



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

Module title: Preclinical Conservative Dentistry	
Module type	<u>Obligatory</u> /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 2 , semester IV
ECTS credits (incl. semester breakdown)	5
Type/s of training	Lecture (2h)/seminars (4h)/ practical classes (60h)
Form of assessment*	<input type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <ul style="list-style-type: none"> <input checked="" type="checkbox"/> final examination <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input checked="" type="checkbox"/> practical <input type="checkbox"/> oral
Head of the Department/ Clinic, Unit	Prof. dr hab. n. med. Mariusz Lipski
Tutor responsible for the module	Dr n. med. Katarzyna Kot fantom@pum.edu.pl 91-466-1630
Department's/ Clinic's/ Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/katedra-i-zaklad-stomatologii-zachowawczej-przedkliniknej-i-endodoncji-przedkliniknej
Language	English

* replace into where applicable

Detailed information

Module objectives		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

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 surface properties of tooth hard tissue and dental biomaterials	C.W26.	oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam
W02	knows and understands adhesion and mechanism of developing adhesive joint and procedures for adhesive preparation of enamel, dentine and dental biomaterials surfaces	C.W27.	oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam
W03	knows and understands basic clinical procedures for reconstruction of tooth hard tissue, endodontic treatment and methods and laboratory procedures for prosthetic restorations	C.W28.	oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam

W04	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.	oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam
W05	knows and understands indications and contraindications to esthetic procedures	F.W11.	oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam
U01	is able to provide endodontic treatment and restore missing mineralized tissue of phantom tooth	C.U9.	assessed on classes practical exam
U02	is able to apply adhesive techniques	C.U10.	assessed on classes practical exam
U03	is able to select reconstructive, prosthetic and binding materials according to properties of materials and clinical conditions	C.U11.	assessed on classes practical exam
U04	is able to formulate research problems in dentistry	F.U12.	oral thematic seminars
K01	is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs	K.5.	assessed on classes
K02	is ready to propagate health-promoting behavior	K.6.	assessed on classes
K03	is ready to use reliable sources of information	K.7.	assessed on 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.	assessed on classes

Table presenting LEARNING OUTCOMES in relation to the form of classes

No. of learning outcome	Learning outcomes	Type of training						
		Lecture	Seminar	Practical	Clinical classes	Simulations	E-learning	Other...
W01	knows and understands surface properties of tooth hard tissue and dental biomaterials	X	X			X		
W02	knows and understands adhesion and mechanism of developing adhesive joint and procedures for adhesive preparation of enamel, dentine and dental biomaterials surfaces	X	X			X		
W03	knows and understands basic clinical procedures for reconstruction of tooth hard tissue, endodontic treatment and methods and laboratory procedures for prosthetic restorations	X	X			X		
W04	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			X		
W05	knows and understands indications and contraindications to esthetic procedures	X	X			X		
U01	is able to provide endodontic treatment and restore missing mineralized tissue of phantom tooth					X		
U02	is able to apply adhesive techniques					X		
U03	is able to select reconstructive, prosthetic and binding materials according to properties of materials and clinical conditions					X		
U04	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		

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	No. of hours	References to learning outcomes
Summer semester			
Lectures			
TK01	Etiology of caries. Classification of caries.	1	W01, W02, W03, W04, W05

TK02	Methods of caries diagnosis.	1	W01, W02,W03,W04, W05
Seminars			
TK01	Basic information about vital pulp therapy- part I. Indirect pulp capping. Materials for indirect pulp capping.	1	W02,W03,W04 U04
TK02	Basic information about vital pulp therapy- part II. Direct pulp capping.	1	W02,W03,W04 U04
TK03	Anatomy of upper first molar - rules for restoration occlusal surface- tools.	1	W01,W02,W03, W05 U04
TK04	Anatomy of lower first molar - rules for restoration occlusal surface- tools.	1	W01,W02,W03, W05 U04
Simulation			
TK01	General information about carries. Environment of dental practice. Health and safety regulations. G.V. Black and Mount-Hume classification. Pit and fissure sealing on molar occlusal surface using pit and fissure sealant/flow composite. Rubber dam placement.	4	W01,W02, W04,W05 U01, U02,U03 K01,K02,K03,K 04
TK02	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.	4	W01,W02,W05 U01,U02,U03 K01,K02,K03,K 04
TK03	IInd class G.V.Black – cavity design. Matrix systems. The MO/DO cavity preparation on premolar. Composite restoration.	4	W01,W03 U01,U02,U03 K01,K02,K03,K 04
TK04	IIIRD class G.V. Black-cavity design. Basic knowledge in color and shade analysis. Finishing of the composites. Preparation of caries media on approximal surface without removal labial wall on canine/ incisor. Composite restoration.	4	W01,W02, W05 U01,U02,U03 K01,K02,K03,K 04
TK05	IIIRD class G.V. Black-cavity design. Basic knowledge in color and shade analysis. Finishing of the composites. Preparation of caries media on approximal surface with removal labial wall on lateral incisor. Composite restoration.	4	W01,W02, W05 U01,U02,U03 K01,K02,K03, K04
TK06	Vth class G.V. Black-cavity design. Differences in cavity preparation for adhesive restoration. Glass Ionomer Cements. Differences in cavity preparation for GIC and composite in V class. Preparation of caries media on labial surface Vth class Black of canine or lateral incisor. Filling composite. Finishing restoration.	4	W01,W02,W03, W05 U01,U02,U03 K01,K02, K03,K04
TK07	Vth class G.V. Black- cavity design. Differences in cavity preparation for amalgam restoration. G. V. Black 10 steps of cavity preparation for amalgam restoration. Preparation of caries media on buccal surface Vth class Black of molar tooth. Putting base GIC, amalgam.	4	W01,W02,W03, W05 U01,U02,U03 K01,K02,K03, K04

