



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT) General Information

Module title: PRECLINICAL CONSERVATIVE DENTISTRY	
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 2 , semester IV
ECTS credits (incl. semester breakdown)	5
Type/s of training	Lecture 3h/seminars 4h/ practical classes 64h
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 <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> final examination               <ul style="list-style-type: none"> <li><input checked="" 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> </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="#">link</a>
Language	English

\* replace  into  where applicable

**Detailed information**

<b>Module objectives</b>		Goal of preclinical conservative dentistry is teaching students how to diagnose and treat dental caries and how to restore destroyed crown's tissues due to caries and other diseases
Prerequisite /essential requirements	Knowledge	The student knows anatomy and histology of the teeth, the materials and the instruments used in conservative dentistry
	Skills	Work in accordance with the principles of ergonomics
	Competences	Habit of self-education; co-operate with team member

<b>Description of the learning outcomes for the subject /module</b>			
<b>No. of learning outcome</b>	<b>Student, who has passed the (subject) knows /is able to /can:</b>	<b>SYMBOL (referring the standards)</b>	<b>Method of verification of learning outcomes*</b>
W01	knows and understands the surface properties of hard tissues of a tooth and dental biomaterials	C.W33.	practical classes (oral, written answer), final exam (written answer)
W02	knows and understands the phenomenon of adhesion and the adhesive procedure of preparing the enamel surface, dentine and dental biomaterials	C.W34.	practical classes (oral, written answer), final exam (written answer)
W03	knows and understands the basic clinical procedures of hard tissue reconstruction of teeth and of endodontic treatment	C.W36	practical classes (oral, written answer), final exam (written answer)
W04	knows and understands the role of microbiome of oral cavity	F.W3.	practical classes (oral, written answer), final exam (written answer)
W05	knows and understands symptoms, course and treatment methods of specified diseases of oral cavity, head and neck with regard to age groups	F.W4.	practical classes (oral, written answer), final exam (written answer)
W06	knows and understands the principles of actions in case of diseases of the pulp and mineralized teeth tissues	F.W5.	practical classes (oral, written answer), final exam (written answer)
W07	knows and understands the benefits and limitations of dental treatment in enlargement	F.W8.	practical classes (oral, written answer), final exam (written answer)
W08	knows and understands the principles of applying instruments, materials and pharmacological agents in dental treatment	F.W9.	practical classes (oral, written answer), final exam (written answer)
W09	knows and understands indications and counterindications of performing procedures in the scope of reconstructive dentistry	F.W15.	practical classes (oral, written answer), final exam (written answer)
W010	knows and understands the differential diagnostics of pain of the oral cavity and face	F.W17.	practical classes (oral, written answer), final exam (written answer)

W011	knows and understands the principles of applying pharmacological agents in the prophylaxis and treatment	F.W18.	practical classes (oral, written answer), final exam (written answer)
U01	is able to elaborate carious lesion and recreate the missing mineralized tissues in phantom tooth	C.U11.	practical classes (oral, written answer), final exam (written answer)
U02	is able to carry out endodontic treatment in dental simulation conditions	C.U12.	practical classes (oral, written answer), final exam (written answer)
U03	is able to apply adhesive techniques	C.U13.	practical classes (oral, written answer), final exam (written answer)
U04	is able to select reconstructive, prosthetic and binding materials according to properties of materials and clinical conditions	C.U14.	practical classes (oral, written answer), final exam (written answer)
U05	is able to collect medical and dental history about the patient or their family while maintaining the principles of professional communication	F.U1.	practical classes (oral, written answer), final exam (written answer)
U06	is able to formulate research problems in dentistry	F.U15.	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 activity, also in terms of own safety and the safety of others	K.11.	practical classes (oral, written answer), final exam (written answer)

