



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 IV, semester VII and VIII
ECTS credits (incl. semester breakdown)	10(semester VII-5, semester VIII-5)
Type/s of training	Semester VII: lectures 15h/seminars 6h / practical 84h Semester VIII: lectures 12h/ seminars 3h/practical 87h
Form of assessment*	<p>– graded assessment:</p> <p><input checked="" type="checkbox"/>descriptive</p> <p><input checked="" type="checkbox"/>test</p> <p><input checked="" type="checkbox"/>practical</p> <p><input checked="" type="checkbox"/>oral</p> <p><input type="checkbox"/>non-graded assessment</p> <p>– final examination:</p> <p><input type="checkbox"/>descriptive</p> <p><input type="checkbox"/>test</p> <p><input type="checkbox"/>practical</p> <p><input type="checkbox"/>oral</p>
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		<p>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.</p> <p>Graduate should be able to perform necessary dental treatment before surgical procedures, chemotherapy and radiotherapy.</p>
Prerequisite /essential requirements	Knowledge	<p>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.</p>
	Skills	<p>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.</p>
	Competences	<p>Ability to self-education, ability to establish communication with a patient.</p>

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 principles of preventive and therapeutic management in the masticatory system diseases at various stages of development;	F.W2	TS, W,S
W02	knows and understands symptoms, course and treatment methods of specified diseases of oral cavity, head and neck with regard to age groups	F.W4	TS, W, S
W03	knows and understands principles of management in the case of pulp diseases and mineralized dental tissues as well as teeth and facial bones trauma	F.W5	TS, W, S
W04	knows and understands principles of periapical diseases management.	F.W6	TS, W, S

W05	knows and understands pulp cavities morphology as well as rules of endodontic treatment and used instruments	F.W7	TS, W, S
W06	knows and understands indications and contraindications to esthetic procedures	F.W.11	TS, W, S
W07	knows and understands therapeutic methods of pain control as well as anxiety and stress reduction	F.W.15	TS, W, S
W08	knows and understands principles of anesthesia in dental procedures and basic pharmacological agents	F.W.16	TS, W, S
W09	knows and understands prophylaxis of oral cavity diseases	F.W21	S
W10	knows and understands principles of management of masticatory system tissues diseases, teeth and jaw bone trauma	F.W.22	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.W.23	S
U01	is able to interview patient or his/her family	F.U1	S
U02	is able to carry out dental examination of patient	F.U2	TS, W, S
U03	is able to provide patient with explanation about nature of ailment, establish treatment confirmed by informed consent of the patient as well as establish prognosis	F.U3	TS, W, S
U04	is able to provide patient or his/her family with the information about unfavorable prognosis	F.U4	TS, W, S
U05	is able to sample and protect material for diagnostic tests, including cytology	F.U5	TS, W, S
U06	is able to interpret results of auxiliary diagnostics and consultations	F.U6	S
U07	is able to determine indications and contraindications to a specified dental procedure	F.U7	TS, W, S
U08	is able to treat tooth-derived and non-tooth-derived acute and chronic inflammation of soft tissue, periodontium and jaw bones	F.U8	S
U09	is able to manage general and local complications during and after dental procedures	F.U9	S
U10	is able to keep current patient records, refer patient to general and specialist dental and medical	F.U11	TS, W, S

	examination or treatment		
U11	is able to present selected medical problems in oral or written form relevantly to recipient standards	F.U13	TS, W, S
U12	is able to assess risk of caries applying microbiological and salivary tests	F.U14	TS, W, S
U13	is able to establish treatment for stomatognathic system tissues diseases	F.U15	S
U14	is able to use adequate anxiety and pain relieving agents during and after dental procedure	F.U16	S
K01	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
K02	is ready to be guided by the patient wellbeing	K.2.	S
K03	is ready to respect physician-patient privilege and patient's rights	K.3.	S
K04	is ready to take activities towards patient on the basis of ethical principles with awareness of social conditions and disease restrictions	K.4.	S
K05	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5.	S
K06	is ready to propagate health-promoting behavior	K.6.	S
K07	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

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.W3.	X	X		X			
2	F.W5.	X	X		X			
3	F.W7.	X	X		X			
4	F.W8.	X	X		X			

5	F.W9.	X	X	X			
6	F.W14	X	X	X			
7	F.W17	X	X	X			
8	F.W19	X	X	X			
9	F.U1			X			
10	F.U2			X			
11	F.U3			X			
12	F.U4			X			
13	F.U6	X	X	X			
14	F.U7	X	X	X			
15	F.U8	X	X	X			
16	F.U9	X	X	X			
17	F.U10			X			
18	F.U11	X	X	X			
19	F.U13			X			
20	F.U15			X			
21	F.U16	X	X	X			
22	F.U17	X	X	X			
23	F.U18	X	X	X			
24	F.U19			X			
25	K.1.			X			
26	K.2.			X			
27	K.5.			X			
28	K.9.			X			

