



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)	11(semester VII-5, semester VIII-6)
Type/s of training	Semester VII: lectures 15h/seminars 6h / practical 84h Semester VIII: lectures 12h/ seminars 6h/practical 84h
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>
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Tutor responsible for the module	Dr n.med. Monika Szmidt-Kądys e-mail: monika.szmidt@pum.edu.pl
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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 rules of prophylactic-therapeutic procedures in diseases of stomatognathic system in different phases of development	K_F.W03	TS, 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	TS, W, S
W03	knows principles of conduct of pulp diseases and mineralized tooth tissue and injury of tooth and facial skeleton	K_F.W07	TS, W, S
W04	knows principles of conduct of periapical diseases	K_F.W08	TS, W, S
W05	knows morphology of pulp cavity and rules of endodontic treatment and instruments	K_F.W09	TS, W, S

W06	knows causes and procedures for management with complications of stomatognathic system diseases	K_F.W14	TS, W, S
W07	knows therapy and methods of preventing and controlling pain, stress and anxiety	K_F.W17	TS, W, S
W08	knows rules of anesthesia in dental procedures and basic pharmacological agents	K_F.W19	TS, W, S
U01	interviews patient or his/her family	K_F.U01	S
U02	carries out physical examination of patient	K_F.U02	S
U03	provides patient with explanation about nature of ailment, prescribes treatment confirmed by patient's free consent and prognosis	K_F.U03	S
U04	provides patient or his/her relatives with bad news about health state	K_F.U04	S
U05	interprets results of ancillary tests	K_F.U06	TS, W, S
U06	finds indications as to performance of certain dental procedure	K_F.U07	TS, W, S
U07	knows prophylaxis of oral cavity diseases	K_F.U08	TS, W, S
U08	knows procedures applicable to diseases of stomatognathic system tissues, tooth and jaw bones	K_F.U09	TS, 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	S
U10	knows procedures applicable to cases of general and local complications during and after dental treatment	K_F.U11	TS, 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	S
U12	Presents selected medical issues in written or oral form relevantly to recipient standards	K_F.U15	S
U13	explains pathological changes in cells, tissues and organs according to basic mechanism	K_F.U16	TS, W, S
U14	selects and performs certain tests to identify number of caries bacteria in oral cavity	K_F.U17	TS, W, S
U15	establishes treatment in diseases of stomatognathic system tissues	K_F.U18	TS, W, S
U16	uses certain drugs during and after dental procedure to relieve pain and stress	K_F.U19	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...
1	K_F.W03	X	X		X			
2	K_F.W05	X	X		X			
3	K_F.W07	X	X		X			
4	K_F.W08	X	X		X			
5	K_F.W09	X	X		X			
6	K_F.W14	X	X		X			
7	K_F.W17	X	X		X			
8	K_F.W19	X	X		X			
9	K_F.U01				X			
10	K_F.U02				X			
11	K_F.U03				X			
12	K_F.U04				X			
13	K_F.U06	X	X		X			
14	K_F.U07	X	X		X			
15	K_F.U08	X	X		X			
16	K_F.U09	X	X		X			
17	K_F.U10				X			
18	K_F.U11	X	X		X			
19	K_F.U13				X			
20	K_F.U15				X			
21	K_F.U16	X	X		X			
22	K_F.U17	X	X		X			
23	K_F.U18	X	X		X			
24	K_F.U19				X			
25	K_K01				X			
26	K_K02				X			
27	K_K05				X			
28	K_K09				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	U11
TK02	Minimally-invasive endodontics. Treatment of reversible pulpitis.	2	W01, W02, W03, W05, W07, W08, U06, U08, U15
TK03	Etiology and diagnostics of periapical tissue diseases.	2	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	1	W05,U08
TK07	Modern root canal obturation techniques.	1	W05,U08
TK08	Root canal system – retreatment.	1,5	W04,W05,W06,U08,U10,U15
TK09	Strategies of reconstruction of endodontically treated teeth	1,5	W03,U06,U08,U15
TK10	Diagnostics and treatment of tooth resorption	1	W05,U05,U06,U08,U15
Seminars			
TK01	Establishment of prophylactic and treatment plan according to individual caries risk assessment.	1	W01, W02, U05, U07,U14,U15
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,U14,U15
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	W01, W04, W05, U05, U06, U08,U15
TK02	Complications in endodontic treatment.	1,5	W04, W05, W06, U05, U10, U15
TK03	Endo-Perio syndrome.	1	W01, W04, W05, U05, U06, U08,U15
TK04	Odontogenic infections – detection, clinical aspects and elimination.	1	W04, W06, U05, U06, U07, U08, U10,U15
TK05	Endodontic surgery in RCT.	1	W04, W05, W06, W07, W08, U06, U08, U10, U15

TK06	Classification and treatment of teeth trauma in adults.	1	W03, W05, W07, W08, U05, U06, U08, U15
TK07	Vertical root fracture in adults.	1	W03, W05, U05, U06, U08, U15
TK08	Dental treatment of patients suffering from systematic diseases.	2	W01, W02, W04, U05, U06, U08, U15
TK09	Iatrogenic in dentistry, mistakes and complications in dental treatment.	1	W05, W06
TK10	Endodontic Regeneration	1,5	W04, W05, U06, U08
Seminars			
TK01	X-Ray aspect in endodontics.	1	W04, U05
TK02	Anatomical reconstruction in frontal area of dentition. Indications, procedures and materials.	1	W03, U06, U08, U15
TK03	Teeth discolorations. Bleaching of non-vital teeth.	1	W03, U06, U08, U10, U15
TK04	Diagnostics, prevention, prophylaxis and treatment plan according to patients with abrasion and erosion lesions. Treatment of non-carious lesions.	1	W01, W02, W03, W07, W08, U06, U07, U08, U15
TK05	Odontogenic infections. Antibiotic therapy in endodontics.	1	W04, W06, U05, U06, U07, U08, U10, U15
TK06	Teeth discolorations. Bleaching of vital teeth	1	W03, U06, U08, U15
Clinical 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

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 pulp 10th 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	210
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)	11
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...