			Syllab	us for	acade	emic y	ear:	2020/	2021					
	٦	Fraini	ing cy	cle:	•••••		•••••		•••••	•••••				
				De	scription	on of tl	he cour	se						
Module/Course									Grou	p of	detaile	d educa	tion re	sults
			Preclinical restorative dentistr				try	Group code C		de C	Group name III-		III-	
												Preclin	ical st	udy
Faculty		F	acult	y of De	entistr	У								
Major		[Dentis	try										
Unit realizing the subject	ct	[Depar	tment	of Pe	dodon	tics and	d Prec	linical	cons	ervativ	ve denti	stry	
Specialties					denti									
Level of studies				_	_	tudies	X*							
			_		udies [
				_	udies									
		3	3 rd de	gree st	udies [
		F	oostgr	aduate	e studi	es 🗌								
Form of studies)	K full-	time	X pai	rt-time	1							
Year of studies			I					Seme	ester	X	Winte	r		
			☐ Summer											
Type of course			X obligatory											
			☐ limited choice											
			free	choice	e / elec	ctive								
Course				or X ba										
Language of instruction			□ Polis	sh X	English	n 🗆 o	ther							
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Unit teaching the course		(SE)	class	es – r	ses ((Class	imula (CSC)	asses	lasses M)	guage	ucatic	Practi	Stude	EL)
Course	(T) sə.		orium	Class	al Clas	atory	s in S tions	Sal Cl	list C s (SCI	n lan	al Edı	onal) Apn:) guir
	Lectures (L)	Seminars	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Specialist Classes – magister studies (SCM)	Foreign language Course (FL	Physical Education obligatory (PE)	Vocational Practice (VP)	Self-Study (Student's own work)	E-learning (EL)
		0,	_		Ŭ	_			01 01				01 2	
Winter Semester														
Direct (contact)				0										
education				30										
Online learning		15												
(synchronous) Distance learning							-							
(asynchronous)				30										
	1	1	1	1	1	1	1	<u>I</u>	1		1		_1	1
Summer Semester														

Direct (contact) education								
Online learning (synchronous)								
Online learning (asynchronous)								
TOTAL per year:								
Direct (contact) education		30						
Online learning (synchronous)	15							
Online learning (asynchronous)		30						

Educational objectives (max. 6 items)

C1. To obtain the basic knowledge on carious process

C2. To obtain the basic theoretical and practical knowledge regarding dental treatment and caries lesions restoration, restorative materials and restorations placement on phantom patient.

Education result matrix for module/course in relation to verification methods of the intended education result and the type of class

Number of course education result	Number of major education result	Student who completes the module/course knows/is able to	Methods of verification of intended education results (forming and summarising)	Form of didactic class **enter the abbreviation
W 01	C. W.26	To define caries disease	Oral response,(F), test (P), OSCE	SE, MC
W02	C.W. 25	To describe and explain the principles of conventional and adhesive preparation of all classes of dental cavities according Blacks classification	Oral response,(F), test (P), essay (P), discussion (F), OSCE	SE, MC
W03	C.W. 24	To describe properties of dental restorative materials and their clinical application	Oral response,(F), test (P),discussion (F), OSCE	SE, MC
W04	C.W.28	To characterize of methods of decay restoration of all cavities classes according to Black classification Oral response,(F), discussion (F), essay (P), OSCE-test (P)		SE, MC
W05	C.W. 27	To explain the goal and performance of pits and fissures sealing	Oral response,(F), test (P),discussion (F), OSCE-test (P)	SE, MC



W06	C.W. 26	To describes and differentiates the loss of hard tissue of non-carious origin	Essay (F), discussion (F), presentation (F), OSCE-test (P)	MC
U01	C.U 05	To perform preparation of all cavities classes according to Black classification on phantom patient	Observation (F) – grade scale from 2 to 5 (F), Assessment OSCE- test (P)	MC
U02	C.U 12	To perform restoration of all cavities classes according to Black classification	Observation, Assessment (F), OSCE-test (P)	MC
U03	C.U 11	To elect restorative materials and connecting based on the properties of materials and the clinical conditions of the caries and non caries cavities	Observation, Assessment (F), discussion (F), OSCE- test (P)	MC
U04	C.U4	To be able to indicate own errors in the reconstruction of the tooth decay and give the way of their correction	Observation, Assessment OSCE- test (P)	MC
U05	C.U5	To be able to work with the simulated patient in laying position by use in proper way the dental instruments	Observation, Assessment OSCE- test (P)	MC
U06	C.U 10	To be able to seal pits and fissures	Observation, Assessment OSCE- test (P)	MC
K 01	K 01	To be able to create rules of the professional comradeship and the cooperation with representatives of other health care professionals	Summarizing methods: - constant evaluation by teacher (surveying) Shaping methods: - observation of student's work - discussion during classes - opinions of colleagues	MC
К02	К02	To cooperate in the group of professionals, in the environment multicultural and multinational	Summarizing methods: - constant evaluation by teacher (surveying) Shaping methods:	MC

