



Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (SUBJECT) General information

Module title: ANATOMY AND PHYSIOLOGY OF THE STOMATOGNATHIC SYSTEM	
Module type	Obligatory
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medicine and Dentistry
Specialty	-
Level of study	long-cycle
Mode of study	full-time/part-time
Year of studies, semester	1st year/semester 2
ECTS credits (incl. semester breakdown)	5
Type/s of training (Number of hours)	Lectures (8 h) /seminars (13 h) /practical classes (39 h)
Form of assessment ¹	<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 checked="" type="checkbox"/> final examination: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input checked="" type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department/Clinic, Unit	Dr hab. n. med. Danuta Lietz - Kijak
Tutor responsible for the module	Dr n. med. Piotr Skomro
Name and contact data of the unit	Department of Propedeutics, Physiognosics and Dental Physiotherapy, al. Powstańców Wielkopolskich 72 ; 70 – 111 Szczecin; 91 466 16 73
Department's/Clinic's/Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-propedeutyki-i-fizykodiagnostyki-stomatologicznej
Language	Polish/English

¹ where applicable, replace into

Detailed information

Module objectives		Teaching objectives of the course is: 1. Acquiring knowledge of the structure of: cells, tissues, organs and systems with particular emphasis on the stomatognathic system; 2. Acquiring skills of recognition and marking of deciduous and permanent teeth
Prerequisite /essential requirements	Knowledge	Knowledge of normal anatomy in terms of topography and functions including histological structure of teeth and periodontium
	Skills	Manual skills necessary for drawing and modelling teeth
	Competences	Self-education habit Teamwork capability <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)	Method of verification of learning outcomes*
W01	knows and understands human body structures: cells, tissues and systems with particular regard to stomatognathic system	A.W1.	ET – test examination EPR – practical examination K – colloquium
W02	knows and understands body structure in terms of topography and functions	A.W3.	ET – test examination EPR – practical examination K – colloquium
W03	knows and understands role of nervous system for functions of certain organs	A.W4.	ET – test examination EPR – practical examination K – colloquium
W04	knows and understands functional importance of certain organs and systems in synthetic manner	A.W5.	ET – test examination EPR – practical examination K – colloquium
W05	knows and understands anatomic background of physical examination	A.W6.	ET – test examination EPR – practical examination K – colloquium
W06	knows and understands occlusion norms and deviations in different phases of ontogenesis	F.W1.	ET – test examination EPR – practical examination K – colloquium
W07	knows and understands the principles of preventive and therapeutic management in the masticatory system diseases at various stages of development;	F.W2.	ET – test examination EPR – practical examination K – colloquium
W08	knows and understands viral, bacterial and mycotic flora of oral cavity and importance thereof	F.W3.	ET – test examination EPR – practical examination K – colloquium
W09	knows and understands causes of complications of stomatognathic system diseases and the rules of their management	F.W12.	ET – test examination EPR – practical examination K – colloquium
U01	is able to formulate research proplems in dentistry	F.U12.	ET – test examination EPR – practical examination K – colloquium
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5.	ET – test examination EPR – practical examination K – colloquium
K02	is ready to propagate health-promoting behavior	K.6.	ET – test examination EPR – practical examination K – colloquium
K03	is ready to use reliable sources of information	K.7.	ET – test examination

			EPR – practical examination K – colloquium
K04	is ready to draw conclusions from own measurements or observations	K.8.	ET – test examination EPR – practical examination K – colloquium

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
W01	knows and understands human body structures: cells, tissues and systems with particular regard to stomatognathic system	X	X	X			
W02	knows and understands body structure in terms of topography and functions	X	X	X			
W03	knows and understands role of nervous system for functions of certain organs	X	X	X			
W04	knows and understands functional importance of certain organs and systems in synthetic manner	X	X	X			
W05	knows and understands anatomic background of physical examination	X	X	X			
W06	knows and understands occlusion norms and deviations in different phases of ontogenesis	X	X	X			
W07	knows and understands the principles of preventive and therapeutic management in the masticatory system diseases at various stages of development;	X	X	X			
W08	knows and understands viral, bacterial and mycotic flora of oral cavity and importance thereof	X	X	X			
W09	knows and understands causes of complications of stomatognathic system diseases and the rules of their management	X	X	X			
U01	is able to formulate research proplems in dentistry	X	X	X			
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs		X	X			
K02	is ready to propagate health-promoting behavior			X			
K03	is ready to use reliable sources of information		X	X			
K04	is ready to draw conclusions from own measurements or observations			X			

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes
Winter semester			
Lectures			
TK01	Introduction to the physiology of the masticatory organ.	1	A.W1.; A.W3.; A.W4.; A.W5.
TK02	Modern aspects of oral cavity prophylaxis.	1	A.W1.; A.W3.; A.W4.; A.W5.
TK03	Physiological norms of occlusion. Functional diagnosis of the motor system of the masticatory organ.	1	A.W1.; A.W3.; A.W4.; A.W5.
TK04	Saliva - its composition and functions. Biochemical processes in oral cavity.	1	A.W1.; A.W3.; A.W4.; A.W5.

