Integrated Pre-clinical Education

1. IMPRINT

Academic Year	2026/2027
Department	Faculty of Medicine and Stomatology
Field of study	Medicine and Dentistry
Main scientific discipline	Medical science
Study Profile	General academic
Level of studies	Uniform MSc
Form of studies	Extramural study (paid)
Type of module / course	Obligatory
Form of verification of learning outcomes	Completion
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 DMD
Course coordinator	Leopold Wagner PhD DMD, lwagner@wum.edu.pl
Person responsible for syllabus	Małgorzata Ponto-Wolska DMD, PhD, malgorzata.ponto-wolska@wum.edu.pl
Teachers	Małgorzata Ponto-Wolska DMD, PhD, malgorzata.ponto-wolska@wum.edu.pl Juliusz Rafałowicz, DMD, jrafalowicz@wum.edu.pl

2. BASIC INFORMATION

Year and semester of studies	I year, II semester	**Number of ECTS credits**	2,00

FORMS OF CLASSES **Contacting hours with academic teacher**	**Number of hours**	**ECTS credits calculation**
Lecture (L)	8	0,26
Seminar (S)	4	0,14
Classes (C)	18	0,6
e-learning (e-L)	-	-
Practical classes (PC)	-	-
Work placement (WP)	-	-
Unassisted student's work		
Preparation for classes and completions	30	1

3. COURSE OBJECTIVES

O1	Obtaining knowledge about the equipment of dental offices and instruments used in dental procedures
O2	Obtaining knowledge concerning etiology, ergonomics, and OSH (occupational health and safety).
O3	Obtaining knowledge on ergonomic principles of treatments and dental work in a team.
O4	Obtaining abilities in work in a dental team according to ergonomic standards and OSH rules.
O5	Obtaining abilities in recognizing harmful and burdensome factors in dental surgery.

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

Code and number of the effect of learning in accordance with standards of learning	**Effects in the field of:** *(in accordance with appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019)*
Knowledge – Graduate* knows and understands:	
C.W5.	basics of disinfection, sterilization and aseptic procedures
C.W6.	risk factors: external and internal, modifiable and non-modifiable

C.W27.	principles of ergonomic organization of work in a dental office and conducting dental procedures
C.W28.	principles of occupational health and safety in dentistry
C.W29.	dental office and dental laboratory equipment, instruments used in dental procedures and in the dental laboratory during prosthetic and orthodontic appliances restorations
G.W10.	etiology of occupational diseases specified in legal regulations, including those related to practicing the profession of a dentist
Skills– Graduate* is able to:	
C.U9.	work in accordance with the principles of ergonomic work organisation
C.U10.	choose the right instruments for a dental procedure
G.U8.	recognize risk factors and exposures related to occupational disease, especially dentists
G.U20	organize the work environment in a way that ensures the safety of the patient and other people, considering the influence of human factors and ergonomic principles

** In appendix to the Regulation of Minister of Science and Higher education from 26th of July 2019 „graduate", not student is mentioned.*

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

Number of effect of learning	**Effects in the fields of:**
Knowledge – Graduate knows and understands:	
K1	
K2	
Skills– Graduate is able to:	
S1	
S2	
Social Competencies – Graduate is ready for:	
SC1	
SC2	

6. CLASSES

Form of class	**Class contents**	**Effects of Learning**

L1 - Lecture 1-3	Ergonomic work in dental office basics. Basic concepts and requirements for ergonomics, adaptation of the room for dental office, requirements for the staff and patient expectations and responsibilities of the members of the dental team, working rules at two, four and six hands while lying patient, using rubber dam, types of clasps, and methods of use in different clinical situations.	C.W27., C.U9., G.U20.
L2 - Lecture 4	Transfer of dental instruments, work with saliva evacuator. Keeping the instruments and their transfer, one-handed and two-handed, methods of holding the saliva ejector.	C.W27., C.U9.
L3 – Lecture 5-6	The rules of aseptic and antiseptic in the dental office. Disinfection and sterilization, keeping sterile tools and materials, segregating waste, hand hygiene, using protective clothing and personal protective equipment, proceeding in the case of exposure to blood and other contaminated materials in the dental office.	C.W5., C.W6., G.U20.
L4 – Lecture 7-8	OSH (occupational health and safety) in the dental office. Concepts in the field of occupational health and safety, principles of individual protection, dependence on human health and life. Occupational diseases of the dentist. Cross infections.	C.W5., C.W6., C.W28., G.U8., G.W10.
S1 – Seminar 1-2	The rules of cooperation of the dental team in different departments of dentistry. Work zones, class of movements, working with the patient in sitting and lying position, zones of support, work rules at two, four and six hands while lying patient, the role of assistant, dental hygienist, different fields of dentistry, treatment.	C.W27., C.U9.
S2 – Seminar 3-4	The risk for human health and life-related to dental work, work-related illnesses, and condition for cross-infection. Concepts in the field of occupational health and safety, principles of individual protection, dependence on human health and life. Occupational diseases of the dentist.	C.W5., C.W6., C.W28., G.U8., G.W10.
PC1 – Practical Class 1-6	Equipment in the dental office. Ergonomics in the dental office. Requirements of technical and building for a dental office. Basic and additional equipment in dental practice. Written test.	C.W27., C.W29., C.U9.
PC2 – Practical Class 7-8	The rules of cooperation of the dental team in different departments of dentistry. Work zones, class of movements, working with the patient in sitting and lying position, zones of support, work rules at two, four and six hands while lying patient.	C.U9., C.W27.
PC3 – Practical Class 9-10	Aseptic and antiseptic in the dental office. Disinfection and sterilization, keeping sterile tools and materials, segregating waste, hand hygiene, using protective clothing and personal protective equipment, proceeding in the case of exposure to blood and other contaminated materials in the dental office.	C.W5., C.W28., GU20.
PC4 – Practical Class 11-14	Techniques to keep dry area during treatment. Wearing rubber dam in case of conservative treatment (front teeth, premolars, and molars), professional teeth whitening treatments and endodontics.	C.U9., C.U10., C.W27.
PC5 – Practical Class 15-16	Techniques to keep dry area during treatment. Wearing rubber dam in case of conservative treatment (front teeth, premolars, and molars), professional teeth whitening treatments and endodontics. High fidelity simulators, medical simulation center.	C.U9., C.U10., C.W27.
PC6 – Practical Class 17-18	Techniques to keep dry area during treatment. Wearing rubber dam in case of conservative treatment (front teeth, premolars, and molars),	C.U9., C.U10., C.W27.

