and jaw bones	K_F.U09	
U09	knows the principles of conduct in the event of general and local complications during and after dental procedures	K_F.U11	
U10	keeps day-to-day patient's records, refers patient to examination or special dental or special dental and general medical treatment	K_F.U13	
U11	identifies research issues connected with his/her work	K_F.U14	
U12	presents selected medical issues in written or oral form relevantly to the recipient level	K_F.U15	
U13	establishes treatment in diseases of stomatognathic system tissues	K_F.U18	
U14	diagnoses, differentiates and classifies malocclusion	K_F.U21	
U15	provides first aid in case of orthodontic appliance damage	K_F.U22	
U16	executes simple orthodontic appliances	K_F.U23	
U17	performs occlusion defect prevention procedure during period of deciduous dentition and early replacement of dentition	K_F.U24	
K01	shows habit of self-education and lifelong education	K_K01	
K02	accepts the need for ethical standards and legal conditions relating to the exercise of the profession	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		
		Form of didactic classes

No.	SYMBOL (referring to) Assumed Learning Outcomes	Lecture	Seminar	Practical	Clinical classes	others ..
1.	K_F.W01		X		X				
2.	K_F.W02		X		X				
3.	K_F.W03		X		X				
4.	K_F.W20		X		X				
5.	K_F.U01				X				
6.	K_F.U02				X				
7.	K_F.U03				X				
8.	K_F.U04				X				
9.	K_F.U06		X		X				
10.	K_F.U07		X		X				
11.	K_F.U08		X		X				
12.	K_F.U09		X		X				
13.	K_F.U11		X		X				
14.	K_F.U13				X				
15.	K_F.U14		X		X				
16.	K_F.U15		X		X				
17.	K_F.U18		X		X				
18.	K_F.U21		X		X				
19.	K_F.U22				X				
20.	K_F.U23				X				
21.	K_F.U24				X				
22.	K_K01		X		X				
23.	K_K02		X		X				
24.	K_K03		X		X				
25.	K_K07		X		X				

Learning content			
No.	Description of learning content	Number of hours	Referring to learning outcomes for the module
	Seminars		
TK 01	Orthodontic prophylaxis. Braces, advantages, disadvantages, clinical selection. Grinding of deciduous teeth. Extractions in orthodontics. Treatment of malocclusion with removable braces - mechanical braces. Treatment of malocclusion with removable braces - functional braces. Contraction bite - the rules of collection. Interpretation of teleroentgenograms according to Hasund-Segner method. Practical assessment of bone age, dental age in relation to the calendar age.	10	W01, W02, W03, W04, U05, U06, U07, U08, U09, U11, U12, U13, U14, K01, K02, K03, K04
	Practical classes		
TK 02	Practical application of the acquired theoretical knowledge during clinical classes with patients	95	W01, W02, W03, W04, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16, U17, K01, K02, K03, K04

Booklist			
Obligatory literature			
1. I. Karłowska: Zarys współczesnej ortodoncji. Podręcznik dla studentów i lekarzy stomatologów. Wydawnictwo Lekarskie PZWL, 2001			
2. F. Łabiszewska-Jaruzelska: Ortopedia szczękowa. Zasady i praktyka. Podręcznik dla studentów stomatologii. Wydawnictwo Lekarskie PZWL, 1995.			
3. G. Śmiech-Słomkowska, W. Rytłowa: Profilaktyka i wczesne leczenie ortodontyczne. Wybrane zagadnienia. Wydawnictwo Lekarskie PZWL, 1999.			
4. Frank Nötzel, Christian Schultz: Kompendium diagnostyki ortodontycznej. Wydawnictwo Czelej, 2004.			
5. Emil Witt, Marta-Elisabeth Gehrke, Anna Komorowska: Wykonywanie aparatów zdejmowanych. Podręcznik dla techników, studentów i lekarzy ortodontów. Wydawnictwo Kwintesencja, 1999.			
Supplementary literature			
1. W. Łasinski: Anatomia Głowy dla Stomatologów. 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	105		
Time spent on preparing to practical classes/seminars	15		
Time spent on reading recommended literature	30		
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	40		
Other			
Student's workload in total	190		
ECTS credits for the module/subject	7		
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 RZĆ –

practical classes report, incl. discussion on

results O – student's active participation and

attitude assessment SL – lab report

SL – laboratory report SP – case

study

PS - assessment of student's ability to work
independently W – entry test PM –
multimedial presentation
and other