



Integrated Pre-clinical Education 2nd year

1. IMPRINT

Academic Year	2026/2027
Department	Faculty of Medicine and Dentistry
Field of study	English Dentistry Division
Main scientific discipline	Medical science
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Full time program
Type of module / course	Obligatory
Form of verification of learning outcomes	Exam
Educational Unit / Educational Units	Department of Dental Propaedeutics and Prophylaxis, 59 Nowogrodzka str., 02-006, Warsaw, phone: 22 625 66 02, e-mail: zpips@wum.edu.pl
Head of Educational Unit / Heads of Educational Units	Leopold Wagner PhD, DDS
Course coordinator	Leopold Wagner PhD DDS, lwagner@wum.edu.pl
Person responsible for syllabus	Module Preclinical operative dentistry: Małgorzata Ponto-Wolska PhD DDS, malgorzata.ponto-wolska@wum.edu.pl Module Dental materials science: Krzysztof Wilk PhD DDS, krzysztof.wilk@wum.edu.pl Module Preclinical endodontics: Łukasz Zadrożny PhD DDS, lukasz.zadrozny@wum.edu.pl Module Preclinical prosthetics: Renata Lenkiewicz DDS, rlenkiewicz@wum.edu.pl, and Krzysztof Wilk PhD DDS, krzysztof.wilk@wum.edu.pl
Teachers	Małgorzata Ponto-Wolska PhD, DDS malgorzata.ponto-wolska@wum.edu.pl , Krzysztof Wilk PhD DDS, kwilk@wum.edu.pl, Łukasz Zadrożny PhD DDS, lukasz.zadrozny@wum.edu.pl, Renata Lenkiewicz DDS, rlenkiewicz@wum.edu.pl, Juliusz Rafałowicz DDS, juliusz.rafalowicz@wum.edu.pl

2. BASIC INFORMATION			
Year and semester of studies	II year, III and IV semester	Number of ECTS credits	9,50
FORMS OF CLASSES		Number of hours	ECTS credits calculation
Contacting hours with academic teacher			
Lecture (L)		30	1,2
Seminar (S)		34	1,3
Discussions (D)		-	-
e-learning (e-L)		-	-
Practical classes (PC)		101	4,0
Work placement (WP)		-	-
Unassisted student's work			
Preparation for classes and completions		75	3,0

3. COURSE OBJECTIVES	
C1	Module Dental materials science 1. Acquiring knowledge about dental office equipment and instruments used in various fields of dentistry. 2. Acquiring knowledge of basic and auxiliary dental materials and laboratory procedures. 3. Acquiring knowledge about the properties of the surface layers of tooth tissues and biomaterials. 4. Acquisition of knowledge regarding the degradation of biomaterials in oral conditions. 5. Acquiring the skills to use dental equipment and apparatus as well as the use of instruments. 6. Acquiring skills to work with auxiliary and basic materials.
C2	Module Preclinical operative dentistry 1. Obtaining knowledge of methods of using dental materials in conservative dentistry in the reconstruction of mineralized tissues. 2. Obtaining knowledge of the properties of mineralized tissues and preparation methods of adhesive systems. 3. Obtaining abilities to choose dental rebuilding materials based on their properties. 4. Obtaining abilities to use dental materials and adhesive systems for filling preparation in phantom models.
C3	Module Preclinical endodontics 1. Obtaining knowledge regarding performing endodontic procedures. 2. Obtaining knowledge of performing endodontic treatment at the phantom model. 3. Obtaining knowledge of tooth reconstruction after endodontic treatment at the phantom model.
C4	Module: Preclinical Prosthetics 1. Acquiring knowledge of the functional anatomy and biomechanics of the masticatory system, the anatomy of permanent teeth in terms of their function and position in the arch, the criteria for optimal functional occlusion, and adaptation, compensation, and feedback in the stomatognathic system. 2. Acquiring skills in spatial representation of the crown portions of teeth, with particular emphasis on occlusal planes.