			- observation of student's work - discussion during classes - opinions of colleagues	
К03	К03	To be aware of its own restrictions and is able to plan educational activity	Summarizing methods: - constant evaluation by teacher (surveying) Shaping methods: - observation of student's work - discussion during classes - opinions of colleagues	MC

^{**} L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning.

Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes:

Knowledge: 5 Skills: 4

Social competences: 3

Student's amount of work (balance of ECTS points)

Student's workload	Student Workload (h)
(class participation, activity, preparation, etc.)	
1. Contact hours:	30
2. Online learning hours (e-learning):	45
3. Student's own work (self-study):	15
Total student's workload	90
ECTS points for module/course	3
Comments	

Content of classes (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)

Lectures

Seminars

Semester 3

Nr	Theme	
	1. Caries ethiopathomechanism: cariogenic bacteria (plaque - biofilm), dietary fermentable carbohydrates,	
	factors associated with the teeth (saliva, fluoride), and the time factor.	l
		l

2. Dental caries – microscopic and clinical manifestations; white spot, progression of carious lesions, superficial, medium, deep caries 3) Dental cavities classification by Black and SiSta 4) Dental caries treatment: non-invasive and invasive (operational). Non-invasive treatment (remineralization). Fluorite; Caseinate complex with amorphous calcium phosphate; Bioactive glass-phosphosilicon calcium-sodium. 5) Minimal invasive treatment: (1) fissure sealing, (2) caries infiltration, (3) widen fissure sealing, (4) preventive resin restoration, (5) tunnel preparation, (6) key hole preparation, (7) ART technique; (8) chemomechanical caries removal, (9) abrasive preparation (10) laser preparation, 6) Invasive methods of dental caries treatment - Steps of cavities preparation by modified Black's principles (amalgam and composite resin); Initial tooth preparation stages: Outline form and initial depth, Dental caries removal, Resistance and retention form, Finishing external walls, choice of material and their preparation; wash and dry the cavity; filling the cavity; Finish filling. 7) Class I composite and amalgam restoration – step by step 2 1) Materials for reconstruction of hard tissues of the tooth. Distribution: temporary filling materials, liners, final filling materials, materials for filling holes and fissures, adhesive systems. 2) Clinical application of dental restorative materials (indications and contraindications) a) Glass-ionomer; biomechanics; (types: type I - Luting, type II - Fillings, type III - Liners and Bases, type IV -Sealants, Type V - orthodontics, VI - Core; types: conventional - and modified resin - light-cured; b) Composites – consistency (flow, normal, packable, pit-and-fissure sealant); biomechanics, adhesion, clinical technique (acid-etching and bonding technique), polimeryzation methods composite restoration; layers; use of flowable composite c) compomer, d) ormocer, e) giomer, f) Amalgam; low-copper, high-copper, shape of the particles - spherical, irregular. 3) Polymerization of composites and glass ionomer; polymerization techniques, reconstruction techniques (bulk, layered). 4.Adhesive system - generations (I-VIII), the way the application. 5. Amalgam filling - clinical stages; composite resins - clinical stages. 6 Liners -division 7. Liners and base: composition, defect, advantages, clinical application of each of the materials (phosphate, carboxylic, GI, ZnO + eugenol, Ca (OH) 2 purpose of use, When you use liners?, application techniques, materials for base and liner 9 Adhesion and non-adhesion of the liners 10. Temporary fillings 3. Preparation and filling of Class I-V cavities, step by step, adhesive and non-adhesive 1) Class I composite restoration – step by step 2) Class I amalgam restoration – step by step 3) Class II composite restoration – step by step 4) Class II amalgam restoration – step by step 5) Class III composite restoration – step by step 6)Class III GI restoration – step by step 7) Class IV composite restoration – step by step 8) Class V composite restoration – step by step 9) Class V amalgam restoration – step by step 10) Matrices and retainers - types and application, wedges, gum bleeding, proximal contact, occlusal surface reconstruction 4 1) Non-carious lesions - causes, clinical view, therapeutic procedure. introduction and differentiation with carious cavities Erosion, abfraction, attrition, 2)Traumatic damage to teeth 3) Differentiation of carious and non-carious lesions 4) Developmental disorders - hypoplasia-causes, clinical view, treatment strategies. 5) Others hard tissue defects – clinical view, therapeutic procedure, minimally invasive class II cavity preparation (slot preparation, tunnel preparation)

