

Syllabus for academic year: 2021/2022													
Training cycle: 2021/2022-2025/2026													
Description of the course													
Course	Ergonomia stomatologiczna Ergonomics												
												Group of detailed education results	Group code B, D, G
Faculty	Dentistry												
Major	dentistry												
Level of studies	<input checked="" type="checkbox"/> uniform magister studies												
Form of studies	<input checked="" type="checkbox"/> full-time <input type="checkbox"/> part-time												
Year of studies											Semester:	<input checked="" type="checkbox"/> summer	
Type of course	<input checked="" type="checkbox"/> obligatory												
Language of study	<input checked="" type="checkbox"/> English												
Number of hours													
Form of education													
	Lectures (L)	Seminars (SE)	Auditorium classes (AC)	Major Classes – not clinical (MC)	Clinical Classes (CC)	Laboratory Classes (LC)	Classes in Simulated Conditions (CSC)	Practical Classes with Patient (PCP)	Foreign language Course (FLC)	Physical Education (PE)	Vocational Practice (VP)	Directed Self-Study (DSS)	E-learning (EL)
Department of Pedodontic Dentistry and Preclinical Dentistry												30	
Direct (contact) education		15		15									
Distance learning													
Educational objectives													
G1. To familiarize students with the specifics and ergonomics in the dental practice.													
G2. To familiarize students with the sanitary-epidemiological principles related to the work safety.													
Education result for course in relation to verification methods of the intended education result and the type of class:													
Number of detailed education result	Student who completes the course knows/is able to							Methods of verification of intended education	Form of didactic class <i>*enter the abbreviation</i>				



		results	
D.U14	In terms of skills the graduate is able to: plan the work of a dentist's team and the equipment for the dentist's office in accordance with the principles of ergonomics and occupational safety.	Presentation, oral response, test	SE, MC
G.W18	In terms of knowledge the graduate knows and understands: the principles of ergonomic work organization I dentist's offices and performing dental procedures.	Presentation, oral response, test	SE, MC
G.U20	In terms of skills the graduate is able to: work in line with the ergonomic work organization principles.	Presentation, oral response, test	SE, MC
B.W13	In terms of knowledge the graduate knows and understands: the principles of operation of dental equipment.	Presentation, oral response, test	SE, MC

* L- lecture; SE- seminar; AC- auditorium classes; MC- major classes (non-clinical); CC- clinical classes; LC- laboratory classes; CSC- classes in simulated conditions; PCP- practical classes with patient; FLC- foreign language course; PE- physical education; VP- vocational practice; DSS- directed self-study; EL- E-learning

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

Student's workload (class participation, activity, preparation, etc.)	Student Workload
1. Number of hours of direct contact:	30
2. Number of hours of distance learning:	
3. Number of hours of student's own work:	15
4. Number of hours of directed self-study	
Total student's workload	45
ECTS points for course	2

Content of classes:

Lectures

Seminars

- Ergonomics as a science. Ergonomics in Dentistry, Report of Herluf Scovsgaard. Ergonomic Report for XO Dental.
- Ergonomics in Dental Office: a. proper work organization; b. c. concepts for ergonomic work.
Preparation for the ergonomic work in a dental office:
 - proprioceptive derivation (PD) concept;
 - exercise for pd concept;
 - proper patients position;
 - support degrees, dentists body posture during procedures.
 Different working models:
 - solo, 2 hands dentistry;
 - duo, four hands dentistry;
 - six hands working model.
- Basic rules and definitions in ergonomics:
 - teeth sectors;



- b) movement classifications;
 - c) field of vision;
 - d) 5 changes rule (by Paul);
 - e) working zones for dental team;
 - f) controlling fingers, controlling soft tissues.
- Proper instrumentation and holding instruments.

4. Epidemiology of diseases that could be transmitted in dental office. Measures of prevention of cross contamination in dental office. Disinfection and sterilization of the dental equipment, methods of control and documentation. Credits for seminars 1-4.

Etiology of diseases connected with working in dental team, ways of prevention.

Modern equipment, dental instruments. OHS. Organization of dental practice with the ergonomics rules.

X-ray in dental practice.

5. Practical exercises. Summary. Credits.

Classes

1. Dental tools, diagnostic kit, sterilization packages, basics of performing a patient check-up in line with the principles of ergonomic work.
2. Dentist's correct posture during performing dental procedures.
3. Positioning the patient in order to obtain the best possible view into the surgical field depending on the location of the treated surface. Principles of work in magnification.
4. Preventive and relaxing exercises for dentists. Ergonomic posture for patients from specific groups (pregnant woman, small child, obese person, patient with a spine disorder) - patient's position and the position of the doctor.
5. Summary and consolidation of acquired practical skills.

Basic literature

1. Ergonomics and the Dental Care Worker, Denise Murphy PhD, American Public Health Association (June 1998).
2. Four-Handed dentistry. A handbook of clinical application and ergonomic concepts. Betty Landley Finkbeiner, Upper Saddle River, New Jersey, 2001.

Preliminary conditions:

Completion of dental modeling after semester I.

Conditions to receive credit for the course:

1. Positively crediting the test/essay.
2. Subject Ergonomy is the part of the OSCE exam allowing student to exercise on clinical tutorials after the 4th semester.

	Criteria for courses ending with a credit^a
Credit	Participation in seminars, preparation of a presentation, positive result of a final test, active participation in practical exercises

Unit realizing the course:	Department of Pedodontic Dentistry and Preclinical Dentistry
Unit address:	ul. Krakowska 26
Telephone:	71 784 03 61
E-Mail:	stomdzieci@umed.wroc.pl



Person responsible for the course:	Maciej Dobrzyński, DDS, PhD, Assoc. Prof.			
Telephone:	71 784 03 61			
E-Mail:	maciej.dobrzynski@umed.wroc.pl			
List of persons conducting specific classes:				
Name and surname	Degree/scientific or professional title	Discipline	Performed profession	Form of classes
Michał Biały	PhD		dentist	Seminars, preclinical exercises
Maciej Dobrzyński	DDS, PhD, Assoc. Prof.	Medical science	dentist	Preclinical exercises

Date of Syllabus development

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Syllabus developed by

.....

Dean's signature

Uniwersytet Medyczny we Wrocławiu
WYDZIAŁ
LEKARSKO-STOMATOLOGICZNY
DZIEKAN

prof. dr hab. Marcin Mikulewicz

Signature of Head(s) of teaching unit(s)

Uniwersytet Medyczny we Wrocławiu
Wydział Lekarsko-Stomatologiczny
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KATEDRA I ZAKŁAD
STOMATOLOGII DZIECIECIEJ
I STOMATOLOGII PRZEDKLINICZNEJ
Kierownik

dr hab. n. med. Maciej Dobrzyński, profesor uczelni