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-5, semester X-5)
Type/s of training	Semester IX: seminars – 20h/ practical -60h Semester X: practical – 60h
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. Ryta Łagocka
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	F.W2	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	F.W4	EP, ET, EU, W, S
W03	knows principles of conduct of pulp diseases and mineralized tooth tissue and injury of tooth and facial skeleton	F.W5	EP, ET, EU, W, S
W04	knows principles of conduct of periapical diseases	F.W6	EP, ET, EU, W, S
W05	knows morphology of pulp cavity and rules of	F.W7	EP, ET, EU, W, S

	endodontic treatment and instruments		
W06	knows causes and procedures for management with complications of stomatognathic system diseases	F.W12	EP, ET, EU, W, S
W07	knows therapy and methods of preventing and controlling pain, stress and anxiety	F.W15	EP, ET, EU, W, S
W08	knows rules of anesthesia in dental procedures and basic pharmacological agents	F.W16	EP, ET, EU, W, S
W09	knows and understands prophylaxis of oral cavity diseses	F.W21	EP, ET, EU, W, S
W10	knows and understands principles of management of masticatory system tissues diseases, teeth and jaw bone trauma	F.W22	EP, ET, EU, W, S
W11	knows and understands the nature of dental care for a patient with a general disease as well as the principles of cooperation with a consultant physician	F.W23	EP, ET, EU, W, S
U01	interviews patient or his/her family	F.U1	EP, S
U02	carries out physical examination of patient	F.U2	EP, S
U03	provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis	F.U3	EP, S
U04	provides patient or his/her relatives with bad news about health state	F.U4	EP, S
U05	interprets results of ancillary tests	F.U6	EP, ET, EU, W, S
U06	is able to determine indications and contraindications to a specified dental procedure	F.U7	EP, ET, EU, W, S
U07	is able to treat tooth-derived and non-tooth-derived acute and chronic inflammation of soft tissue, periodontium and jaw bones	F.U8	EP, ET, EU, W, S
U08	is able to menage general and local complications during and after dental procedures	F.U9	EP, ET, EU, W, S
U09	is able to keep current patient records, refer patient to general and specialist dental and medical examination or treatment	F.U11	EP, S
U10	is able to formulate research proplems in dentistry	F.U12	EP, ET, EU, W, S
U11	is able to present selected medical problems in oral or written form relevantly to recipient standards	F.U13	EP, S, PS
U12	is able to assess risk of caries applying microbiolgical and salivary tests	F.U14	S
U13	is able to establish treatment for stomatognathic system tissues diseases	F.U15	EP, S
U14	is abe to use adequate anxiety and pain relieving	F.U16	EP, ET, EU, W, S

	agents during and after dental procedure		
U15	is able to descibe dental and panoramic x-rays images	F.U23	EP, ET, EU, W, S
K.01	is ready to establish and maintain deep and respectful contact with the patient as well as to show understanding for ideological and cultural differences	K.1	S
K.02	is ready to be guided by the patient wellbeing	K.2	S
K.03	is ready to respect physician-patient privilege and patient's rights	K.3	S
K.04	is ready to take activities towards patient on the basis of ethical principles with awareness of social conditions and disease restrictions	K.4	S
K.05	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5	S
K.06	is ready to propagate health-promoting behavior	K.6	S
K.07	is ready to use reliable sources of information	K.7	S
K.08	is ready to draw conclusions from own measurements or observations	K.8	S
K.09	is ready to implement the principles of professional fellowship and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment	K.9	S
K.10	is ready to formulate opinions on various aspects of professional activity	K.10	S
K.11	is ready to assume responsibility related to decisions taken as a part of professional activity, also in terms of own safety and the safety of others	K.11	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…**

1	F.W2		X		X			
2	F.W4		X		X			
3	F.W5		X		X			
4	F.W6		X		X			
5	F.W7		X		X			
6	F.W12		X		X			
7	F.W15		X		X			
8	F.W16		X		X			
9	F.W21		X		X			
10	F.W22		X		X			
11	F.W23		X		X			
12	F.U1				X			
13	F.U2				X			
14	F.U3				X			
15	F.U4				X			
16	F.U6		X		X			
17	F.U7		X		X			
18	F.U8		X		X			
19	F.U9				X			
20	F.U11				X			
21	F.U12				X			
22	F.U13				X			
23	F.U14				X			
24	F.U15		X		X			
25	F.U16		X		X			
26	F.U23		X		X			
27	K.1				X			
28	K.2				X			
29	K.3				X			
30	K.4				X			
31	K.5				X			
32	K.6				X			
33	K.7				X			
34	K.8				X			
35	K.9				X			
36	K.10				X			
37	K.11				X			

Table presenting TEACHING PROGRAMME			
No. of a teaching program	**Teaching program**	**No. of hours**	**References to learning outcomes**
Winter semester			
	Seminars		
TK01	Differentiated diagnostics of mineralized tissue disease (caries, non-caries lesion, hypersensitivity). Treatment methods: MID(indication and contraindication to non-invasive, micro-invasive and invasive treatment)	3	W2, W4, U6, U7, U15, U23
TK02	Differentiated diagnostics of pulp diseases. Vital pulp therapy- materials, methods, indications. Indications and contraindications to RCT.	3	W5, W7, W15, W16, U6, U7, U8, U15, U16
TK03	Differentiated diagnostics of periapical tissue diseases. Differentiated diagnostics of facial pain. RCT evaluation. Analysis of primary RCT failure. Indication and contraindication to Re-endo.	3	W6, W7, W12, W15, W16 , U6, U7, U8, U15, U16, U23
TK04	Teeth discolorations. Bleaching of vital teeth and non-vital teeth.	3	W2, W4, U7
TK05	Dental treatment in patients with general diseases (immune deficiency). Role of oral cavity sanitation. Dental treatment of pregnant. Preliminary treatment of patients before oncologic and bifosfonate therapy.	3	W2, W12, W21, W23, U16
TK06	Diagnostics and treatment of post-trauma damages of adult teeth. Contemporary management with elements of regenerative methods.	2	W22, U6, U7, U23
TK07	Adhesion – importance role in modern dentistry. Indication, limitation, failure cause. Indication and recovery of adhesive fillings .Indication and contraindication to adhesive endo-treated teeth reconstruction (builds-up).	3	W2, W5, U7
	Practical classes		
TK01	Practical application of theoretical knowledge acquired during clinical exercises in patients	60	W2, W4, W5, W6, W7, W12, W15, W16, W21, W22, W23, U1, U2, U3, U4, U6, U7, U8, U9, U11, U12, U13, U14, U15, U16, U23 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11
Summer semester			
	Practical classes		
TK01	Practical application of theoretical knowledge acquired during clinical exercises in patients	60	W2, W4, W5, W6, W7, W12, W15, W16, W21, W22, W23, U1, U2, U3, U4, U6, U7, U8, U9, U11, U12, U13, U14, U15, U16, U23 K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, K11

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

Standards of procedures required to obtain credit:
Conservative dentistry: Minimum of 8 fillings fully performed by the student **Endodontics:** Minimum of canals 5 (fully performed endodontic treatment by the student)

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	140
Time spent on preparation to seminars/ practical classes	30
Time spent on reading recommended literature	10
Time spent on writing report/making project	
Time spent on preparing to colloqium/ entry test	20
Time spent on preparing to exam	50
Other …..	
Student's workload in total	250
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…