- 1) Indirect fillings in posterior teeth: inlay, onlays, overlay, pinlay.
 - 2) CAD / CAM (Computer-Aided Design and Computer-Aided Manufacturing).
 - 3)The rules of hygiene
 - a. cross-infection
 - b. basic knowledge of disinfection and sterilization
 - c. Handpiece conservation, suction and other parts of dental unit
 - d. the patient and the physician as a potential source of infection
 - e. protection of doctor and patient

Practical classes

Semester 3

1. Introductory exercise			
Introduction	Repetition	<u>Demonstration</u>	Practical
1. Simulating tutorials calendar, curriculum, requirements, evaluation and conduct; professional behaviour during simulating procedures 2. Use and care of work place; dental unit, handpieces, instruments, arrangement of work place, proper use and maintenance of work place 3. Demonstration – operator and patient positioning 4. Assembly and disassembly of the phantom, cleaning, use of dental unit. 5. Proper use and clean maintenance of handpieces; sorting instruments in the appropriate set 6. Types of dental instruments: diagnostic tools for preparation and filling, tips, drills (types and shapes) 7. The rules of hygiene a) basic knowledge of disinfection and sterilization b) maintenance tips, suction and other dental unit parts c) the patient and the physician as a potential source of infection d) protection of doctor and patient e) incorrect habits	Teeth and instruments (1) Dental nomenclatu re (2) Numerical identification of teeth (3) Dental instruments	1) Hand instruments grip 2)Dental handpiece grip 3) Finger rest 4) Cutting technique 5) Keeping ergonomic posture surgery in the correct distance between the phantom patient and the operator,	1) Drilling in different types of materials (glass, wood, plastic, gypsum). Preparation of concrete shape in gypsum 2.Preparation predetermined shape in the teeth, plaster, acrylic: Shape round-diameter-from 2 to 3 millimeters and a depth of from 1 to 3-4 millimeters, oval, square, trapezoidal with different depths Attention Cariogenesis – metabolism of sugars (biochemistry) - homework

2. Fissure sealing, PRR A, PRR B			
Introduction	Repetition	Demonstration	<u>Practical</u>
1 Etiology and pathogenesis of dental caries, dental caries in pits and fissures. 2. Dental caries location - diagnosis and prevention3. Classification of caries by Black and Si-Sta 4 Preparation of cavities a cost-effective preparation, non-invasive treatment, accurate outlines b Modified rules for preparation of cavities by Black (NO extension for prevention, NOT - a	Teeth and instruments (1) Dental nomenclature	1) Keeping ergonomic posture during caries treatment and the correct distance between the phantom	1) Fissure sealing of permanen natural teeth 2) Widen fissure sealing (permanent natural teeth) – PRR A



