



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 3, semester V
ECTS credits (incl. semester breakdown)	3
Type/s of training	lectures (7h) / e-learning lectures (3h) / 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. Jacek Światała
Department's/ Clinic's/ Unit's website	Zakład Ortodoncji PUM al. Powst. Wlkp. 72, 70-111 Szczecin tel.: 91 4661702 e-mail: kizortod@pum.edu.pl https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-ortodoncji
Language	English

* replace ☐ into ☒ where applicable

Detailed information

Module objectives		The aim of the course is to prepare for modern dental treatment by integrating the knowledge of the anatomy and physiology of the stomatognathic in systemic relations.
Prerequisite /essential requirements	Knowledge	<i>Knowledge, skills and competences at the graduation level of the second year of studies in the field of medicine and dentistry.</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 and understands occlusion norms and deviations in different phases of ontogenesis	F.W1.	S, O, ET
W02	knows and understands causes of complications of stomatognathic system diseases and the rules of their management	F.W12.	S, O, ET
U01	is able to interpret results of auxiliary diagnostics and consultations	F.U6.	S, O, ET
U02	is able to diagnose, differentiate and classify malocclusion	F.U18.	S, O, ET
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5.	S, O
K02	is ready to draw conclusions from own measurements or observations	K.8.	S, O

Table presenting LEARNING OUTCOMES in relation to the form of classes

No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other forms
W01	F.W1.	X	X	X			X	
W02	F.W12.	X	X	X			X	
U01	F.U6.		X	X				
U02	F.U18.	X	X	X			X	
K01	K.5.			X				
K02	K.8.			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. Bite development disorders in the fetal period. Clefts. The first period of teeth replacement. The second period of teeth replacement. The influence of the bite on the TMJ; reflexes and adaptive mechanisms of the stomatognathic system. Acquired malocclusion. Functional and morphological disorders of the masticatory organ. Dysfunctions and parafunctions.	7	W01, W02, U02
Seminars			
TK01	Development of the masticatory system. Periods of individual development. Muscles of the stomatognathic system and their function. Temporomandibular joint: structure, function, development. Central, lateral, incisal occlusion; resting position, lateral movements, resting gap, chewing. Functions: sucking, swallowing (visceral, mature), chewing, breathing, participating in speech. The norms of the development of the masticatory apparatus in the fetal period. Chewing organ in infancy until the eruption of milk teeth - stages of tooth development. Bite in the deciduous dentition, Baum class - differences between the deciduous and permanent dentition. Eruption - periods of the eruption of deciduous and permanent teeth. The first period of teeth replacement. The second period of teeth replacement. Shape, size, number, and structure of permanent teeth. Functional and morphological disorders of the masticatory organ. Dysfunctions and parafunctions. The influence of the bite on the TMJ; reflex and adaptive mechanisms of the stomatognathic system. Bite development disorders in the fetal period. Clefts. Acquired malocclusion.	20	W01, W02, U01, U02
Practical classes			
TK01	Practical application of the acquired knowledge theoretical during the exercises.	30	W01, W02, U01, U02, K01, K02
Simulation			
E-learning			
TK01	Stages of bite development in deciduous and permanent dentition. Malocclusion - classification, etiology, diagnosis, differentiation. Prenatal development. Bite development disorders in the fetal period. Clefts. Functional and morphological disorders of the masticatory organ.	3	W01, W02, U02

Booklist

Obligatory literature:

1. M.T. Cobourne, A.T. DiBiase: Handbook of Orthodontics. Elsevier 2015

2. Moyers, Robert E. Tytuł Handbook of orthodontics for the student and general practitioner. 3 ed. Chicago; London: Yearbook Medical Publ., 1973

Supplementary literature:

1. Jeffrey P. Okeson: Management of Temporomandibular Disorders and Occlusion, June 2007, ISBN: 0323046142
2. Mitchell Laura: An introduction of orthodontics. 2007

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 classes	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...