



Pomorski Uniwersytet Medyczny w Szczecinie

SYLLABUS of the MODULE (SUBJECT) General information

Module title: PHYSIOLOGY OF THE STOMATOGNATHIC SYSTEM	
Module type	Obligatory/Facultative
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medical and Dentistry
Specialty	-
Level of study	long-cycle
Mode of study	full-time/part-time
Year of studies, semester	Year 1 / sem. 2 (summer)
ECTS credits (incl. semester breakdown)	4
Type/s of training (Number of hours)	Lectures-5h; seminars-10h; practical classes-30h
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 <ul style="list-style-type: none"> <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; zpropst@pum.edu.pl; 91 466 16 73
Name and contact data of the unit	Department of Propedeutics, Physical Diagnosis and Dental Physiotherapy
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

Detailed information

Module objectives		Teaching objectives of the subject 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 Communication skills

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 the structures of the human organism: cells, tissues, organs and systems with particular emphasis on the stomatognathic system	A.W1.	ET – test examination EPR – practical examination K – colloquium
W02	knows and understands the structure of human body in topographical and functional approach	A.W3.	ET – test examination EPR – practical examination K – colloquium
W03	knows and understands the role of the nervous system in functioning of individual organs	A.W4.	ET – test examination EPR – practical examination K – colloquium
W04	knows and understands the functional significance of particular organs and systems formed by them	A.W5.	ET – test examination EPR – practical examination K – colloquium
W05	knows and understands anatomical rationale 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
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 promote health-seeking behaviour	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	Other forms
W01	knows and understands the structures of the human organism: cells, tissues, organs and systems with particular emphasis on the stomatognathic system	X	X	X				
W02	knows and understands the development of organs and entire body with particular regard to masticatory system	X	X	X				
W03	knows and understands the structure of human body in topographical and functional approach	X	X	X				
W04	knows and understands the role of the nervous system in functioning of individual organs	X	X	X				
W05	knows and understands the functional significance of particular organs and systems formed by them	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				
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs		X	X				
K02	is ready to promote health-seeking behaviour			X				
K03	is ready to use reliable sources of information		X	X				
K04	is ready to formulate 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
Summer semester			
Lectures			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes
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	Permanent teeth - anatomy, physiology, functions of particular groups. Identification of permanent teeth.	1	A.W1.; A.W3.; A.W4.; A.W5.
TK05	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.
Seminars			
TK01	Respiratory process. Snoring. The process of sucking, chewing and swallowing. Articulation of speech. Neuromuscular system of the masticatory organ. Mechanism of muscle contraction and its types. Neuromuscular transmission. Application of electromyography.	3	A.W1.; A.W3.; A.W4.; A.W5.; K5., K7.
TK02	Saliva - its composition and functions. Biochemical processes in oral cavity.	3	A.W1.; A.W2.; A.W3.; A.W4.; A.W5.; K5., K7.
TK03	Deciduous and permanent teeth - anatomy, physiology, functions of different groups. Identification of permanent teeth.	3	A.W1.; A.W2.; A.W3.; A.W4.; A.W5.; K5., K7.
TK04	Mixed dentition - Identification and differentiation of permanent and deciduous teeth.	1	A.W1.; A.W2.; A.W3.; A.W4.; A.W5.; K5., K7.
Practical classes			
TK01	Drawing in five projections. Permanent teeth, incisor and canine. <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: incisors and canines. <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 premolar teeth. <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 molar teeth. <u>Practical skill test</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK07	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.
TK08	Dental plaque, detection methods and hygiene indicators Practical part: determination of API in the oral cavity. <u>Practical - self-testing of saliva pH, buffer indicators</u>	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
TK09	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.
TK10	Periodontium, oral mucosa, role and tasks. Physiology and diagnostic possibilities using physical examination.	3	A.W1.; A.W3.; A.W4.; A.W5.; A.W6.; K5.; K6.; K7.; K8.
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. Olczak-Kowalczyk D., Szczepańska J., Kaczmarek U.: Współczesna stomatologia wieku rozwojowego. Med Tour Press 2017.
4. Majewski S.W.: Gnatofizjologia stomatologiczna. Normy okluzji i funkcje układu stomatognatycznego. PZWL. 2016 (IBUK LIBA PUM)
5. Lipski M., Kaczmarek U., Jańczuk Z.: Stomatologia zachowawcza z endodoncją 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 Piątowskiej. 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	150
ECTS credits	3

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...