T				_
sharp angle between the walls and the bottom	(2) Numerical	patient and the	3) Preparation of small Class I	
of the cavity, NOT parallel walls)	identification	operator,	cavity as preventive resin	
c opening and outline form of the defect, the	of teeth	0) 6	restoration - PRR B	
determinants		2) Setting the		
d resistance form	(3) Dental	patient and the	4) Class I cavity preparation –	
e retention form	instruments	operator to	composite (simple, complex,	
f adhesive materials and the shape of the cavity		work in the	maxilla, mandible, molar,	
c principles of cavity preparation Class I		upper and	premolar and the establishment	
(location, outline correct and errors (excessive		lower jaw	of a temporary filling)	
preparation))		_,	5) Class I cavity preparation –	
d. Explanation of and relationships between the		3) Fissure	composite (simple, complex,	
size and shape of the defect, the location and		sealing, widen	maxilla, mandible, molar,	
shape of the cavity, the material and shape of		fissure sealing	premolar and the establishment	
the cavity of the tooth, anatomy and the outline		(permanent	of a temporary filling)	
and shape of the cavity		natural teeth) –		
h corresponding slope edge of the cavity		PRR A;	6) Class I cavity preparation –	
i Determinants outline the cavity shape,		Preparation of	amalgam (simple, complex,	
resistance and retention form, cavity margins		small Class I	maxilla, mandible, molar,	
preparation (hand instruments)		cavity	premolar and the establishment	
4 Hand tools - chisels, enamel trimmers		connected with	of a temporary filling)	
5 Modeling fillings, shaping occlusal surface		preventive	7) Name all stages of cavity	
8 Control of the occlusion		resin	preparation, cavity walls, tools.	
9. Fissur sealing - indications, treatment		restoration -	8)Accurate modeling of the	
techniques, tools and materials		PRR B	occlusal surface with a	
10. Fissure sealing procedures			temporary filling	
11. Preventive resin restoration; PRR A;		4) Class I cavity		
indications, clinical technique, instruments,		preparation for		
materials		composite and	Attoution	
12 Preparation of small Class I cavity as		amalgam and	Attention Tomporary filling	
preventive resin restoration PRR B; indications,		fill it with	Temporary filling	
clinical technique, instruments, materials		temporary		
		filling.		
				╝

3. Class I Amalgam, Composite		
Introduction	<u>Demonstration</u>	<u>Practical</u>
 Etiology and caries progression in pits, fissures Choosing the right method of treatment depending on the stage caries lesion Arrested caries, when and why? Using of dental probe is safe? Steps of cavities preparation by modified Black's principles Outline form Dental caries removal Resistance and retention form (Not - extension for prevention, Not - sharp wallsbottom angle, Not - parallel walls): when to cover cusps; Determinants, principles and specification of Class I cavity preparation; 	1. Ergonomic posture during operative procedures (distance between dentist eye and tooth) 2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Cavity Class I preparation and restoration by amalgam 4. Cavity Class I preparation and restoration by composite	1. Preparation and restoration Class I cavities for composite (simple, complicated; maxilla, mandible; molar and premolar) 2. Preparation and restoration Class I cavities for amalgam(simple, complicated; maxilla, mandible; molar and premolar)

5. Steps of cavities preparation by Black's	3. Names of all steps
6. Resistance and retention form	of cavity preparation
7. Walls angles in cavity preparation for	
amalgamat	
8. Basic information about materials GI and	
amalgam.	
9. Preparation of amalgam ang GI	
10. Instruments for amalgam restoration	
(excavators, chisels)	

4. 2 x Class I - continuation		
ntroduction	<u>Demonstration</u>	<u>Practical</u>
1. Dental caries etiology and morphology, caries or or or pression in pits, fissures. 2. Progression of carious lesions – method of or	1. Ergonomic posture during operative procedures (distance between dentist eye and tooth) 2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) 3. Cavity Class I preparation and restoration by amalgam 4. Cavity Class I preparation (matrices and retainers - types and application, wedges, proximal contacts) and restoration by liner and amalgam with proximal contacts and occlusal surface modeling	1. Preparation and restoration 2 Class I cavities (simple, composed; maxilla, mandible; molar and premolar) and 1 Class I cavity 2. Preparation and restoration 2 Class I cavities with reconstruction of occlusal surface 3. Names of all steps of cavity preparation 4. Before composite restoration filling by temporary materials 5. Before restoration — modeling all surfaces by plasticine 6. Preparation of simple Black II (maxilla or mandible, molar or premolar) under the assumption of an amalgam filling and a temporary filling.