	3. Acquiring skills in working with auxiliary and basic materials.
--	--

4. STANDARDS OF LEARNING – DETAILED DESCRIPTION OF EFFECTS OF LEARNING

Code and number of effect of learning in accordance with standards of learning	Effects in the field of preclinical science.
--	--

Knowledge – Graduate* knows and understands:

A.W1.	structures of the human body: cells, tissues, organs, and systems, with particular emphasis on the stomatognathic system;
A.W7.	anatomy of natural teeth;
C.W13.	concepts of homeostasis, adaptation, resistance, resilience, propensity, susceptibility, compensatory mechanisms, feedback, and the “vicious circle” mechanism;
C.W14.	the concepts of health and disease, the mechanisms of the onset and development of the disease process at the molecular, cellular, tissue, and systemic levels, and the influence of these mechanisms on the clinical symptoms of the disease, its complications, and prognosis;
C.W30.	biomechanics of the masticatory system;
C.W31.	definition and classification of basic and auxiliary dental materials;
C.W32.	composition, structure, properties, intended use and application of dental materials;
C.W33.	surface properties of hard dental tissues and dental biomaterials;
C.W34.	the phenomenon of adhesion and procedures for adhesive surface preparation of enamel, dentin, and dental biomaterials;
C.W35.	mechanisms of degradation (corrosion) of dental biomaterials in the oral cavity and their effects on the biological properties of dental materials;
C.W36.	basic clinical procedures for hard tissue reconstruction in teeth and endodontic treatment;;
C.W37.	basic methods and technical and laboratory procedures to produce prosthetic restorations;
F.W1.	phases of dental development, occlusal norms and deviations from norms, and anatomical and functional variability at different stages of individual life;
F.W4.	the relationship between morphological abnormalities and the function of the affected organs and systems, as well as clinical symptoms and diagnostic and treatment options;
F.W5.	principles of management of diseases of the pulp and mineralised dental tissues;
F.W7.	morphology of dental chambers and principles of endodontic treatment;
F.W21.	methods of rehabilitation of the masticatory organ;
F.W23.	principles of diagnosis, initial treatment, and prevention of functional disorders of the masticatory system;

Skills– Graduate* is able to:

C.U11.	prepare a carious cavity and restore missing mineralised tissues in a phantom tooth;
C.U12.	conduct endodontic treatment in a dental simulation setting;

Załącznik nr 4C do Procedury opracowywania i okresowego przeglądu programów studiów
(stanowiącej załącznik do zarządzenia nr 68/2024 Rektora WUM z dnia 18 kwietnia 2024 r.)

C.U13.	use adhesive application method;
C.U14.	select restorative, prosthetic, and adhesive biomaterials based on material properties and clinical conditions;
C.U15.	replicate anatomical occlusal relationships and perform occlusal analysis;
C.U16.	design prosthetic restorations;

5. ADDITIONAL EFFECTS OF LEARNING *(non-compulsory)*

Number of effect of learning	Effects of learning in time
------------------------------	-----------------------------

Knowledge – Graduate knows and understands:

K1	-
----	---

Skills– Graduate is able to:

S1	-
----	---

Social Competencies – Graduate is ready for:

SC1	-
-----	---

6. CLASSES

Form of class	Class contents	Effects of Learning
	Dental materials science module	
L1 – lecture 1	Basic and auxiliary materials. Division, requirements, and mechanical-physical, chemical, and functional properties of dental materials.	C.W31., C.W32.
L2 – Lecture 2	Impression materials. Digital methods for replicating the prosthetic substratum. Requirements, classification, and application of impression materials - composition, properties, processing, advantageous and disadvantageous characteristics, and methods of impression disinfection.	C.W32.
L3 – Lecture 3	Plasters. Types, classes, applications, and properties of stones, catalysts and inhibitors of the setting reaction, mixing, and casting the model. Model production using 3D printing technology.	C.W32.
L4 – lecture 4	Waxes and moulding masses. Composition, classification, properties, and application of dental waxes and masses. Methods for digitally designing prosthetic restorations.	C.W32.
L5 – lecture 5	Temporary dental materials. Base and liner materials: classification, composition, application, and properties of dental cements and polymers.	C.W31., C.W32
L6 – lecture 6-7	Permanent filling materials. Classification, composition, curing mechanism, properties, and application of composites, glass ionomers, and hybrid materials.	C.W31., C.W32.
L7 – lecture 8-9	Surface properties of mineralized tissues and dental biomaterials. Surface layer, surface, and coatings - definitions, properties, and role of coatings, surface layers, and surfaces. Surface engineering - influence of microstructure, phase composition, and residual stress on	C.W32., C.W33., C.W34., C.W35.

