



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE Orthodontics valid from the academic year 2017/2018

General Information

Module title	Orthodontics
Module type	<i>Obligatory</i>
Faculty	<i>Faculty of Medicine and Dentistry</i>
Field of study	<i>Medicine and Dentistry</i>
Major	<i>Not applicable</i>
Level of study	long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	<i>Year III semester VI</i>
ECTS credits (incl. semester breakdown)	2
Type/s of training	<i>lectures (10h) seminars (10h) practical (25h) together 45 h</i>
Form of assessment	non-graded assessment
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Krzysztof Woźniak
Tutor responsible for the module	lek. dent Agnieszka Warmbier (didactics lecturer) dr n. med Katarzyna Lubińska lek. dent Sylwia Jagła
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-ortodoncji
Language	English

Detailed information

Module objectives		The aim of the subject is knowledge integration of ontogeny and phylogeny face structures development according to orthodontics, ability of evaluation if the masticatory system is developing correct, knowledge of malloclussions ethiology, skills in prophylaxis and early orthodontic treatment, knowledge of common treating techniques	
Prerequisite /essential renversement	Knowledge	Knowledge, skills, competence - level of proficiency II year dentistry graduate	
	Skills		
	Competences		
Description of the learning outcomes for the subject /module			
No. of learning outcome	Student, who has passed the (subject) knows /is able to /can:	SYMBOL (referring the standards) ZEK	Method of verification of learning outcomes *
W01	knows occlusion norms in different phases of ontogenesis and deviations from norms	K_F.W01	Permanent evaluation/ practical skills control. Oral seminars. Test exam.
W02	knows and understands mechanism leading to organ and systemic pathology (incl. of infection, auto-immunological diseases and ones caused by immune deficit, metabolic and genetic diseases)	K_F.W02	
W03	knows rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development	K_F.W03	
W04	knows viral, bacterial and mycotic flora of oral cavity and importance thereof	K_F.U20	
U01	interviews patient or his/her family	K_F.U01	

U02	carries out physical examination of patient	K_F.U02	
U03	provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis	K_F.U03	
U04	provides patient or his/her relatives with bad news about health state	K_F.U04	
U05	interprets results of ancillary tests	K_F.U06	
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 procedures applicable to diseases of stomatognathic system tissues, tooth and jaw bones	K_F.U09	
U09	knows procedures applicable to cases of general and local complications during and after dental treatment	K_F.U11	
U10	keeps day-to-day patient's records, refers patient to general and special dental and medical examination or 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 recipient standards	K_F.U15	
1U3	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 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 of the subject/module in relation to the form of classes

No.	SYMBOL (referring the standards) ZEK	Type/s of training						
		L e c t u r e	S e m i n a r	P r a c t i c a l c l a s s e s	C l i n i c a l c l a s s e s	.	.	O t h e r ...
1.	K_F.W01	X	X		X			
2.	K_F.W02	X	X		X			

3.	K_F.U03	X	X		X				
4.	K_F.W20	X	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				
24.	K_K03				X				

25.	K_K07				X				
Module (subject) contents no.	Description of teaching programme	No. of hours	References to learning outcomes						
	Lectures:								
TK 01	Impressions and casts. Impression material and impression trays. Types of casts. Articulators. Malocclusion aethiology. Dysfunctions and parafunctions. Examination. Face analysis. Function tests. Casts analysis. Indices analysis. Panoramic radiographs. Pantomograms analysis. dental abnormalities, bone age. Cephalometrics.	10	W01, W02, W03, W04, K01						
	Seminars:								
TK 02	Impressions and casts-practice, characteristics of well done impression.Orthodontic interview, physical and functional examination; Assesment of the profiles of the patients. Extraoral examination; Landmarks and planes of reference; biometric field;The analysis of the casts (Angle'a classess, canine classess, overbite, and over-jet)Analysis of indices: Bolton tooth ratio, Pont, Tonn, Moyers, Droschl, Izard – measurements and interpretation of results, necessary instruments. Filling out of orthodontic chartsDiagnostic of malocclusion – analysis of the casts and profile assessmentPanoramic radiographs – analysis. Dental age – clinical (acc. Matiega i Lukasowa) and radiological (acc. Demirjan) methods of assessment. Practical exercise with radiograms and castsCephalometrics by Segner and HasundMechanical and prophylaxis appliances,Functional appliances; construction, types, principle of use, constructive bite registration for functional appliancesUsing of removable applainces	10	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						
	Practical classes:								

TK 03	Practical use of theoretical knowledge purchased during classes	25	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:			
1Jeffrey P. Okeson: Managment of Temporomandibular Disorders and Occlusion, June 2007, ISBN: 0323046142			
2 Mitchell Laura: An introduction of ortodontics. 2007			
3William R. Proffit [et al.]: Contemporary orthodontics. 4 th ed. 2006			
Supplementary literature:			
1Moyers, Robert E. Tytuł Handbook of orthodontics for the student and general practitioner. 3 ed. Chicago ; London : Year Book Medical Publ., 1973.			
2 Jeryl D. English, Timo Peltomäki, Kate Pham-Litschel: Mosby's orthodontic review/ Orthodontic review. St. Louis : Mosby Elsevier, cop. 2009.			
3 Samir E. Bishara, [contributors Athanasios E. Athanasiou [et al.]: Textbook of orthodontics . Philadelphia: W. B. Saunders Co., cop. 2001.			
Student's workload (balance sheet 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	45		
Time spent on preparation to seminars/ practical classess	10		
Time spent on reading recommended literature	10		
Time spent on writing report/making project	0		
Time spent on preparing to colloquium/ entry test	5		
Time spent on preparing to exam			
Other			
Student's workload in total	70		
ECTS credits for the subject (in total)	2		
Remarks			

* 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 – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedial presentation

other...