<u>Introduction</u>	<u>Demonstration</u>	Practical
1.Morphology of Class V	Ergonomic posture during	1. Preparation of 4
2. Rules of Class V cavity preparation.	operative procedures (distance between dentist and tooth)	Class V preparation (maxilla, mandible,
3. geometry of cervical cavity (amalgam, GI, composites)	2. Work in upper and lower arch	molar), restoration by composite, glass
b) preparation - esthetics and composites adhesion (enamel contouring)	(usage of dental mirror and positioning in upper and lower teeth)	ionomer (sandwich technique) and amalgam
c) steps and drills of Class V cavities preparation	3. Conventional and adhesive preparation of Class V cavity	2. Names of all step
d) preparation, lack of preparation (when you can dispense with cavity preparation)	enamel preparation, reconstruction.	of cavity preparatio 3. Before permaner
4) Reconstruction of tooth shape		filling place
5) the use of retraction floss, matrices		temporary filling
6) Gingival wall (presence or lack of enamel) – procedures, prognosis		
7) Liners application and materials		
8) Finishing and polishing of restoration, shape of Class V restoration		
9) Mistakes and after effects (shape – problems and its solutions, overhang, leakiness, occlusal mistakes, caries secundaria)		
10) The reasons for the loss of filling, improper application of bonding agent, saliva, insufficient rinsing, bad eching, 11) Stages of cavity preparation by Black, Black and SiSta - repertory		





<u>ntroduction</u>	<u>Demonstration</u>	<u>Practical</u>
Etiology and pathogenesis of dental caries,	1. Ergonomic posture	1.Preparation and
dental caries in pits and	during operative	restoration 1 Class II
fissures and smooth surfaces;	procedures (distance	cavities by composite
2 Choosing the right method of treatment	between dentist eye and	resin.
according to the severity of the caries lesion	,	
3. Using of dental probe is it safe – arested caries?	tooth)	2. Preparation and
4. Steps of cavities preparation by modified Black's	2. Work in upper and lower	filling composite
principles	, ,	(maxilla or mandible,
a) Outline form	arch (usage of dental	molar or premolar).
b) Dental caries removal	mirror and positioning in	Sandwich technique
c) Resistance and retention form	upper and lower teeth)	3 Continued
d) Not - extension for prevention, Not – sharp	2 8	preparation and
walls-bottom angle, Not – parallel walls	3. Preparation and	amalgam filling one
e) Proximal wall preparation	restoration of 1 Class II	
f) Gingival wall preparation (CEJ location,	cavity by sandwich	cavity class II (straigh
materials)	technique	maxilla or mandible,
g) Proximal parts of lateral wall preparation		molar and premolar)
h) cusps reconstructions	4. Class II simple and	
5. Stages of cavity preparation by Black,	complex - differences	4. Preparation of MO
6. resistance and retention form, how to get the		(maxilla or mandible,
retention	5. Preparation and	molar or premolar).
7. The corresponding angles of preparation and	restoration 1 Class II	Sandwich technique
filling in the application of amalgam	cavities by amalgam.	and a temporary
8. basic information about materials and amalgam		filling.
	6. Cavity preparation class	6.
9. Preparation for amalgam and cement GI	II, an appropriate matrix	5. Preparation of MO
10. Instruments for cavity preparation: chisel, enamel trimmers.	and wedge point of	(maxilla or mandible,
	contact, contouring matrix,	molar or premolar).
11. Matrices and retainers - types and application, wedges. Multisurface cavity preparation and	leak test, backing and filling	•
restoration		Sandwich technique
a. Cusp and tooth fracture	amalgam of carving and	and a temporary
b. Proximal point – problems and its solutions	modeling occlusal contact	filling.
c. Reconstruction of the tooth with cusp fracture	surface	6. Name all stages of
12. Sandwich technique	7. Cavity preparation type	cavity preparation,
a. indications	the MOD and MOD	cavity walls, tools
b. closed and opened technique	composite filling	7. Before completing
c. materials		the final fill temporar
13 Matrices and retainers - types and application,		and mar mi temporar
wedges		
14. Biomechanics of teeth and materials		
15. Composites and GI – clinical technique,		
material and teeth preparation, layer technique,		
adhesion, advantages and disadvantages		
16. Enamel margin preparation		
17. Steps of cavities preparation by Black's		
principles; dental cavities classification by Black		
and SiSta		