Załącznik nr 4C do Procedury opracowywania i okresowego przeglądu programów studiów

(stanowiącej załącznik do zarządzenia nr 68/2024 Rektora WUM z dnia 18 kwietnia 2024 r.)

	functional properties of surface layers. Technology for shaping the surface layer of biomaterials. Principles of processing polymer components.	
L8 – lecture 10	Surface phenomena and adhesion to hard dental tissues. Adhesive systems: classification, properties, and applications.	C.W33., C.W34.
L9 – lecture 11	Root canal filling materials. Requirements, classification, types, advantages and disadvantages, clinical application of sealers, canal cones, and retrograde filling materials. Gutta-percha is used cold and warm. Tooth whitening.	C.W32.
L10 – lecture 12	Abrasives and polishing materials. Auxiliary materials: polyester and metallic matrices, matrices, wedges, applicators.	C.W31., C.W32.
S1 – seminar 1-3	CAD/CAM technology. Devices, prosthetic field scanning, design, substructure fabrication (milling, sintering), custom modelling, and use of prefabricated semi-finished products.	C.W36., C.W37.
PC1 – Practical classes 1-9	Application of auxiliary materials. Creation of plaster models using rubber molds, mixing plaster and impression materials, taking an impression with alginate, casting a model from Class III plaster, and preparing the plaster model.	C.W29., C.W32., C.W37., C.U14, C.U16.
PC2 – Practical classes 10-21	Conversion of wax to acrylic. Modelling an upper canine in a 1:1 ratio using modelling wax, embedding the models in Class II plaster, scalding the wax, preparing the acrylic material, polymerizing the acrylic using the hot method, and mechanical processing of the acrylic models.	C.W32., C.W37., C.U14, C.U16.
PC3 – Practical classes 22-24	Materials used in conservative dentistry and endodontics. Preparation and mixing of materials for temporary, permanent and root canal filling in various forms: powder/liquid, powder/distilled water, paste/paste, capsules, syringes. Written test	C.W32., C.W37., C.U14, C.U16.
Preclinical operative Dentistry module		
L 11 - Lecture 13-14	Teeth restorations: principles, instruments, materials.	C.W29., C.W32., C.W36.
L 12 - Lecture 15-16	Restorations of anterior teeth: anatomy repetition, restorative techniques for I, II and V class cavities, instruments, special effects of incisal edge	C.W32., C.W36.
L 13 - Lecture 17-18	Restoration of posterior teeth: anatomy repetition, restorative techniques for I, II class cavities, instruments	C.W32., C.W36.
S2 – Seminar 4-5	Procedures in conservative dentistry. Procedures for using adhesive materials, materials and methods used for filling class V cavities, choosing the color of the filling material.	C.W32., C.W33., C.W34. C.W36.
S3 – Seminar 6	Procedures in conservative dentistry. Materials and methods used for filling class I cavities.	C.W32., C.W36., C.U14
S4 - Seminar 7	Procedures in conservative dentistry. Materials and methods used for filling class II cavities.	C.W32., C.W36., C.U14
S5 – Seminar 8	Procedures in conservative dentistry. Materials and methods used for filling class III cavities.	C.W32., C.W36., C.U14
S6 – Seminar 9	Procedures in conservative dentistry. Materials and methods used for filling class IV cavities. Written test	C.W32., C.W36., C.U14.
PC4 – Practical Class 25-30	Class I. Preparation of a cavity in a phantom tooth (low-fidelity simulator), application of adhesive techniques and placement of a composite filling, preparation of filling. Additional training sessions on Simodont VR simulators.	C.U11., C.U13., C.U14.

Załącznik nr 4C do Procedury opracowywania i okresowego przeglądu programów studiów

(stanowiącej załącznik do zarządzenia nr 68/2024 Rektora WUM z dnia 18 kwietnia 2024 r.)