	Catch-up classes. Four handed dentistry (instruments transfer, moisture control).		
TK08	IInd class G.V.Black – cavity design. Matrix systems. Carving and finishing amalgam from previous classes. Preparation of caries media on approximal surface (MO/DO) of premolar tooth. Putting GIC, amalgam.	4	W01,W02,W03, W05 U01,U02,U03 K01,K02,K03, K04
TK09	IVth class G.V. Black-cavity design. Differences in cavity preparation resulting from the use of adhesive materials specially enamel preparation for aesthetic restorations. Preparation of caries media on approximal surface of anterior tooth. Using celuloid crown composite restoration. Finishing restoration. Carving and finishing amalgam from previous classes.	4	W01,W02,W03, W05 U01,U02,U03 K01,K02,K03, K04
TK10	IVth class G.V. Black-cavity design. Differences in cavity preparation resulting from the use of adhesive materials specially enamel preparation for aesthetic restorations. Preparation of caries media on approximal surface of anterior tooth. "Free hand" composite restoration. Finishing restoration.	4	W01,W02,W03, W05 U01,U02,U03 K01,K02,K03,K 04
TK11	Fundamentals of biological treatment of pulp diseases. Odontotropic materials. Deep caries. Differences in medical procedures in the treatment of deep caries. Indirect pulp capping, technique of implementation, indications, contraindications. Preparation of deep caries on approximal surface of premolar tooth. Indirect pulp capping, composite restoration. Finishing restoration.	4	W01,W02,W03, W04,W05 U01, U02, U03 K01, K02, K03, K04
TK12	Fundamentals of biological treatment of pulp diseases - part II. Direct pulp capping, technique of implementation, indications, contraindications. Bioactive materials (calcium hydroxide cements, MTA, Biodentine) - presentation of their preparation. Preparation of deep caries on approximal surface of molar tooth. Direct pulp capping, composite restoration. Finishing restoration.	4	W01,W02,W03, W04,W05 U01,U02,U03 K01,K02,K03,K 04
TK13	Anatomy of upper first molar - rules for restoration occlusal surface- tools. Summary. Preparation of caries media on mesio-occlusal- diastal (MOD) cavity on tooth 16 or 26. Base-GIC, filling composite. Finishing restoration.	4	W01,W02,W03, W04,W05 U01,U02,U03 K01,K02,K03,K 04
TK14	Anatomy of lower first molar - rules for restoration occlusal surface- tools. Preparation of caries media on mesio-occlusal- diastal (MOD) cavity on tooth 36 or 46. Base –GIC, filling composite. Finishing restoration.	4	W01,W02,W03, W04,W05 U01,U02,U03 K01,K02,K03,K 04
TK15	Ist class G.V. Black –cavity design. Differences in cavity preparation for composite. I class cavity preparation on caries media in occlusal surface in molar. Composite restoration. Four handed dentistry (instruments transfer, moisture control). Rubber dam placement. Summary. Practical exam.	4	W01,W02,W03, W04,W05 U01,U02,U03 K01,K02,K03,K 04

Booklist

Obligatory literature:

1. Garg N., Garg A.: Textbook of operative dentistry

2. Kidd E. A.M.: Pickard's Manual Of Operative Dentistry

3. Roberson T.M.: Art & Science of operative dentistry

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 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	50
Time spent on preparing to exam	50
Other	
Student's workload in total	190
ECTS credits for the subject (in total)	5
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...