Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)
General Information

Module title	Conservative dentistry with Endodontics
Module type	Obligatory
Faculty PUM	Faculty of Medicine and Dentistry
Major	Dentistry
Level of study	Long-cycle (S2J)
Mode of study	Full-time studies
Year of studies, semester	Year V, semester IX and X
ECTS credits (incl. semester breakdown)	10 (semester IX-4, semester X-6)
Type/s of training	Semester IX: seminars - 11h / practical 75h Semester X: practical – 70h
Form of assessment*	− graded assessment: ☒descriptive ☒test ☒practical ☒oral ☐non-graded assessment − final examination: ☐descriptive ☒test ☒practical ☒oral
Head of the Department/ Clinic, Unit	dr hab. Alicja Nowicka, prof. PUM
Tutor responsible for the module	Dr n.med. Monika Szmidt-Kądys e-mail: monika.szmidt@pum.edu.pl
Name and contact details of the Department	Department of Conservative Dentistry and Endodontics. al. Powstańców Wlkp. 72, 70-111 Szczecin tel.: 91 466 16 48 e-mail: zstzach@pum.edu.pl
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-lekarsko-stomatologiczny/katedra-i-zaklad-stomatologii-zachowawczej-i-endodoncji
Language	English

* replace ☐ into ☒ where applicable

Detailed information

Module objectives		The aim of the course is to educate and prepare future dentists for diagnostics and personalized treatment of adult patients, in accordance with modern scientific knowledge. Particular importance is attached to expanding theoretical knowledge and consolidating practical skills in the field of prevention, diagnostics and treatment of diseases falling within the scope of dentistry and oral health as well as general health promotion. Graduate assimilates knowledge of the connections between general medicine and dentistry, the influence of general diseases and their treatment on dental procedures and obtains the ability to diagnose general diseases on the basis of symptoms detected in the oral cavity. Graduate should be able to perform necessary dental treatment before surgical procedures, chemotherapy and radiotherapy.
Prerequisite /essential requirements	Knowledge	Knowledge of anatomy and function of stomatognathic system. Knowledge of bases for disinfection, sterilization and aseptic procedures. Knowledge of the work environment, dental instruments and dental practice organization. Knowledge of the rules of ergonomics and work safety. Knowledge of the composition, properties and purpose of the basic groups of drugs and dental materials. Knowledge and the ability to diagnose, prevent and treat dental caries and non-carious lesions. Knowledge of etiology, diagnostics and treatment of pulp diseases and apical periodontitis.
	Skills	Working in dental practice knowing the rules of ergonomics and safety protocols. Student diagnoses, prepares and fills carious and non-carious cavities in patients. Conducts basic diagnostics and endodontic treatment procedures. Selects, prepares and applies correct dental medicaments and materials.
	Competences	Ability to self-education, ability to establish communication with a patient.

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 rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development	K_F.W03	EP, ET, EU, W, S
W02	knows symptoms, course and procedures for certain diseases of oral cavity, head and neck with regard to age groups	K_F.W05	EP, ET, EU, W, S
W03	knows principles of conduct of pulp diseases and mineralized tooth tissue and injury of tooth and facial skeleton	K_F.W07	EP, ET, EU, W, S
W04	knows principles of conduct of periapical diseases	K_F.W08	EP, ET, EU, W, S

W05	knows morphology of pulp cavity and rules of endodontic treatment and instruments	K_F.W09	EP, ET, EU, W, S
W06	knows causes and procedures for management with complications of stomatognathic system diseases	K_F.W14	EP, ET, EU, W, S
W07	knows therapy and methods of preventing and controlling pain, stress and anxiety	K_F.W17	EP, ET, EU, W, S
W08	knows rules of anesthesia in dental procedures and basic pharmacological agents	K_F.W19	EP, ET, EU, W, S
U01	interviews patient or his/her family	K_F.U01	EP, S, PS
U02	carries out physical examination of patient	K_F.U02	EP, S, PS
U03	provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis	K_F.U03	EP, S, PS
U04	provides patient or his/her relatives with bad news about health state	K_F.U04	EP, S, PS
U05	interprets results of ancillary tests	K_F.U06	EP, ET, EU, W, S
U06	finds indications as to performance of certain dental procedure	K_F.U07	EP, ET, EU, W, S
U07	knows prophylaxis of oral cavity diseases	K_F.U08	EP, ET, EU, W, S
U08	knows procedures applicable to diseases of stomatognathic system tissues, tooth and jaw bones	K_F.U09	EP, ET, EU, W, S
U09	treats acute and chronic tooth-related and non-tooth- related inflammation of oral cavity soft tissue, paradontium and jaw bones	K_F.U10	EP, S
U10	knows procedures applicable to cases of general and local complications during and after dental treatment	K_F.U11	EP, ET, EU, W, S
U11	keeps day-to-day patient's records,refers patient to general and special dental and medical examination or treatment	K_F.U13	EP, S, PS
U12	identifies research issues connected with his/her work	K_F.U14	S
U13	Presents selected medical issues in written or oral form relevantly to recipient standards	K_F.U15	EP, S
U14	explains pathological changes in cells, tissues and organs according to basic mechanism	K_F.U16	EP, ET, EU, W, S
U15	selects and performs certain tests to identify number of caries bacteria in oral cavity	K_F.U17	EP, ET, EU, W, S
U16	establishes treatment in diseases of stomatognathic system tissues	K_F.U18	EP, ET, EU, W, S
U17	uses certain drugs during and after dental procedure to relieve pain and stress	K_F.U19	EP, S
K01	shows habit of self-education and lifelong education	K_K01	S
K02	accepts need of standards of conduct and legislation regarding medical practice	K_K02	S