18. Proximal point, restoration margin, polishing.		
8 Class II cavities, composites, MOD, MODB, Modern Modern Introduction 1 Etiology and pathogenesis of dental caries, dental caries in pits and fissures and smooth surfaces;	atrices, Materials Demonstration 1 Keeping ergonomic posture surgery in the correct distance between the	Practical 1 Cavity preparation class II (maxilla,
2 Choosing the right method of treatment according to the severity of the caries lesion 3. Using of dental probe is it safe – arrested caries? 4. Steps of cavities preparation by modified Black's principles a) Outline form b) Dental caries removal c) Resistance and retention form d) Not - extension for prevention, Not – sharp wallsbottom angle, Not – parallel walls e) Proximal wall preparation f) Gingival wall preparation (CEJ location, materials) g) Proximal parts of lateral wall preparation h) cusps reconstructions 5. Stages of cavity preparation by Black, 6. resistance and retention form, how to get the retention 7. The corresponding angles of preparation and filling in the application of amalgam 8. basic information about materials and amalgam GI 9. Preparation for amalgam and cement GI 10. Instruments for cavity preparation: chisel, enamel trimmers. 11. Matrices and retainers - types and application, wedges. Multisurface cavity preparation and restoration a. Cusp and tooth fracture	phantom patient and the operator, 2 Position the patient and the operator to work in the maxilla and mandible 3 Filling a cavity MOD, MOD 6 sandwich technique 7 Slot preparation and Tunnel preparation 8 The demonstration of primers, bonds and etching-gels 9 Temporary fillings - presentation, application 10 Liner- when to use	mandible, molar), filling sandwich (open sandwich) 2 Cavity preparation class II MOD (maxilla, mandible, molar), filling sandwich or composite 3 Extensive MOD cavity preparation and filling (maxilla or mandible, molar), filling sandwich or composite 4 Cavity preparation class II-type of simple and composite filling 5 Before completing the final fill temporary



T	c. Reconstruction of the tooth with cusp fracture			_
	12. Sandwich technique			
	a. indications			
	b. closed and opened technique			
	c. materials			
	13 Matrices and retainers - types and application,			
	wedges			
	14. Biomechanics of teeth and materials			
	15. Composites and GI – clinical technique, material			
	and teeth preparation, layer technique, adhesion,			
	advantages and disadvantages			
	16. Dental materials – classification, advantages and			
	disadvantages			
	17. Bonding agents – generations			
	18. Additional materials			
	18. Temporary materials - classification, advantages			
	and disadvantages			
				_
	9. Class II cavities , Class III, Composites			
	Introduction	<u>Demonstration</u>	<u>Practical</u>	
1				

- 1. Caries morphology of Class III
- 2. Steps of Class III cavities preparation
- a) Outline form and prevention of nearest tooth
- b) Conventional and adhesive cavity preparation for Class III
- c) factors determined cavity outline, resistance and retention shape
- d) adhesive preparation
- 3) Matrices and retainers types and application, wedges, proximal point, tooth shape
- 4) Placement and removal technique for rubber dam
- 5) Composites colors, optical properties of enamel and dentin, layer technique, consistency of materials, enamel and dentin colors
- 6) Finishing and polishing of restoration, occlusion, proximal point
- 7) Mistakes and after effects (proximal point problems and its solutions, overhang, leakiness, occlusal mistakes
- 8) Enamel margin preparation
- 9) Dental cavities classification by Black and SiSta, steps of cavities preparation by modified Black's principles - revision

- Ergonomic posture during operative procedures (distance between dentist eye and tooth)
- 2. Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth)
- Rubber dam application in posterior and anterior upper and lower teeth
- 4) Preparation and restoration Class
 III cavities by composite
- 5) Preparation and restoration Class
 III cavities by sandwich technique

- 1 Preparation and filling two cavities class III simple and complex-(maxilla, mandible)
- 2 GI cement filling one for class III (maxilla or mandible)3 Fill one loss in Class
- III open-sandwich
 method
 recommended canine
 3 Name all stages of
- 3 Name all stages of cavity preparation, cavity walls, tools
 4 Before completing the final fill temporary

10. 2 × Class III; 2 × Class IV

Ergonomic posture during operative procedures (distance between dentist eye and tooth) Work in upper and lower arch (usage of dental mirror and	1. Preparation of 2 Class III cavities (maxilla and mandible) sandwich technique
Work in upper and lower arch (usage of dental mirror and	mandible) sandwich
(usage of dental mirror and	tochnique
	technique
positioning in upper and lower teeth)	2. Preparation and restoration of 2 Class IV cavities using
3. Explanation of factors influencing on outline, resistance and retention shape in cavity	feathery and chamfer cutting of
Class 4 preparation; cutting of enamel ridge – feathery and	enamel ridge (incisors in maxilla)
chamfer, one layered and multiple layered reconstruction	3.Preparation and restoration of 1 Class IV carious cavity
	4.Preparation and restoration of 1 Class IV fractured tooth
	5 Names of all steps of cavity preparation, walls and instruments
	influencing on outline, resistance and retention shape in cavity Class 4 preparation; cutting of enamel ridge – feathery and chamfer, one layered and multiple layered reconstruction