	professional teeth whitening treatments and endodontics. Practical assessment.	

7. LITERATURE

Obligatory

1. Sturdevants Art&Science of Operative Dentistry, 7th edition, Roberson T.M., Heymann H.O., Swift E.J., Mosby, St.Louis 2018
2. Ergonomics and the dental care worker. Murphy DC. Washington. American Public Health Association. cop. 1998

Supplementary

8. VERIFYING THE EFFECT OF LEARNING

Code of the course effect of learning	Ways of verifying the effect of learning	Completion criterion
C.W5., C.W6., C.W27., C.W28., C.U9., G.U8., G.W10.	MCQ - 10 questions.	Achieving the expected learning outcomes of at least 60%
C.U9., C.U10., C.W27.	Observation and assessment of practical skills	Positive assessment of each completed task
C.U9., C.U10., C.W27.	Practical assessment in the form of individually performed tasks.	Achieving the expected learning outcomes of at least 55%

9. ADDITIONAL INFORMATION

The person responsible for teaching: Małgorzata Ponto-Wolska, MD, PhD malgorzata.ponto-wolska@wum.edu.pl.
Completion of the course: weighted average of grades with equal importance (50%) of knowledge and skills, provided that a positive grade is obtained for all partial passes and practical tasks.
Lectures include the latest information in work ergonomics and occupational health and safety.
The condition for passing the course is participation in all lectures, seminars and exercises. Absence from 1 lecture, seminar or exercise is allowed. In case of absence due to health reasons, the student is obliged to provide a medical certificate within 7 days.
A student who receives a negative grade for a partial pass is entitled to 2 retakes.
Passing the exercises requires obtaining a positive assessment of each completed task. In case of absence, you must complete the planned tasks in the next week of classes. The student may also report to the academic teacher in charge during his/her duty hours.
The practical credit in the form of individually performed OSCE-type tasks requires obtaining at least 55% of the points and a positive grade for each completed task. In the case of obtaining more than 55% of the points, but without a positive grade in all tasks, the resit is treated as a continuation of the first attempt without increasing the number of points previously achieved. Obtaining less than 55% of the points results in a failing grade in the first attempt. The resit applies only to the tasks that did not receive a positive grade. Grading scale: 2 (< 55%), 3 (55–63%), 3.5 (64–72%), 4 (73–81%), 4.5 (82–90%), and 5 (91–100%). The theoretical credit in the ergonomics module (together with the modules completed in the 2nd year of studies) is conducted in the form of a single-choice test in the computer lab at the Didactic Center of the Medical University of Warsaw or in the examination hall at the Medical Simulation Center during the summer session of the 2nd year of studies. In a justified situation, a student may be late for classes up to 15 minutes.
It is forbidden to use cell phones or other electronic devices during the classes if not needed for educational projects, the student may bring to the classroom only things permitted by the teacher. A student in the training room must wear an apron, disposable gloves, a surgical mask, pinned hair or a cap, and indoor footwear.
Student Scientific Club at the Department of Propaedeutics and Dental Prophylaxis, supervisor: Łukasz Zadrożny, MD, PhD, e-mail: lukasz.zadrozny@wum.edu.pl
Department's website: https://propedeutyka-stomatologiczna.wum.edu.pl

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ATTENTION

The final 10 minutes of the last class of the block/semester/year should be allotted for students to fill out the Survey of Evaluation of Classes and Academic Teachers