



Pomorski Uniwersytet Medyczny w Szczecinie
SYLLABUS of the MODULE (SUBJECT)

General information

Module title: Drawing and modelling in dentistry (optional)	
Module type	Obligatory/Facultative (select)
Faculty PMU	Faculty of Medicine and Dentistry
Major	Medical and Dentistry
Specialty	Not applicable
Level of study	Long-cycle X * I cycle <input type="checkbox"/> II cycle <input type="checkbox"/>
Mode of study	<u>full-time/part-time</u>
Year of studies, semester	Year 4, semester VIII
ECTS credits (incl. semester breakdown)	
Type/s of training (Number of hours)	seminars 10h /practical clases 15h
Form of assessment	<input checked="" type="checkbox"/> graded assessment: <input checked="" type="checkbox"/> descriptive: <input checked="" type="checkbox"/> test practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <input type="checkbox"/> final examination: <input type="checkbox"/> descriptive <input type="checkbox"/> test <input 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
Name and contact data of the unit	Department of Preclinical Conservative Dentistry and Preclinical Endodontics
Department's/Clinic's/Unit's website	https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/zaklad-propedeutyki-i-fizykodiagnostyki-stomatologii-zachowawczej-przedkliniknej-i-endodoncji-przedkliniknej
Language	Polish/ English

*where applicable, replace ☐ into **X**

Detailed information

Module objectives		The objective of the faculty of drawing and modelling in dentistry is primarily to teach students modern techniques of tissue reconstruction of tooth crowns damaged by caries or other diseases
Prerequisite /essential requirements	Knowledge	Knowledge of dental anatomy, materials and instruments used in restorative dentistry
	Skills	works in accordance with principles of ergonomy
	Competences	Self-learning habits; teamwork

Description of the learning outcomes for the subject/module			
No. of learning outcome	Student, who has passed the (symbol)	SYMBOL (Referring the standards)	Method of verification of learning outcomes*
W01	knows and describes surface properties of dental hard tissues and biomaterials	K_C.W26	thematic oral seminars continuous assessment in practical classes / practical skills assessment and written assessments
W02	defines the phenomenon of adhesion and mechanisms of adhesion bond formation and procedures of adhesive surface preparation of enamel, dentine and dental biomaterials	K_C.W27	thematic oral seminars continuous assessment in practical classes / practical skills assessment and written assessments
W03	Characterise the basic clinical procedures of dental hard tissue reconstruction	K_C.W28	thematic oral seminars continuous assessment in practical classes / practical skills assessment and written assessments
W04	discusses indications and contraindications for cosmetic dentistry procedures	K_F.W13	thematic oral seminars continuous assessment in practical classes / practical skills assessment and written assessments
U01	Reconstructs missing mineralised tissues in a phantom tooth	K_C.U09	Assessment in practical classes
U02	Applies adhesive techniques	K_C.U10	Assessment in practical classes

U03	Decides on the selection of restorative biomaterials, prosthetic and bonding biomaterials based on material properties and clinical conditions	K_C.U11	assessment in practical classes
K01	shows habit of self-education and lifelong education	K_K01	Assessment in practical classes
K02	Accepts the need for ethical standards and legal conditions relating to the exercise of the profession	K_K02	assessment in practical classes
K03	can co-operate with team members and care about occupational safety	K_K03	Assessment in practical classes
K04	Understands the sense of responsibility for the entrusted property	K_K07	Assessment in practicalclasses classes

Description of the learning outcomes for the subject/module			
No. of learning outcome	Student, who has passed the (symbol)	SYMBOL (Referring the standards)	Method of verification of learning outcomes*
W01	knows and describes surface properties of dental hard tissues and biomaterials	K_C.W26	thematic oral seminars continuous assessment in practical classes / practical skills assessment and written assessments
W02	defines the phenomenon of adhesion and mechanisms of adhesion bond formation and procedures of adhesive surface preparation of enamel, dentine and dental biomaterials	K_C.W27	thematic oral seminars continuous assessment in practical classes / practical skills assessment and written assessments
W03	Characterise the basic clinical procedures of dental hard tissue reconstruction	K_C.W28	thematic oral seminars continuous assessment in practical classes / practical skills assessment and written assessments
W04	discusses indications and contraindications for cosmetic dentistry procedures	K_F.W13	thematic oral seminars continuous assessment in practical classes / practical skills assessment and written assessments
U01	Reconstructs missing mineralised tissues in a phantom tooth	K_C.U09	Assessment in practical classes
U02	Applies adhesive techniques	K_C.U10	Assessment in practical classes
U03	Decides on the selection of restorative biomaterials, prosthetic and bonding biomaterials based on material properties and clinical conditions	K_C.U11	assessment in practical classes
K01	shows habit of self-education and lifelong education	K_K01	Assessment in practical classes
K02	Accepts the need for ethical standards and legal conditions relating to the exercise of the profession	K_K02	assessment in practical classes
K03	can co-operate with team members and care about occupational safety	K_K03	Assessment in practical classes