K03	shows respect to patient, social groups and cares for their goodwill and security	K_K05	S
K04	understands need for keeping professional secrecy and showing respect to patient's rights	K_K09	S

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.W03		X		X			
W02	K_F.W05_		X		X			
W03	K_F.W07		X		X			
W04	K_F.W08		X		X			
W05	K_F.W09		X		X			
W06	K_F.W14		X		X			
W07	K_F.W17		X		X			
W08	K_F.W19		X		X			
U01	K_F.U01				X			
U02	K_F.U02				X			
U03	K_F.U03				X			
U04	K_F.U04				X			
U05	K_F.U06		X		X			
U06	K_F.U07		X		X			
U07	K_F.U08		X		X			
U08	K_F.U09		X		X			
U09	K_F.U10				X			
U10	K_F.U11		X		X			
U11	K_F.U13				X			
U12	K_F.U14		X		X			
U13	K_F.U15		X		X			
U14	K_F.U16		X		X			
U15	K_F.U17		X		X			
U16	K_F.U18		X		X			
U17	K_F.U19				X			
K01	K_K01				X			
K02	K_K02				X			
K03	K_K05				X			
K04	K_K09				X			

Table presenting TEACHING PROGRAMME			
No. of a teaching program	**Teaching program**	**No. of hours**	**References to learning outcomes**
Winter semester			
	Seminars		
TK01	Individual caries risk assessment. Modern approach to dental caries prophylaxis and treatment.	1	W01, W02, W03, U07, U08, U15
TK02	Odontogenic infections - diagnostics and elimination. Indications for antibiotic therapy in endodontics.	1	W01, W02, U05, U08
TK03	Secondary caries. Indications for filling reparation and replacement.	1	W03, W07, W08
TK04	Difficult endodontic cases.	1	W03, W04, W05, W06, U05, U06, U10, U12
TK05	Examination of dental pulp status. Interpretation of diagnostic results.	1	W03, U05, U14
TK06	Diagnostics and treatment of tooth resorption.	1	W03, W05, U05, U06, U08, U14
TK07	Geriatric dentistry. Diagnostics, prevention and treatment of elderly patients.	1	W01, W02, U05, U07, U08, U13
TK08	Strategies of reconstruction of endodontically treated teeth.	1	W03, U06, U13, U16
TK09	Teeth discolorations. Bleaching of vital teeth.	1	W03, U06, U13, U16
TK10	Diagnostic and treatment of teeth after trauma in adults.	1	W03, W07, W08, U05, U06, U08, U13
TK11	Root canal obturation - updated view	1	W05, U06, U16
	Practical classes		
TK01	Practical application of theoretical knowledge acquired during clinical exercises in patients	75	W01, W02, W03, W04, W05, W06 W07, W08, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16 U17, K01, K02, K03, K04
Summer semester			
	Practical classes		
TK01	Practical application of theoretical knowledge acquired during clinical exercises in patients	70	W01, W02, W03, W04, W05, W06 W07, W08, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16 U17, K01, K02, K03, K04

Booklist
Obligatory literature:
1. Textbook of Endodontology, 3rd Edition. Bjørndal L., Kirkevang L-L., Whitworth J. Wiley-Blackwell 2018
2. Harty's Endodontics in Clinical Practice / Bun San Chong :Elsevier 2010
3. Sturdevant's art and science of operative dentistry /senior ed. Theodore M. Roberson; coeds. Harald O. Heymann, Edward J. Swift.Art and science of operative dentistry 6th ed.St. Louis Mosby Elsevier,2012
Supplementary literature:
1. Clinical Endodontics: A Textbook / Leif Tronstad Thieme; 3 Revised edition (August 20, 2008)
2. Cohen's pathways of the pulp /ed. Kenneth M. Hargreaves, Stephen Cohen; web ed. Louis H. Berman.Pathways of the pulp10th ed.St. Louis :Mosby Elsevier,cop. 2011

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	160
Time spent on preparation to seminars/ practical classes	
Time spent on reading recommended literature	
Time spent on writing report/making project	
Time spent on preparing to colloqium/ entry test	
Time spent on preparing to exam	
Other …..	
Student's workload in total	
ECTS credits for the subject (in total)	10
Remarks	

* Selected examples of methods of assessment:
EP – written examination
EU – oral examination
ET – test examination
EPR – practical examination
K – colloqium
R – report
S – practical skills assessment
RZĆ – 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…