



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) valid from the academic year 2018/2019

General Information

Module title	Physiology of stomatognathic system
Module type	Obligatory
Faculty	Faculty of Medicine and Dentistry
Field of study	Medicine and Dentistry
Major	Not applicable
Level of study	long-cycle (S2J)
Mode of study	intramural
Year of studies, semester	Year I, semester II
ECTS credits (incl. semester breakdown)	3
Type/s of training	lectures (5h) /seminars (10h)/ practical (30h)
Form of assessment	- graded assessment - final examination: test and practical
Head of the Department/ Clinic, Unit	Dr n. med. Danuta Lietz - Kijak
Tutor responsible for the module	Lek. dent. Elżbieta Kubala elzbieta.kubala@pum.edu.pl Lek. dent. Paulina Strzelecka pkstrzelecka@gmail.com
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/zaklad-propedeutyki-i-fizykodiagnostyki-stomatologicznej
Language	English

Detailed information

Module objectives		<p>The aim of teaching the subject is:</p> <ol style="list-style-type: none"> 1. Obtaining knowledge about the structure of: cells, tissues, organs and systems with particular emphasis on the stomatognathic system; 2. Acquiring the ability to recognize and mark the milk and permanent teeth
Prerequisite /essential requirements	Knowledge	<i>Knowledge of normal anatomy in topographical and functional terms, along with histological structure of teeth and periodontium</i>
	Skills	<i>Manual skills necessary to make a drawing and tooth models</i>
	Competences	<i>Self-education habit</i> <i>Ability to work in a group</i> <i>Communication skills</i>

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	demonstrates knowledge of human body structures: cells, tissues and systems with particular regard to stomatognathic system	K_A.W01	ET – test examination EPR – practical examination K – colloquium
W02	explains development of organs and entire body with particular regard to masticatory system	K_A.W02	ET – test examination EPR – practical examination K – colloquium
W03	knows body structure in terms of topography and functions	K_A.W03	ET – test examination EPR – practical examination K – colloquium
W04	understands role of nervous system for functions of certain organs	K_A.W04	ET – test examination EPR – practical examination K – colloquium
W05	knows occlusion norms in different phases of ontogenesis and deviations from norms	K_F.W01	ET – test examination EPR – practical examination K – colloquium
W06	knows rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development	K_F.W03	ET – test examination EPR – practical examination K – colloquium
W07	knows viral, bacterial and mycotic flora of oral cavity and importance thereof	K_F.W04	ET – test examination EPR – practical examination K – colloquium
K01	shows habit of self-education and lifelong education	K_K01	ET – test examination EPR – practical examination K – colloquium

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							
		Lecture	Seminar	Practical classes	Clinical classes	Other...
1.	K_A.W01	X	X	X	-	-	-	-	-
2.	K_A.W02	X	X	X	-	-	-	-	-
3.	K_A.W03	X	X	X	-	-	-	-	-
4.	K_A.W04	-	-	X	-	-	-	-	-
5.	K_F.W01	-	-	X	-	-	-	-	-
6.	K_F.W04	X	-	X	-	-	-	-	-
7.	K_F.W03	-	-	X	-	-	-	-	-
8.	K_K01	X	X	X	-	-	-	-	-

Module contents no.	Description of teaching programme	No. of hours	References to learning outcomes
LECTURES			
TK.01	Introduction to the topic of masticatory organ physiology.	1	W01, W02, W03, K01
TK.02	Anatomical structure of milk teeth and permanent teeth	1	W01, W02, W03, K01
TK.03	Saliva - its composition and functions. Biochemical processes in the oral cavity. PH test and buffer indicators.	1	W04, W03, K01
TK.04	Norms of occlusion and functional disorders of the masticatory apparatus	1	W03, W01, W01, K01
TK.05	Tensegration of functional disorders of the masticatory system and postural defects	1	W01, W02, W03, W04, K01
SEMINARS			
TK.01	The anatomical structure of permanent teeth and their role in the oral cavity. Milk teeth - anatomy, physiology, functions of individual groups. Determination and differentiation of permanent and dairy teeth.	3	W01, W02, W03, K01
TK.02	Combination teeth. Recognition and determination of mixed dentition on plaster models. The role of the root canal and root canal of the milk and permanent tooth. The specificity of chambers and root canals in permanent and dairy teeth. The role of the vaso-nerve bundle. Diagnosis of the root canal, including the physical one. Possibility of clinical examination. The reaction of periapical pulp and periodontium to physical tests.	2	W01, W02, W03, W04, K01
TK.03	The process of breathing. Snore. The process of sucking, chewing and swallowing. Speech articulation. The nervous-muscular system of the masticatory organ. Mechanism of muscle contraction and its types. Neuromuscular transmission. Application of electromyography.	2	W01, W02, W03, W04, K01
TK.04	Periodontium, oral mucosa, role and tasks. Physiology and diagnostic possibilities using physical tests.	3	W01, W02, W03, W07, K01
PRACTICAL			
TK.01	Permanent teeth, a chopper and fangs. Drawing in five projections.	3	W01, W02, W03, K01
TK.02	Modeling of permanent teeth: incisors and canines. Practical pass.	3	W01, W02 K01
TK.03	Permanent tooth teeth. Drawing in five projections. Practical pass.	3	W01, W02, W03, K01
TK.04	Modeling of premolar teeth. Practical pass.	3	W01, W02, W03, K01
TK.05	Solid molar teeth. Drawing in five projections. Practical pass.	3	W01, W02, W03, K01
TK.06	Modeling molar teeth. Practical pass.	3	W01, W02, W03, K01
TK.07	Prevention, oral hygiene. Plaque deposits. Sediments in the mouth. Plaque and its role in the physiology of the masticatory organ. Practical part: detection of plaque and methods of its removal	3	W01, W02, W03, W06, K01
TK.08	Saliva - its composition and functions. Biochemical processes in the oral cavity. PH test and buffer indicators.	3	W01, W03, W06, W07, K01
TK.09	Temporomandibular joint. Anatomy, physiology, biomechanics. Practical part: palpation methods of joint examination.	3	W01, W03, K01
TK.10	Physiological occlusion standards. Static and dynamic occlusion. Statics and dynamics of the mandible. Occlusion diagnosis (carbon, wax, Tscan)	3	W01, W03, W05, K01

Booklist			
Obligatory literature:			
1. Anatomy of Orofacial Structures, 7th edition, Brand			
2. Wheeler’s Dental Anatomy, Physiology and Occlusion, Ash, Nelson			
3. Anatomy of the Teeth Anatomical Chart”, Anatomical Chart Company			
Supplementary literature:			
1. Oral Anatomy, Histology and Embryology, 4th Edition, Berkovitz			
2. Netter’s Head and Neck Anatomy for Dentistry, Norton			
3. Evidence-Based Dentistry: An Introduction, Hackshaw, Paul,Daven			
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	5		
Time spent on reading recommended literature	5		
Time spent on writing report/making project	2		
Time spent on preparing to colloquium/ entry test	5		
Time spent on preparing to exam	10		
Other	-		
Student’s workload in total	72		
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...