K04	Understands the sense of responsibility for the entrusted property	K_K07	Assessment in practical classes
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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	Simulation	E-learning	Other
W01	knows and describes surface properties of dental hard tissues and biomaterials		X			X		
W02	defines the phenomenon of adhesion and mechanisms of adhesion bond formation and procedures of adhesive surface preparation of enamel, dentine and dental biomaterials		X			X		
W03	Characterise the basic clinical procedures of dental hard tissue reconstruction		X			X		
W04	discusses indications and contraindications for cosmetic dentistry procedures		X			X		
U01	Reconstructs missing mineralised tissues in a phantom tooth					X		
U02	Applies adhesive techniques					X		
U03	Selects reconstructive, prosthetic and binding materials according to properties of materials and clinical conditions					X		
K01	shows habit of self-education and lifelong education					X		
K02	accepts need of standards of conduct and legislation regarding medical practice					X		
K03	can co-operate with team members and care about occupational safety					X		
K04	Understands the sense of responsibility for the entrusted property					X		

Table presenting TEACHING PROGRAMME			
No. of a teaching programme	Teaching programme	Number of hours	References to learning outcomes
Summer semester			
Seminars			
TK 01	Anatomy of the first molar tooth of the maxillary - principles for restoration of the chewing surface - instruments.	2	W01, W02, W03, W04
TK 02	Anatomy of the first molar tooth of the mandible - principles for restoration of the occlusal surface - instruments.	2	W01, W02, W03, W04
TK 03	Anatomy of incisor teeth in the maxilla - principles of tooth crown reconstruction.	2	W01, W02, W03, W04
TK 04	Pathological tooth wear, causes, consequences and principles of tooth restoration.	2	W01, W02, W03, W04
TK 05	General principles of adhesive restorations. Summary	2	W01, W02, W03, W04
Simulations			
TK 01	Anatomy of the first molar tooth. Drawing of a tooth crown on millimetre paper. Reconstruction of a Class I cavity.	3	W01, W02, W03, W04 U01, U02, U03 K01, K02, K03, K04
TK 02	Anatomy of the mandibular first molar. Drawing of a tooth crown on millimetre paper. Reconstruction of a class I cavity using the occlusal punch technique.	4	W01, W02, W03, W04 U01, U02, U03 K01, K02, K03, K04
TK 03	Anatomy of incisal teeth in the maxilla. Drawing of a tooth crown on millimetre paper. Reconstruction of a class IV cavity using silicone index.	4	W01, W02, W03, W04 U01, U02, U03 K01, K02, K03, K04
TK 04	Pathological tooth wear, causes, consequences and principles of tooth restoration. Drawing of a tooth crown on millimetre paper. Reconstruction of a class IV cavity using the injection technique.	4	W01, W02, W03, W04 U01, U02, U03 K01, K02, K03, K04

Booklist:	
Obligatory literature:	
1. Jańczuk Z., Kaczmarek U., Lipski M. (red.): Stomatologia zachowawcza z endodoncją. Zarys kliniczny. PZWL, Warszawa, 2014.	
2. Douglas A. Terry.: Kompozyty flow w praktyce. Wydawnictwo Kwintesencja, Warszawa, 2019.	
3. Levine J.B pod red. Borczyk D.: Stomatologia Estetyczna. Edra Urban & Partner, Wrocław, 2016.	
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	25
Time spent on preparation to seminars/ practical classes	5
Time spent on reading recommended literature	5
Time spent on writing report/making project	0
Time spent on preparing to colloquium/ entry test	6
Time spent on preparing to exam	0
Other	
Student's workload in total	41
ECTS credits	1
Notes	

* 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

SL – laboratory report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedial presentation

other...