PC5 – Practical Class 31-33	Class V. Preparation of two Class I cavities in phantom teeth (low-fidelity simulator), application of adhesive techniques and placement of a composite filling, and preparation of the fillings. Additional training sessions on Simodont VR simulators.	C.U11., C.U13., C.U14., C.U15.
PC6 – Practical Class 34-39	Class II. Preparation of a cavity in a phantom tooth (low-fidelity simulator), application of auxiliaries and adhesive techniques, placement of a composite filling, and preparation of the filling. Additional training sessions on Simodont VR simulators.	C.U11., C.U13., C.U14., C.U15.
PC7– Practical Class 40-45	Class III. Preparation of a cavity in a phantom tooth (low-fidelity simulator), application of auxiliaries and adhesive techniques, placement of a composite filling, and preparation of the filling.	C.U11., C.U13., C.U14., C.U15.
PC8– Practical Class 46-51	Class IV. Cavity preparation in a phantom tooth (low-fidelity simulator), use of ancillary accessories and adhesive techniques, placement of a composite filling, and preparation of the filling. Written test	C.U11., C.U13., C.U14., C.U15.
PC9– Practical Class 52-60	Class II. Cavity preparation in a phantom tooth (high-fidelity simulator), use of ancillary accessories and adhesive techniques, placement of a composite filling, and preparation of the filling.	C.U11., C.U13., C.U14., C.U15.
	Preclinical prosthetics module	
L 14- Lecture 19	Acrylic material. Composition, properties, applications, and polymerization methods of acrylic material, pressure-molded materials - procedures and applications.	C.W32., C.W36., C.W37.
L 15- Lecture 20-21	Methods of shaping metals in dentistry. Classification, composition, properties, and applications of metal alloys, introduction to casting technologies.	C.W32.
L 16 – Lecture 22	3D Printing in Dentistry: Basic Concepts of Digital Prosthetic Design	C.W32., C.W37.
L 17- Lecture 23-24	Dental ceramics. Classification by application, processing methods, melting point, structure, and composition, as well as properties and laboratory procedures.	C.W32., C.W36., C.W37.
S7 – Seminar 10	Thermally formed materials. Types, applications, and laboratory procedures.	C.W37.
S8 – Seminar 11-13	Procedure for converting wax to acrylic and metal. Polymerization, polycondensation, and casting technologies.	C.W37.
S9 – Seminar 14-16	Surface degradation of materials in the oral cavity. Surface preparation of base materials, electropolishing, and biological inertness. Written test.	C.W33., C.W35.
S7 – Seminar 10	Mandibular articulation states: compensation curves, mandibular rest position, vertical dimension of occlusion and methods of determining it, centric relation - registration methods, mandibular position in centric relation vs. Habitual occlusion, mandibular and dental guidance, the concept of mutually protective articulation, and biomechanics of the temporomandibular joints.	C.W30.
S8 – Seminar 11-13	Norms and types of occlusion: ideal and optimal occlusion, tooth contacts and occlusal surfaces and their characteristics, occlusal forces and their distribution in the stomatognathic system, concepts of occlusion in natural dentition and full dentures, the concept of simplified occlusal contacts in implant prosthetics	C.W30.
S9 – Seminar 14-16	Introduction to dental morphology in terms of function: spatial (3D) reconstruction of the coronal portion of selected teeth with particular	C.W30.

Załącznik nr 4C do Procedury opracowywania i okresowego przeglądu programów studiów

(stanowiącej załącznik do zarządzenia nr 68/2024 Rektora WUM z dnia 18 kwietnia 2024 r.)