Table presenting LEARNING OUTCOMES in relation to the form of classes

	Learning outcomes	Type of training
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No. of learning outcome		Lecture	Seminar	Practical classes	Clinical classes	Simulations	E-learning	Other...
W01	knows and understands the surface properties of hard tissues of a tooth and dental biomaterials		X			X		
W02	knows and understands the phenomenon of adhesion and the adhesive procedure of preparing the enamel surface, dentine and dental biomaterials	X	X			X		
W03	knows and understands the basic clinical procedures of hard tissue reconstruction of teeth and of endodontic treatment	X	X			X		
W04	knows and understands the role of microbiome of oral cavity	X	X			X		
W05	knows and understands symptoms, course and treatment methods of specified diseases of oral cavity, head and neck with regard to age groups		X			X		
W06	knows and understands the principles of actions in case of diseases of the pulp and mineralized teeth tissues	X	X			X		
W07	knows and understands the benefits and limitations of dental treatment in enlargement					X		
W08	knows and understands the principles of applying instruments, materials and pharmacological agents in dental treatment	X				X		
W09	knows and understands indications and counterindications of performing procedures in the scope of reconstructive dentistry	X				X		
W010	knows and understands the differential diagnostics of pain of the oral cavity and face	X	X			X		
W011	knows and understands the principles of applying pharmacological agents in the prophylaxis and treatment	X				X		
U01	is able to elaborate carious lesion and recreate the missing mineralized tissues in phantom tooth					X		
U02	is able to carry out endodontic treatment in dental simulation conditions					X		
U03	is able to apply adhesive techniques					X		
U04	is able to select reconstructive, prosthetic and binding materials according to properties of materials and clinical conditions					X		
U05	is able to collect medical and dental history about the patient or their family while maintaining the principles of professional communication					X		
U06	is able to formulate research problems in dentistry					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		

<b>Table presenting TEACHING PROGRAMME</b>			
<b>No. of a teaching programme</b>	<b>Teaching programme</b>	<b>No. of hours</b>	<b>References to learning outcomes</b>
<b>Summer semester</b>			
<b>Lectures</b>			
TK01	Basic information about vital pulp therapy- part I. Indirect pulp capping. Materials for indirect pulp capping.	1	W02, W03, W04, W06, W08, W09, W010, W011
TK02	Basic information about vital pulp therapy- part II. Indirect pulp capping.	1	W02, W03, W04, W06, W08, W09, W010, W011
TK03	Basic information about vital pulp therapy – part II. Direct pulp capping.	1	W02, W03, W04, W06, W08, W09, W010, W011
<b>Seminars</b>			
TK01	Etiology of caries	1	W01, W02, W03, W04, W05, W06, W010
TK02	Clinical course of dental caries	1	W01, W02, W03, W04, W05, W06, W010
TK03	Classification of dental caries	1	W01, W02, W03, W04, W05, W06, W010
TK04	Methods of caries diagnosis	1	W01, W02, W03, W04, W05, W06, W010
<b>Simulation</b>			
TK01	Etiology of caries. Clinical course and classification of dental caries. Diagnosis of dental caries. Ergonomics in dentistry (correct position of the dentist). Dental instruments. Rubber dam placement.	4	W01, W02, W04, W05, W06, W08, W09, W010, W011

			U01, U02, U03, U04, U05 K01, K02, K03, K04
TK02	G.V. Black and Mount-Hume classification of caries. Treatment initial and superficial carries. PRR1 procedure on occlusal surface in molar tooth using pit and fissure sealant/flow composite. Rubber dam placement. Exercises using the Simodont – preparation the cavities in virtual blocks (rectangle, circle and cross shaped blocks)	4	W01, W02, W04, W05, W06, W08, W09, W10, W11 U01, U02, U03, U04 K01, K02, K03, K04
TK03	Ist class G.V.Black –cavity design. Differences in cavity preparation for composite. Basic knowledge of composite and bonding agents. Rules of finishing composite restorations. Ist class cavity preparation on caries media in occlusal surface in molar. Composite restoration. Rubber dam placement. Exercises using the Simodont – I class cavity preparation	4	W01, W02, W05, W06, W08, W09 U01, U02, U03, U04 K01, K02, K03, K04
TK04	IIIrd class G.V. Black-cavity design. Basic knowledge in color and shade analysis. Cavity preparation of caries media on approximal surface without removal labial wall on canine/ incisor. Composite restoration. Finishing and polishing composite restoration. Simodont – III class cavity preparation	4	W01, W02, W05, W06, W08, W09 U01, U02, U03, U04 K01, K02, K03, K04
TK05	IIIrd class G.V. Black-cavity design. Basic knowledge in color and shade analysis. Cavity preparation of caries media on approximal surface with removal labial wall on lateral incisor. Composite restoration. Finishing and polishing composite restoration. Simodont – III class cavity preparation	4	W01, W02, W05, W06, W08, W09 U01, U02, U03, U04 K01, K02, K03, K04
TK06	IIInd class G.V.Black – cavity design. Matrix systems. The MO/DO cavity preparation on premolar. Composite restoration. Finishing and polishing composite restoration. Simodont – II class cavity preparation (MO or DO)	4	W01, W03, W06, W08, W09 U01, U02, U03, U04 K01, K02, K03, K04
TK07	IIInd class G.V.Black – cavity design. Matrix systems. The MOD cavity preparation on premolar. Composite restoration. Finishing and polishing composite restoration. Simodont – II class cavity preparation (MOD)	4	W01, W03, W06, W08, W09, U01, U02, U03, U04 K01, K02, K03, K04
TK08	IIInd class G.V.Black – cavity design. Matrix systems. The MOD cavity preparation on molar. Composite restoration. Finishing and polishing composite restoration. Simodont – II class cavity preparation (MOD)	4	W01, W03, W06, W08, W09 U01, U02, U03, U04 K01, K02, K03, K04
TK09	Differences in cavity preparation for GIC and composite in V class. V-th class preparation on labial surface of canine or lateral incisor. Composite restoration. Vth class preparation on labial surface of canine or lateral incisor. Filling the cavity with glass ionomer cement. Vth class preparation on buccal surface of molar. Filling the cavity with resin-modified glass-ionomer cement. Simodont – Vth class preparation	4	W01, W02, W03, W05, W06, W08, W09 U01, U02, U03, U04 K01, K02, K03, K04

