Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT)
General Information

Module title: PRECLINICAL ENDODONTICS	
Module type	Obligatory/Facultative (wybrać)
Faculty PMU	Faculty of Dentistry
Major	Dentistry
Level of study	long-cycle (S2J)
Mode of study	full-time studies
Year of studies, semester	Year III, semester 5
ECTS credits (incl. semester breakdown)	4
Type/s of training	lectures (e-learning) 6h/ seminars 4h/ 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	Prof. dr hab. n. med. Mariusz Lipski
Tutor responsible for the module	lek. dent. Agnieszka Chamarczuk agieszka.chamarczuk@pum.edu.pl 91-466-1630
Department's/ Clinic's/ Unit's website	link
Language	English

* replace ☐ into ☒ where applicable

Detailed information

Module objectives		Goal of preclinical endodontics is teaching students how to diagnose and treat pulp and periapical diseases using newest methods and using modern tools and equipment.
Prerequisite /essential requirements	Knowledge	The student knows morphology of the teeth, root canals and materials using in endodontic treatment
	Skills	Work in accordance with the principles of ergonomics.
	Competences	Habit of self-education; co-operate with team members.

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 viral, bacterial and mycotic flora of oral cavity and importance thereof	F.W3.	practical classes (oral, written answer), final exam (written answer)
W02	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.	practical classes (oral, written answer), final exam (written answer)
W03	knows and understands principles of periapical diseases management	F.W6.	practical classes (oral, written answer), final exam (written answer)
W04	knows and understands pulp cavities morphology as well as rules of endodontic treatment and used instruments	F.W7.	practical classes (oral, written answer), final exam (written answer)
W05	knows and understands causes of complications of stomatognathic system diseases and the rules of their menagement	F.W12.	practical classes (oral, written answer), final exam (written answer)
U01	is able to formulate research proplems in dentistry	F.U12.	practical classes (oral, written answer), final exam (written answer)
U02	is able to provide endodontic treatment and restore missing mineralized tissue of phantom tooth	C.U9.	practical classes (oral, written answer), final exam (written answer)
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5.	practical classes (oral, written answer), final exam (written answer)
K02	is ready to propagate health-promoting behavior	K.6.	practical classes (oral, written answer), final exam (written answer)
K03	is ready to use reliable sources of information	K.7.	practical classes (oral, written answer), final exam (written answer)
K04	is ready to assume responsibility related to decisions taken as a part of professional	K.11	practical classes (oral, written answer), final exam (written answer)

	activity, also in terms of own safety and the safety of others		

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	knows and understands viral, bacterial and mycotic flora of oral cavity and importance thereof		X			X		
W02	knows and understands principles of management in the case of pulp diseases and mineralized dental tissues as well as teeth and facial bones trauma		X			X		
W03	knows and understands principles of periapical diseases management		X			X		
W04	knows and understands pulp cavities morphology as well as rules of endodontic treatment and used instruments		X			X	X	
W05	knows and understands causes of complications of stomatognathic system diseases and the rules of their menagement		X			X		
U01	is able to formulate research proplems in dentistry		X			X		
U02	is able to provide endodontic treatment and restore missing mineralized tissue of phantom tooth					X		
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs					X		
K02	is ready to propagate health-promoting behavior					X		
K03	is ready to use reliable sources of information					X		
K04	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					X		

Table presenting TEACHING PROGRAMME

No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Winter semester			
E-learning			
TK01	Anatomy and morphology of mandibular teeth. Creating primary and secondary access in mandibular teeth. Bioceramic materials in endodontic. Length determination of root canals.	6	W04
Seminars			

TK01	Generaly rules of endodontic treatment. Anatomy and morphology of maxillary teeth. Creating primary and secondary access in maxillary teeth.	4	W01, W02, W03, W04, W05 U01
Simulations			
TK01	Getting acquainted with the regulations of classes. Health and safety at work. I group: Biological pulp treatment. Deep caries, indirect and direct pulp capping –indications, contraindications, treatment technique, materials. II group: 4 handed dentistry, instruments transfer technique, rubber dam	4	W01,W02, W04 U02 K01, K02, K03, K04
TK02	I group: 4 handed dentistry, instruments transfer technique, rubber dam II group: Biological pulp treatment. Deep caries, indirect and direct pulp capping –indications, contraindications, treatment technique, materials.	4	W01,W02, W04 U02 K01, K02, K03, K04
TK03	Teeth morphology and endodontic access cavity preparation Endodontic hand instruments (files, barber broaches, reamers, probes, burs)	4	W01,W02, W04 U02 K01, K02, K03, K04
TK04	Root canal irrigation, proper irrigation technique, techniques of activation (MDA). Canal technique preparation: step-back technique	4	W01,W02, W04 U02 K01, K02, K03, K04
TK05	Canal length determination-radiographic and electronic methods. Canal technique preparation: traditional technique	4	W01,W02, W04 U02 K01, K02, K03, K04
TK06	Canal techniques preparation: traditional technique, step-back technique. continuation of classes	4	W01,W02, W04 U02 K01, K02, K03, K04
TK07	Intracanal temporary disinfection materials: application methods and materials	4	W01,W03, W04 U02 K01, K02, K03, K04
TK08	Canal filling materials, lateral condensation technique. Evaluation of ideal root canal filling (underfilling, overfilling) and it's quality (homogeneity, tightness) on x-ray picture	4	W01,W03, W04 U02 K01, K02, K03, K04
TK09	Reversibiles and irreversibiles pulpitis – diagnosis and treamtment	4	W04, W05 U01, U02 K01, K02, K03, K04
TK10	Rotary instruments	4	W04, W05 U01, U02 K01, K02, K03, K04
TK11	Division of periapical diseases	4	W03, W05 U02 K01, K02, K03, K04
TK12	Diagnosis of periapical diseases	4	W03, W05 U02 K01, K02, K03, K04
TK13	Periapical and pulp diseases -repetition. Finishing all procedures.	4	W01, W02, W03, W04 U02 K01, K02, K03, K04
TK14	Periapical and pulp diseases -repetition. Finishing all procedures.	4	W01, W02, W03, W04 U02 K01, K02, K03, K04
TK15	Periapical and pulp diseases -repetition. Finishing all procedures.	4	W01, W02, W03, W04 U02 K01, K02, K03, K04

Booklist	
Obligatory literature:	
1. *Sturdevants Art&Science of Operative Dentistry*, 7th edition, Roberson T.M., Heymann H.O., Swift E.J., Mosby, St.Louis 2018	
2. *Essentials of Dental Caries*, Fourth Edition Edwina Kidd and Ole Fejerskov, Oxford University Press, Oxford 2016	
3. *Clinical endodontics: a teztbook*. Tronstadt L., 3rd edition, Georg Thieme Verlag, 2009	
Supplementary literature:	
1. *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	
2. *Textbook of Endodontology*, 3rd Edition. Bjørndal L., Kirkevang L-L., Whitworth J. Wiley-Blackwell 2018	
3. Harty's *Endodontics in Clinical Practice* / Bun San Chong: Elsevier 2010	
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	70
Time spent on preparation to seminars/ practical classess	15
Time spent on reading recommended literature	15
Time spent on writing report/making project	-
Time spent on preparing to colloqium/ entry test	10
Time spent on preparing to exam	10
Other …..	
Student's workload in total	**120**
ECTS credits for the subject (in total)	**4**
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…