	emphasis on occlusal planes.	
S10 – Seminar 17-19	The stomatognathic system - components and functions of the stomatognathic system and their morphological and functional connections; the functional circle of the stomatognathic system.	A.W1
S11 – Seminar 20-22	Compensation curves; differences in the biomechanics of natural teeth and dental implants; mandibular rest position, centric and eccentric occlusion.	C.W30., F.W1.
S12 – Seminar 23-25	Occlusion and intra-articular relations: centric relation and methods of its improvement; concepts of ideal, optimal and habitual occlusion; occlusion norms.	C.W30., F.W1.
S13 – Seminar 26-28	Reflex and adaptive mechanisms in the stomatognathic system: the concepts of compensation and adaptation; the state of articulatory balance and the consequences of its disruption; compensation in the progressive loss of teeth; methods of adaptation to occlusal disorders.	C.W13., F.W1.
S14 – Seminar 29-31	Biomechanics of the temporomandibular joints.	C.W30.
S15 – Seminar 32-34	Prevention of functional disorders of the masticatory system: parafunctions; etiology and symptoms of masticatory system dysfunctions; compensated and uncompensated occlusal disorders.	C.W14., E.W4.
S16 – Seminar 35-37	Prevention of functional disorders of the masticatory system: functional analysis of the masticatory system; principles and methods of occlusal therapy; local prevention of masticatory dysfunction.	E.W4., F.W21., F.W23.
S17 – Seminar 38-40	Occlusion in morphological and functional disorders: general mechanisms of occlusion formation in individual development; an outline of the etiology of malocclusions; a simplified classification of malocclusions, considering occlusal contacts and functional disorders; general principles of malocclusion rehabilitation.	C.W14., E.W4.
S18 – Seminar 41-43	Instrumental articulation systems: types of articulators and facebows; methods of programming a semi-individual articulator. Written test.	C.W30.
S19 – Seminar 44-48	Introduction to classes on dental morphology in terms of function: spatial (3D) reconstruction of the coronal part of selected teeth with particular emphasis on occlusal planes.	C.W30., A.W7.
PC10– Practical Class 61-63	The use of thermoformed materials. Making a teeth whitening tray from thermoformed material.	C.W32., C.W37., C.U14, C.U16.
PC11– Practical Class 64-66	Conversion of wax to metal. Modelling the framework of a metal crown using casting wax, embedding it in a refractory mass, and mechanical processing of the cast.	C.W32., C.W37., C.U14, C.U16.
PC12– Practical Class 67-68	Teeth morphology in the aspect of the function: spatial reproduction (3D) of the crown part of selected fangs in the plastic material, with particular emphasis on occlusive surfaces.	C.U15.
PC13– Practical Class 69-71	Teeth morphology in the aspect of the function: spatial reproduction (3D) of the crown part of selected premolars in the plastic material, with particular emphasis on occlusive surfaces.	C.U15.
PC14– Practical Class 72-74	Teeth morphology in the aspect of the function: spatial reproduction (3D) of the crown part of selected molars in the plastic material, with particular emphasis on occlusive surfaces	C.U15.
	Preclinical endodontics module	
L18- Lecture 25	Pulp diseases. Aetiology, diagnosis, and prevention of pulp diseases.	F.W5., F.W7.

(stanowiącej załącznik do zarządzenia nr 68/2024 Rektora WUM z dnia 18 kwietnia 2024 r.)

L19 - Lecture 26	Tooth restoration after endodontic treatment. Indications and contraindications to conservative treatment, materials, and clinical procedures.	C.W36.
L20 - Lecture 27-28	Materials and methods used in endodontic treatment.	F.W7., C.W32., C.W36.
L21 - Lecture 29-30	Materials and methods applied for root canal obturation. Single cone method, lateral and vertical condensation, thermoplastic methods.	F.W5., F.W7.
S20 – Seminar 49-51	Instruments used for mechanical canal preparation. Steel and NiTi instruments, procedures for using hand, machine, and ultrasonic instruments.	F.W5., F.W7.
S21 – Seminar 52-54	Chambers and canals morphology in different teeth groups.	A.W7.
PC15– Practical Class 75-80	K- and H-file technique for straight canals. Mechanical preparation of straight canals on phantom blocks.	C.U12.
PC16– Practical Class 81-84	Steel-instrument technique for curved canals. Preparation of curved canals on a phantom model - complications (elbow, zip, and ledge preparation).	C.U12
PC17– Practical Class 85-97	Unclogging and mechanically preparing canals using various techniques. Preparation of canals on phantom blocks using the step-back and traditional methods. Root canal obturation methods.	C.U12.
PC18– Practical Class 98-101	Root canal obturation methods. Obturation using the single-point method, lateral condensation, and warm gutta-percha. Restoration of a tooth after endodontic treatment on a phantom model. Written test	C.U12., C.U13

