



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

Module title: ORTHODONTICS	
Module type	ObligatorY
Faculty PMU	Faculty of Medicine and Dentistry
Major	Dentistry
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year IV : semester VII and VII
ECTS credits (incl. semester breakdown)	7
Type/s of training	Lectures (8h) seminars (5h)/ practical (25h)
Form of assessment	<input type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input checked="" type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Krzysztof Woźniak
Tutor responsible for the module	lek.dent. Agnieszka Warmbier
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/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 malocclusions etiology, skills in prophylaxis and early orthodontic treatment, knowledge of common treating techniques
Prerequisite /essential requirements	Knowledge	<i>Knowledge, skills, competence - level of proficiency III year dentistry graduate</i>
	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)	Method of verification of learning outcomes*
W01	knows occlusion norms in different phases of ontogenesis and deviations from norms	K_F.W01	verification of knowledge during clinical exercises and on phantom casts. Final practical and 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	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
W03	knows rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development	K_F.W03	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.

W04	knows viral, bacterial and mycotic flora of oral cavity and importance thereof	K_F.U20	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.
U01	interviews patient or his/her family	K_F.U01	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U02	carries out physical examination of patient	K_F.U02	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U03	provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis	K_F.U03	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U04	provides patient or his/her relatives with bad news about health state	K_F.U04	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U05	interprets results of ancillary tests	K_F.U06	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U06	finds indications as to performance of certain dental procedure	K_F.U07	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U07	knows prophylaxis of oral cavity diseases	K_F.U08	assessment in clinical exercises with patients(oral seminars/final practical and test exam.

U08	knows procedures applicable to diseases of stomatognathic system tissues, tooth and jaw bones	K_F.U09	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U09	knows procedures applicable to cases of general and local complications during and after dental treatment	K_F.U11	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U10	keeps day-to-day patient's records, refers patient to general and special dental and medical examination or treatment	K_F.U13	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U11	identifies research issues connected with his/her work	K_F.U14	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U12	presents selected medical issues in written or oral form relevantly to recipient standards	K_F.U15	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U13	establishes treatment in diseases of stomatognathic system tissues	K_F.U18	assessment in clinical exercises with patients(oral seminars/final practical and test exam.
U14	diagnoses, differentiates and classifies malocclusion	K_F.U21	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.
U15	provides first aid in case of orthodontic appliance damage	K_F.U22	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.

U16	executes simple orthodontic appliances	K_F.U23	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.
U17	performs occlusion defect prevention procedure during period of deciduous dentition and early replacement of dentition	K_F.U24	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.
K01	shows habit of self-education and lifelong education	K_K01	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.
K02	accepts need of standards of conduct and legislation regarding medical practice	K_K02	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.
K03	can co-operate with team members and care about occupational safety	K_K03	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.
K04	understands sense of responsibility for entrusted property	K_K07	verification of knowledge during clinical exercises and on phantom casts. Final practical and test exam.

Table presenting LEARNING OUTCOMES in relation to the form of classes

No. of	Learning outcomes	Type of training
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learning outcome		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 e s	C l i n i c a l c l a s s e s e s	S i m u l a t i o n s	F - l e a r n i n g	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		X			
23.	K_K02		X		X			
24.	K_K03		X		X			
25.	K_K07		X		X			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Winter semester			
Lectures			
TK01	Orthodontic interview, physical and functional examination; Assessment of the profiles of the patients. Extraoral examination; Landmarks and planes of reference; biometric field; The analysis of the casts (Angle's classes, canine classes, overbite, and overjet) Analysis of indices: Bolton tooth ratio, Pont, Tonn, Moyers, Droschl, Izard – measurements and interpretation of results, necessary instruments. Filling out of orthodontic charts Diagnostic of malocclusion – analysis of the casts and profile assessment Panoramic radiographs – analysis. Dental age – clinical (acc. Matiega i Lukasowa) and radiological (acc. Demirjan) methods of assessment. Practical exercise with radiograms and casts Cephalometrics by Segner and Hasund Mechanical and prophylaxis appliances, Functional appliances; construction, types, principle of use, constructive bite registration for functional appliances Using of removable appliances	8	W01, W02, W03, W04, K01
Seminars			

TK01		5	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 01	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
Simulation			
E-learning			

Booklist
Obligatory literature:
1 Jeffrey P. Okeson: Managment of Temporomandibular Disorders and Occlusion, June 2007, ISBN: 0323046142
2 Mitchell Laura: An introduction of ortodontics. 2007
3 William 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	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	70
Time spent on preparation to seminars/ practical classess	10
Time spent on reading recommended literature	10
Time spent on writing report/making project	
Time spent on preparing to colloquium/ entry test	
Time spent on preparing to exam	
Other	
Student's workload in total	90
ECTS credits for the subject (in total)	4
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...