



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Occlusion norms and functions of stomatognathic system	
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 III semester V
ECTS credits (incl. semester breakdown)	3
Type/s of training	lectures (10h) /seminars (20h)/ practical (30h)
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 type="checkbox"/> non-graded assessment <input checked="" type="checkbox"/> final examination <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" 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-lekarsko-stomatologiczny/zaklad-ortodoncji
Language	English

Detailed information

Module objectives		The aim of the subject is preparation to present dentistry through integration of knowledge in anatomy and physiology of stomatognathic system
Prerequisite /essential requirements	Knowledge	<i>Knowledge, skills, competence - level of proficiency II 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	assessment during exercises/ practical skills check.Oral thematic seminars
W02	knows causes and procedures for management with complications of stomatognathic system diseases	K_F.W14	assessment during exercises/ practical skills check.Oral thematic seminars
U01	interprets results of ancillary tests	K_F.U06	assessment during exercises/ practical skills check.Oral thematic seminars

U02	diagnoses, differentiates and classifies malocclusion	K_F.U21	assessment during exercises/ practical skills check.Oral thematic seminars
K01	shows habit of self-education and lifelong education	K_K01	assessment during exercises/ practical skills check.Oral thematic seminars
K02	accepts need of standards of conduct and legislation regarding medical practice	K_K02	assessment during exercises/ practical skills check.Oral thematic seminars

Table presenting LEARNING OUTCOMES in relation to the form of classes

No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical classes	Clinical classes	Simulations	E-learning	Other...
W01	K_F.W01	X	X	X				
W02	K_F.W14	X	X	X				
U01	K_F.U06		X	X				
U02	K_F.U21		X	X				
K01	K_K01	X	X	X				
K02	K_K02		X	X				
K03	K_K03		X	X				
K04	K_K04		X					

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Winter semester			
Lectures			
TK01	prenatal development of masticatory system; primary and secondary palate. First and second period of tooth eruption. Temporomandibular joint, Functional alnd morphological malocclusions. Dysfunctions and Parafunctions.	10	W01, W02, K01
Seminars			
TK01	Development of masticatory system (movie). Periods of ontogenesis. Masticatory system – anatomy; skeletal system; primary and secondary dentition. Muscles of masticatory system, tendons, fascias, ligaments, muscle attachments, function. masticatory muscles supra- and infrahyoid muscles, tongue muscles, mimetic muscles, palatal and uvula muscles. Periodontal tissue: morphology, receptors, relationship with orthodontic treatment (tooth movement mechanism). Structure of mucous membrane and its function in stomatognathic system Nervous system and vascular system. Function of particular components of stomatognathic system. Temporomandibular joint: anatomy, function, development. Centric and lateral occlusion, anterior guidance, rest position and rest space; bite strength, chewing effectiveness. Functions: sucking, swallowing, chewing, respiration, speech, licking, kissing, blowing, whistling, sneezing, cough, hiccup. Norms of prenatal development of masticatory system; primary and secondary palate; relation between position and shape of maxilla and mandible. Masticatory system in the infant period before teeth eruption – phases of tooth development. Occlusion in deciduous dentition (anatomy review), canine classes, Baume's classes; differences between primary and secondary dentition. Deciduous and permanent teeth eruption schedule; mechanisms of tooth eruption.	20	W01, W02, U01, U02, K01, K02, K03, K04
Practical classes			
TK 01	Students should be prepared for classes. The knowledge is checked on every practical part of the classes in small groups	30	W01, W02, U01, U02, K01, K02, K03, K04
Simulation			
E-learning			

Booklist
Obligatory literature:
1 Jeffrey P. Okeson: Management of Temporomandibular Disorders and Occlusion, June 2007, ISBN: 0323046142
2 Mitchell Laura: An introduction of ortodontics. 2007
Supplementary literature:
1 Moyers, 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	60
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	20
Other	
Student's workload in total	100
ECTS credits for the subject (in total)	3
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...