<u>Introduction</u>	<u>Demonstration</u>	<u>Practical</u>
1. Caries morphology of Class 4 cavities and	1. Ergonomic posture during	1. Preparation of 2
post-traumatical injuries	operative procedures (distance	Class IV cavities
2. Steps of Class IV cavities preparation	between dentist eye and tooth)	(maxilla and
a) Outline form and protection of nearest tooth, fractured dental crown	Work in upper and lower arch (usage of dental mirror and positioning in upper and lower	mandible) sandwic technique 2.Preparation and
b) Conventional and adhesive cavity	teeth)	restoration of 1 Cla
preparation for Class IV	2.5	IV carious cavity
p. spa. a.s	3. Preparation of 1 Class IV	2 Duamanation and
c) factors determined cavity outline, resistance and retention shape	cavities (cutting of enamel ridge – feathery and chamfer)	3.Preparation and restoration of 1 Cla
d) steps of cavity preparation, drills		IV fractured tooth (one layered
3) Matrices and retainers - types and		method)
application, wedges, proximal point, tooth		4. Names of all step
shape		of cavity
5) Composites – colors, optical properties of enamel and dentin, layer technique, consistency		preparation, walls and instruments
of materials, enamel and dentin colors		5. Before completi
6) Finishing and polishing of restoration, occlusion, proximal point		the final fill temporary
7) Mistakes and after effects (proximal point – problems and its solutions, overhang, leakiness, occlusal mistakes		
8) Loss of retention – causes, mistakes in bonding and acid-etching, saliva contaminations,		
9) Dental cavities classification by Black and Si/Sta, steps of cavities preparation by modified Black's principles - revision		



12. Non-carious lesion, fractures			
Introduction	<u>Demonstration</u>	<u>Practical</u>	
1.Noncarious lesions - types 2 Erosion, abrasions, abfraction - causes 3 Differentiation of hearing próchnicowymi a Black V- 4 Materials used for fillings dental hard tissue of noncarious lesion 5 Errors and limitations of the design and performance of hard tissue defects noncarious lesion 6 Acute and chronic fractures 7 The differences between Black IV and fractured teeth	 Ergonomic posture during operative procedures (distance between dentist eye and tooth) Work in upper and lower arch (usage of dental mirror and positioning in upper and lower teeth) Preparation of noncarious lesions Reconstruction of noncarious lesions. Preparation of fractured anterior teeth, direct reconstruction 	1 Preparation of two noncarious cavities. 2 Filling with composite, glassionomer cement and amalgam 3. Preparation of one front tooth crown fractures and fill method of direct composite	Id

<u>Introduction</u>	<u>Demonstration</u>	<u>Practical</u>
Dental caries definition, etiopathology and	1. Rubber dam	1. Rubber dam
clinical symptoms	2. Diagnodent	2. Matrices
2. Dental plaque; Role of saliva; Fluoride as a		
factor in reduced caries activity; Sugar; Time.		
3) Dental cavities classification by Black and		
SiSta		
4) Caries diagnosis.		
5) Dental caries – microscopic and clinical		
manifestations; white spot, progression of		
carious lesions		
5) Dental caries treatment;		
a. dental materials – classification		
b. permanent materials – composites,		
compomers, ormocers, amalgam, GI, applicable		
to specific types of cavities, composition,		
advantages, disadvantages		
3. Temporary fillings- types, application,		
composition, advantages, disadvantages		
4. Lining-types, application, defects,		
advantages, disadvantages - when we apply		
liner		

d. The patient and the doctor as a potential

e. Protection of dentist and patient

source of infection

Appendix to Resolution No. 2186 of Senate of Wroclaw Medical University of 1 July 2020

Introduction	<u>Demonstration</u>	<u>Practical</u>
1. Test and essay of cariology	Preparation and construction of	Preparation and
2. Inlays, onlays	inlay (Class II, composite, direct	construction of inl
a. Indications and contraindications	restoration)	(Class II, composite,
b. Advantages and disadvantages	CAD/CAM presentation	direct restoration)
c. Materials		CAD/CAM
d. Preparation		preparation
3. The rules of hygiene when working with a		
patient:		
a. Cross infection		
b. Desinfection and sterilization		
c Conservation (dental unit, handpieces)		