7. LITERATURE

Obligatory

Module Dental materials science

1. Dental materials: properties and manipulation. Powers JM, Wataha JC. St. Luis. Mosby/Elsevier. 2013
2. Craig's restorative dental materials. Sakaguchi RL, Powers JM. Philadelphia. Elsevier Mosby. cop. 2012

Module Preclinical operative Dentistry

1. Sturdevant's Art&Science of Operative Dentistry, 7th edition, Roberson T.M., Heymann H.O., Swift E.J., Mosby, St.Louis 2018,
2. Essentials of Dental Caries, Fourth Edition Edwina Kidd and Ole Fejerskov, Oxford University Press, Oxford 2016

Module Preclinical prosthetics

1. Wheeler's Dental Anatomy, Physiology and Occlusion. Nelson S.J., Ash M.M. Saunders/Elsevier 2020
2. Management of Temporomandibular Disorders and Occlusion. Okeson J.P. Mosby/Elsevier 2019

Module Preclinical endodontics

1. Clinical endodontics. A textbook 3rd Edition. Tronstad L. Georg Thieme Verlag. 2009

Supplementary

1. Applied dental materials. McCabe JF, Walls AWG. Oxford. Blackwell Publishing. corp. 2008
2. Essentials of Operative dentistry. Sherwood IA. Jaypee Brothers Medical Publishers. 2010
3. Applied occlusion. Wassel R., Naru A., Steele J., Nohl F. 2015 Quintessence Publishing
4. Recent literature via pubmed.com

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
	Dental materials science module	

Załącznik nr 4C do Procedury opracowywania i okresowego przeglądu programów studiów

(stanowiącej załącznik do zarządzenia nr 68/2024 Rektora WUM z dnia 18 kwietnia 2024 r.)

C.W31., C.W32., C.W33., C.W34., C.W35., C.W37., C.U14., C.U16.	2 written colloquium (each at 10 descriptive questions)	Each question is scored on a scale of 0-1 points. Passing the colloquium's requires a minimum of 12 points (minimum 6 points from each test).
C.U14., C.U16	Observation and assessment of practical skills	Positive evaluation of each completed task.
	Preclinical operative Dentistry module	
C.W32., C.W33., C.W34. C.W36., C.U11., C.U.13., C.U14.,C.U15.	Written colloquium (5 descriptive questions)	Achieving the expected learning outcomes of at least 55%
C.U11., C.U.13., C.U14., C.U15.	Observation and assessment of practical skills	Positive evaluation of each completed task.
	Preclinical prosthetics module	
C.W30., C.W32., C.W33., C.W35., C.W36., C.W37.	Written colloquium (10 questions)	Each question is scored on a scale of 0 to 1 point. A minimum score of 6 points is required to pass.
A.W1., A.W7., C.W13., C.W14., C.W30., E.W1., F.W21, F.W23	MCQ test, 50 multiple choice questions with 4 distractors.	Obtaining at least 60% of the test points.
C.U14., C.U15., C.U16.	Observation and assessment of practical skills	Positive evaluation of each completed task.
	Preclinical endodontics module	
A.W7., F.W5., F.W7., C.W36.	Single choice test (10 questions online on the e-learning platform)	Achieving the expected learning outcomes of at least 55%
C.W36.,C.U12., C.U13.	Written colloquium (5 descriptive questions)	Each question is scored on a scale of 1 to 3 points. Passing requires achieving at least 9 points.
C.U12., C.U13.	Observation and assessment of practical skills	Positive evaluation of each completed task.
C.U11., C.U12., C.U14., C.U16.	2-part practical examination (OSCE): part 1 in the winter semester - 4 stations (2 each from the materials science and pre-clinical conservative dentistry modules) and part 2 in the summer semester - 4 stations (2 each from the preclinical endodontics and prosthetics modules).	Depending on the module, you can get from 3 to 9 points for the tasks. The exam is passed if you get at least 55% of the points and a positive assessment of each completed task. The points obtained from both parts of the OSCE are added together. In the event of obtaining more than 55% of the points, in the absence of a positive assessment of all the tasks, the retake is treated as a supplement to the 1st term. Obtaining less than 55% of the points results in an insufficient