TK05	Mixed dentition, determination of deciduous and permanent teeth, cases	1	A.W1.; A.W3.; A.W4.; A.W5.
TK06	Neuromuscular system of the masticatory organ. Mechanism of muscle contraction and its types. Neuromuscular transmission. Application of electromyography.	1	A.W1.; A.W3.; A.W4.; A.W5.
Seminars			
TK01	Respiratory process. Snoring. The process of sucking, chewing and swallowing. Articulation of speech.	3	A.W1.; A.W3.; A.W4.; A.W5.; K5., K7.
TK02	Periodontium, oral mucosa, role and tasks. Physiology and diagnostic possibilities using physical examination.	3	A.W1. ; A.W2. ; A.W1.; A.W3.; A.W4.; K5 . A.W5.
TK03	Deciduous teeth - anatomy, physiology, functions of different groups. Identification of deciduous teeth	3	A.W1. ; A.W2. ; A.W1.; A.W3.; A.W4.; K5 . A.W5.
TK04	Permanent teeth - anatomy, physiology, functions of particular groups. Identification of permanent teeth.	3	A.W1.; A.W2.; A.W3.; A.W4.; A.W5.; K5., K7.
TK05	Mixed dentition - Identification and differentiation of permanent and deciduous teeth.	1	A.W1. ; A.W2. ; A.W1.; A.W3.; A.W4.; K5 . A.W5.
Practical classes			
TK01	Drawing in five projections. Permanent teeth, incisors and canines. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK02	Modelling of permanent teeth: medial incisor. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK03	Drawing in five projections. Permanent premolar teeth. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK04	Modelling of permanent teeth; lateral incisor. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK05	Drawing in five projections. Permanent molar teeth . <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK06	Modelling of permanent teeth : canine. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK07	Drawing in four projections. Deciduous teeth <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK08	Modelling of permanent teeth : molar teeth. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK09	Modelling of permanent teeth: first premolar. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK10	Modelling of permanent teeth: second premolar. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK11	Saliva - its composition and functions. Biochemical processes in oral cavity. Testing of pH and buffer indices	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK12	Dental plaque, detection methods and hygiene indicators Practical part: determination of API in the oral cavity. <u>Practical - self-examination of saliva pH, buffer indexes</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK13	Temporomandibular joint. Anatomy, physiology, biomechanics. Practical part: palpation methods of joint examination.	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
Simulation			
E-learning			
TK01	Permanent teeth - anatomy, physiology, functions of	1	A.W1.; A.W3.; A.W4.;

	particular groups. Identification of permanent teeth.		A. W5.
TK02	Deciduous teeth - anatomy, physiology, functions of different groups. Identification and differentiation of permanent and deciduous teeth. Mixed dentition	1	A. W1.; A. W3.; A. W4.; A. W5.
Summer semester			
Lectures			
Seminar			
Practical classes			
simulation			
E-learning			

Booklist:
Obligatory literature:
1. Krocin A, Dargiewicz D., Grodner M.: Modelowanie w protetyce dentystycznej / Warszawa: Wydawnictwo Lekarskie PZWL, cop. 2010.
2. Kulas J.: Modelowanie koron zębów. Wydawnictwo Projekt. Warszawa 2004.
3. Śmiech Słomkowska G.: Wheeler Budowa zębów, fizjologia i okluzja. Elsevier Urban&Partner Wrocław 2014.
4. Olczak-Kowalczyk D., Szczepańska J., Kaczmarek U.: Współczesna stomatologia wieku rozwojowego. Med Tour Press 2017.
5. Lipski M., Kaczmarek U., Jańczuk Z.: Stomatologia zachowawcza z endodoneją zarys kliniczny. PZWL.2014 (IBUK LIBA PUM)
6. Mobile application: DENTAL LITE and REAL TOOTH
Supplementary literature:
1. Łasiński W. (1915-2010): Anatomia głowy dla stomatologów. Ed. 6 popr. i uzup. Warszawa Państwowy Zakład Wydawnictw Lekarskich, 1993. (pdf)
2. Stomatologia Zachowawcza. Współczesne metody opracowania i wypełniania ubytków próchnicowych. ANATOMIA ZĘBÓW STAŁYCH. Podręcznik do ćwiczeń fantomowych dla studentów stomatologii pod redakcją prof. zw. dr hab. Danuty Piątkowskiej. BESTOM Dentonet. 2010. E-book.
3. Tablice z Atlasu Anatomii Nettera (wersja pdf)

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	45
Time spent on preparation to seminars/ practical classes	30
Time spent on reading recommended literature	30
Time spent on writing report/making project	-
Time spent on preparing to colloquium/ entry test	15
Time spent on preparing to exam	30
Other	-
Student's workload in total	
ECTS credits for the course (in total)	
5	
Notes	

* 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...