



# 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 Medicine and 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)	3,5
Type/s of training	seminars 8 h/ practical 52h (Simulations)
Form of assessment*	<input type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input type="checkbox"/> test</li> <li><input type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul> <input type="checkbox"/> non-graded assessment <input checked="" type="checkbox"/> final examination <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input checked="" type="checkbox"/> test</li> <li><input checked="" type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul>
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Mariusz Lipski
Tutor responsible for the module	Dr n. med. Ewa Marek fantom@pum.edu.pl 91-466-1630
Department's/ Clinic's/ Unit's website	<a href="https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/katedra-i-zaklad-stomatologii-zachowawczej-przedkliniknej-i-endodoncji-przedkliniknej">https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/katedra-i-zaklad-stomatologii-zachowawczej-przedkliniknej-i-endodoncji-przedkliniknej</a>
Language	English

\* replace ☐ into ☒ where applicable

## Detailed information

<b>Module objectives</b>		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	Seminary (oral answer), practical classes (oral answer, test), final exam (test)
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	Seminary (oral answer), practical classes (oral answer, test), final exam (test)
W03	knows and understands principles of periapical diseases management	F.W6	Seminary (oral answer), practical classes (oral answer, test), final exam (test)
W04	knows and understands pulp cavities morphology as well as rules of endodontic treatment and used instruments	F.W7	Seminary (oral answer), practical classes (oral answer, test), final exam (test)
W05	knows and understands causes of complications of stomatognathic system diseases and the rules of their management	F.W12	Seminary (oral answer)
U01	is able to formulate research problems in dentistry	F.U12	Seminary (oral answer)
U02	is able to provide endodontic treatment and restore missing mineralized tissue of phantom tooth	C.U9	practical classes (oral answer, test), final exam (test)
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5	practical classes
K02	is ready to propagate health-promoting behavior	K.6	practical classes
K03	is ready to use reliable sources of information	K.7	practical classes
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	K.11	practical classes

Table presenting <b>LEARNING OUTCOMES</b> 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.	knows and understands viral, bacterial and mycotic flora of oral cavity and importance thereof		X			X		
2.	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		
3.	knows and understands principles of periapical diseases management		X			X		
4.	knows and understands pulp cavities morphology as well as rules of endodontic treatment and used instruments		X			X		
5.	knows and understands causes of complications of stomatognathic system diseases and the rules of their management		X					
6.	is able to formulate research problems in dentistry		X					
7.	is able to provide endodontic treatment and restore missing mineralized tissue of phantom tooth					X		
8.	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs					X		
9.	is ready to propagate health-promoting behavior					X		
10.	is ready to use reliable sources of information					X		
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					X		

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
<b>Summer semester</b>			
<b>Seminars</b>			
TK01	General rules of endodontic treatment. Teeth morphology and access cavity preparation	2	W01-W05, U01
TK02	Teeth morphology and access cavity preparation	2	W01-W05, U01
TK03	Canal length determination	2	W01-W04
TK04	Root canal irrigation, proper irrigation techniques	2	W01-W04
<b>Simulations</b>			
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-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-K04
TK03	Teeth morphology and access cavity preparation Endodontic hand instruments (files, barber broaches, reamers, burs)	4	W01, W02, W04 U02 K01-K04
TK04	Root canal irrigation, proper irrigation techniques. Canal technique preparation: step-back technique	4	W01, W02, W04 U02 K01-K04
TK05	Canal length determination-radiographic and electronic methods. Canal technique preparation: step-back technique	4	W01, W02, W04 U02 K01-K04
TK06	Canal technique preparation: traditional technique, step-back.	4	W01, W02, W04 U02 K01-K04
TK07	Intracanal temporary disinfection materials: application methods and materials	4	W01, W03, W04 U02 K01-K04
TK08	Canal filling materials, obturation methods: lateral condensation technique, evaluation of ideal root canal filling(underfilling, overfilling) and its quality (homogeneity, tightness) on x-ray picture	4	W01, W03, W04 U02 K01-K04
TK09	Canal filling materials, obturation methods: single core technique, evaluation of ideal root canal filling(underfilling, overfilling) and its quality (homogeneity, tightness) on x-ray picture	4	W01, W03, W04 U02 K01-K04

TK10	Rotary instruments	4	W01, W03, W04 U02 K01-K04
TK11	Periapical diseases division	4	W01, W03, W04 U02 K01-K04
TK012	Periapical diseases diagnosis	4	W01, W03, W04 U02; K01-K04
TK13	Finishing all procedures	4	W01 - W04 U02; K01-K04

**Booklist**

Obligatory literature:

1. Valachi B.: Practice Dentistry Pain-Free: Evidence-based Ergonomic Strategies to Prevent Pain and Extend Your Career

2. Ladley Finkbeiner B. : Four-Handed Dentistry: A Handbook of Clinical Application and Ergonomic Concepts

3. Murphy D.C.: Ergonomics and Dental Care Worker

**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	60
Time spent on preparation to seminars/ practical classess	15
Time spent on reading recommended literature	15
Time spent on writing report/making project	0
Time spent on preparing to colloquium/ entry test	50
Time spent on preparing to exam	50
Other .....	
Student's workload in total	190
<b>ECTS credits for the subject (in total)</b>	3,5
<b>Remarks</b>	

\* 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...