TK10	<p>Fundamentals of biological treatment of pulp diseases (part I). Odontotropic materials. Deep caries.</p> <p>Differences in medical procedures in the treatment of deep caries. Indirect pulp capping, technique of implementation, indications, contraindications. Cavity preparation of deep caries on approximal surface of premolar tooth. Indirect pulp capping, putting composite restoration. Finishing and polishing restoration.</p>	4	<p>W01, W02, W03, W04, W05, W06, W08, W09, W010</p> <p>U01, U02, U03, U04</p> <p>K01, K02, K03, K04</p>
TK11	<p>Fundamentals of biological treatment of pulp diseases (part II).</p> <p>Direct pulp capping, technique of implementation, indications, contraindications.</p> <p>Bioactive materials (calcium hydroxide cements, MTA, Biodentine) - presentation of their preparation.</p> <p>Cavity preparation of deep caries on approximal surface of molar tooth. Direct pulp capping, composite restoration. Finishing and polishing restoration.</p>	4	<p>W01, W02, W03, W04, W05, W06, W08, W09, W010</p> <p>U01, U02, U03, U04</p> <p>K01, K02, K03, K04</p>
TK12	<p>IVth class G.V. Black-cavity design. Differences in cavity preparation resulting from the use of adhesive materials specially enamel preparation for aesthetic restorations.</p> <p>Cavity preparation of caries media on approximal surface of anterior tooth. Using celuloid crown. Putting composite restoration. Finishing and polishing composite restoration.</p>	4	<p>W01, W02, W03, W05, W06, W08, W09</p> <p>U01, U02, U03, U04</p> <p>K01, K02, K03, K04</p>
TK13	<p>IVth class G.V. Black-cavity design. Differences in cavity preparation resulting from the use of adhesive materials specially enamel preparation for aesthetic restorations. Cavity preparation of caries media on approximal surface of central/lateral incisor. "Free hand" composite restoration using celluloid strip. Finishing and polishing composite restoration.</p>	4	<p>W01, W02, W03, W05, W06, W08, W09</p> <p>U01, U02, U03, U04</p> <p>K01, K02, K03, K04</p>
TK14	<p>Preparation of a cavity in a natural tooth and its restoration using an adhesive material.</p>	4	<p>W01, W02, W03, W05, W06, W07, W08, W09</p> <p>U01, U02, U03, U04, U06</p> <p>K01, K02, K03, K04</p>
TK15	<p>Preparation of a cavity in a natural tooth and its restoration using an adhesive material.</p>	4	<p>W01, W02, W03, W05, W06, W07, W08, W09</p> <p>U01, U02, U03, U04, U06</p> <p>K01, K02, K03, K04</p>
TK16	<p>PRE-OSCE – preparation for the exam</p>	4	<p>W01, W02, W03, W05, W06, W08, W09</p> <p>U01, U02, U03, U04</p>

			K01, K02, K03, K04
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<b>Booklist</b>
Obligatory literature:
1. Roberson T.M., Heymann H.O., Swift E.J, <i>Sturdevants Art &amp; Science of Operative Dentistry</i> , Mosby, St. Louis 2018
2. <i>Essentials of Dental Caries</i> , Fourth Edition Edwina Kidd and Ole Fejerskov, Oxford 2016

<b>Student's workload</b>	
Form of student's activity (in-class participation; activeness, produce a report, etc.)	Student's workload [h]
	Tutor
Contact hours with the tutor	71
Time spent on preparation to seminars/ practical classes	15
Time spent on reading recommended literature	15
Time spent on writing report/making project	0
Time spent on preparing to colloquium/ entry test	25
Time spent on preparing to exam	24
Other .....	-
<b>Student's workload in total</b>	<b>150</b>
<b>ECTS credits for the subject (in total)</b>	<b>5</b>
<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...