15. Composites, Credit of course "Pre-clinical conservative dentistry" based on practical skill and theoretical knowledge

<u>Introduction</u>	<u>Demonstration</u>	<u>Practical</u>
1. Test of cariology - repetition		Credit of course - 14 carious lesions –preparation and restoration - including 2 x BL I (simple and complex), 4 x BI II (simple, complex, MOD, MOD), 2 x BI III-simple, complex, 2 x BI IV (including 1 fractured), 4 x BI V, 4 noncarious lesions, 1 fissure and sealing methods and PRR I and PRR II.

Other

Basic literature (list according to importance, no more than 3 items)

- 1. Sturdevant's art and science of operative dentistry / ed. Theodore M. Roberson, Harold O. Heymann, Edward J. Swift. 6th ed.. St. Louis : Mosby , 2012
- 2. Kidd E.A.M. Smith B.G.N., Pickard H.M.: Picard's Manual of operative dentistry.9. ed. Oxford Medical Publication 2011.

- 3. Kidd E.A.M.. Joyston-Bechal S.: Essentials of dental caries. 3 ed. Oxford University Press, O Additional literature and other materials (no more than 3 items)
- 1.. Powers J.M., Wataha J.C. Dental Materials: Properties and Manipulation, Mosby 2012

Didactic resources requirements (e.g. laboratory, multimedia projector, other...) multimedia projector, phantoms (simulated patient), models, camera, a local computer network

Preliminary conditions (minimum requirements to be met by the student before starting the module/course) Student should know the anatomy and histology of teeth based on subjects from the I year.

Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be med by the student to pass it and criteria for specific grades)

Presence on seminars and classes in accordance with the rules of study and rules of procedures of the Department of Conservative Dentistry and Pedodontics. Admission for crediting is based on the implementation of certain procedures (that is: 14 cavities according to Black, and 4 cavities of non caries origin) and the positive evaluation of the oral response (debate, discussion, presentation) and test validation of knowledge.

Preclinical dentistry is the part of the exam allowing student to exercise on clinical OSCE.

Grade:	Criteria (only for courses/modules ending with an examination)		
Very Good	achievement of learning outcomes covering all relevant aspects		
(5.0)			
Good Plus	achievement of learning outcomes covering all relevant aspects with some		
(4.5)	errors or inaccuracies		
Good	achievement of intended learning outcomes, with omitting some of the less		
(4.0)	important aspects		
Satisfactory Plus	achievement of intended learning outcomes, with omitting some important		
(3.5)	aspects or significant inaccuracies		
Satisfactory	achievement of intended learning outcomes, with omitting some importan		
(3.0)	aspects or serious inaccuracies		
	Criteria (only for courses/modules ending with e credit)		
Credit			

Grade:	Criteria (examination evaluation criteria)	
Very Good	achievement of learning outcomes covering all relevant aspects	
(5.0)		
Good Plus	achievement of learning outcomes covering all relevant aspects with some	
(4.5)	errors or inaccuracies	
Good	achievement of intended learning outcomes, with omitting some of the less	
(4.0)	important aspects	
Satisfactory Plus	achievement of intended learning outcomes, with omitting some important	
(3.5)	aspects or significant inaccuracies	
Satisfactory	achievement of intended learning outcomes, with omitting some important	
(3.0)	aspects or serious inaccuracies	
Unit realizing the	Department of Pedodontic and Preclinical Conservative Dentistry W. U. Med.	
subject		
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Person responsible for	Prof. Maciej Dobrzyński, PhD,DSc	
module		
Coordinator	Magdalena Wirzman	
Telephone	(71) 7840362	
E-Mail	magdalena.wirzman@umed.wroc.pl	

Full name	Degree/scienti fic or professional title	Discipline	Performed profession	Form of classes
Michał Biały	BDS	Dentistry	Dentist	classes
Magdalena Wirzman	BDS	Dentistry	Dentist	seminars

Date of Syllabus development

Syllabus developed by

23.09.2020

...Magdalena Wirzman...



	Signature of Head of teaching unit
	Prof. Maciej Dobrzyński, PhD,DSc
Signature of Faculty Dean	