Table presenting TEACHING PROGRAMME			
No. of a teaching program	Teaching program	No. of hours	References to learning outcomes
Winter semester			
Lectures			
TK01	Organization and work in modern dental practice according to ergonomics.	1	U10
TK02	Minimally-invasive endodontics. Treatment of reversible pulpitis.	2	W01, W02, W03, W05, W07, W08, U06, U08, U14
TK03	Etiology and diagnostics of periapical tissue diseases.	1	W01, W04, W05, U05, U13
TK04	Methods and importance of working length establishment.	2	W05, U08
TK05	Irrigation of root canal system.	2	W05, U08
TK06	Modern root canal preparation techniques	2	W05, U08
TK07	Modern root canal obturation techniques.	2	W05, U08
TK08	Root canal system – retreatment.	1	W04, W05, W06, U08, U10, U14

TK09	Strategies of reconstruction of endodontically treated teeth	1	W03,U06,U08,U15
TK10	Diagnostics and treatment of tooth resorption	1	W05,U05,U06,U08,U14
Seminars			
TK01	Establishment of prophylactic and treatment plan according to individual caries risk assessment.	1	W01, W02, U05, U07,U14
TK02	Etiology and diagnostic of dental pulp diseases.	1	W01, W02, W03,U05, U13
TK03	Secondary caries. Indications for filling reparation and replacement.	1	W03, W06, U05,U06,U08,U10,U11,U13
TK04	Morphology of pulp chamber according to endodontic treatment. Primary and secondary endodontic access.	1	W02, W05
TK05	Anatomical direct reconstruction in posterior area of dentition . Clinical procedures in anatomical reconstruction of mineralized tissues.	1	W03, U06, U08,U15
TK06	Importance of canal irrigation according to root canal system disinfection.	1	W05,U08
Practical classes			
TK01	Practical application of theoretical knowledge acquired during clinical exercises in patients	84	W01, W02, W03, W04, W05, W06 W07, W08, U01, U02, U03, U04, U05, U06, U07, U08, U09, U10, U11, U12, U13, U14, U15, U16 K01, K02, K03, K04
Summer semester			
Lectures			
TK01	Emergency in endodontics.	1	W.1, W.4, W.5, U.5, U.6, U.8,U14
TK02	Complications in endodontic treatment.	1,5	W.4, W.5, W.6, U.5, U10, U14
TK03	Endo-Perio syndrome.	1	W.1, W.4, W.5, U.5, U.6, U.8,U14
TK04	Odontogenic infections – detection, clinical aspects and elimination.	1	W.4, W.6, U.5, U.6, U.7, U.8, U10,U14
TK05	Endodontic surgery in RCT.	1	W.4, W.5, W.6, W.7, W.8, U06, U08, U10, U14
TK06	Classification and treatment of teeth trauma in adults.	1	W.3, W.5, W.7, W.8, U.5, U.6, U.8, U14
TK07	Vertical root fracture in adults.	1	W.3, W.5, U.5, U.6, U.8, U14
TK08	Dental treatment of patients suffering from systematic diseases.	2	W.1, W.2, W.4, U.5, U.6, U.8, U14
TK09	Iatrogenic in dentistry, mistakes and complications in dental treatment.	1	W.5, W.6
TK10	Endodontic Regeneration	1,5	W.4, W.5, U.6, U.8
Seminars			
TK01	Teeth discolorations. Bleaching of vital and non-vital teeth.	1	W04, U05

TK02	Diagnostics, prevention, prophylaxis and treatment plan according to patients with abrasion and erosion lesions. Treatment of non-carious lesions.	1	W.3, U.6, U.8, U14
TK03	Odontogenic infections. Antibiotic therapy in endodontics.	1	W.3, U.6, U.8, U10, U15
Clinical Classes			
TK01	Practical application of theoretical knowledge acquired during clinical exercises in patients	84	W.1, W.2, W.3, W.4, W.5, W.6, W.7, W.8 U.1, U.2, U.3, U.4, U.5, U.6, U.7, U.8, U.9, U10, U11, U12, U13, U14, U15, U16 K.1., K.2, K.3,K.4

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: 12 fillings
Endodontics: 3 fully completed endodontic treatment

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	207
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 colloquium/ 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 – 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...