		grade in the 1st term. The OSCE retake exam concerns only the completion of the tasks that did not receive a positive assessment.
A.W1., A.W7., C.W13.C.W14., C.W30. C.W31. C.W32., C.W33., C.W34., C.W35., C.W36., C.W37. E.W1., F.W4., F.W5., F.W7, F.W21., F.W23.	Electronic test exam (single choice test) in the summer session – 75 questions covering topics from 5 modules - ergonomics, materials science, preclinical conservative dentistry, preclinical endodontics and preclinical prosthetics. The exam takes place in a computer room at the Didactic Center of the Medical University of Warsaw or an examination room at the Medical Simulation Center. The final grade in the Integrated Preclinical Education subject is the average of the grades from the practical and theoretical parts, provided that a positive grade is obtained in both exams.	Grading scale: 2 (< 65%), 3 (66 – 72%), 3,5 (73 -79%), 4 (80-86%), 4,5 (87-93%) i 5 (94-100%).

9. ADDITIONAL INFORMATION

Persons responsible for teaching: Pre-clinical conservative dentistry: Małgorzata Ponto-Wolska, DDS. PhD, malgorzata.ponto-wolska@wum.edu.pl, Dental materials science: Krzysztof Wilk, DDS. PhD, kwilk@wum.edu.pl, Pre-clinical endodontics: Łukasz Zadrozny, DDS, PhD, lukasz.zadrozny@wum.edu.pl, Pre-clinical prosthetics module: Krzysztof Wilk, DDS. PhD, kwilk@wum.edu.pl and Renata Lenkiewicz DDS, rlenkiewicz@wum.edu.pl

Completion of the course: weighted average of grades from individual modules with equal importance (50%) of knowledge and skills, provided that a positive grade is obtained for all partial passes and practical tasks.

The condition for passing the course is participation in all lectures, seminars and exercises. In each block, absence from 1 lecture, seminar and exercise is allowed. To excuse an absence from a class, a student must notify the course coordinator or another person designated by the unit head by email or in writing no later than three business days after the class. Late submission of an excuse is acceptable if the student was unable to provide it for legitimate reasons; in such a case, the document should be submitted once the reason for the absence ceases.

A student who receives a negative grade for a partial pass is entitled to 2 resist dates.

Admission to the MCQ test requires attendance at all seminars. A single absence is permitted, provided a doctor's note is submitted within three days of the event. Lateness of more than 15 minutes is considered an absence. The method of making up for absences is agreed upon with the instructor.

Passing the tutorials requires a passing grade for each completed assignment. In the event of absence, the scheduled assignments must be completed the following week, or the class must be made up with a different group. Students may also report to the instructor during their office hours.

Passing all modules is a condition for admission to the practical and theoretical exams.

Passing the course is a condition for taking the exam, scheduled outside the exam period.

Students are entitled to three exam dates, the second and third of which are retake dates.

In the case of a second retake date, the student may request the Dean to have an observer designated by the student government participate in the exam. The Dean may grant permission for a student to take a board examination if justified concerns are raised regarding the conduct of the examination.

In justified circumstances, a student may be up to 15 minutes late for class.

Cell phones or other electronic devices are not permitted during classes, and students may only bring items approved by the instructor into the classroom.

Students must wear an apron, disposable gloves, have their hair or a cap tied up, and change their shoes.

Student Research Group at the Department of Dental Propedeutics and Prophylaxis, supervised by Dr. Łukasz Zadrozny, MD, email: lukasz.zadrozny@wum.edu.pl

Department website: <https://propedeutyka-stomatologiczna.wum.edu.pl>

Medical University of Warsaw has property rights, including copyright, to the syllabus. The syllabus may be used for educational purposes at the MUW only. Using of the syllabus for other purposes requires consent of the MUW.

ATTENTION

The final 10 minutes of the last class in the block/semester/year should be allocated to students'

Survey of Evaluation of Classes and Academic Teachers