



Online learning (asynchronous)																		
TOTAL per year:																		
Direct (contact) education					30													
Online learning (synchronous)		40			30													
Online learning (asynchronous)																		
Educational objectives (max. 6 items) <ol style="list-style-type: none"> 1. Knowledge of normal occlusion at each stage of human development. 2. Getting to know the most frequently occurring malformative syndromes involved in the occurrence of disorders within the masticatory system. 3. Ability to distinguish between a norm and a pathology at different stages of human development and knowledge of the etiopathogenesis of these disorders 4. Getting to know orthodontic diagnostics according to Orlik-Grzybowska and AS, CK, Wermann-Proffit, and the ability to identify individual malocclusions according to Orlik-Grzybowska and AS, CK, Wermann-Proffit. 5. Ability to conduct an interview and a physical examination of the patient, make diagnostic impressions and analyse x-ray images. 6. Ability to make an orthodontic diagnosis. 																		
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 <i>**enter the abbreviation</i>						
W 01	F.W1	Describes the development of the masticatory system.				<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota						S, CC, W, SE						
W 02	F.W1	Knows the normal occlusions at different stages of life as well as derivations from the norm.				<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota						S, CC, W, SE						
W 03	F.W2 F.W7 F.W18	Has the ability to enumerate the etiopathogenetic factors of dental-occlusal disorders within the masticatory system.				<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test						S, CC, W, SE						



			- practical quota	
W 04	F.W2	Describes various malformative syndromes and indicates the reason for their occurrence.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W, SE
W 05	F.W1	Enumerates the types of dental-occlusal disorders of the masticatory system according to the taxonomy by Orlik-Grzybowska and AS, CK, Wermann-Proffit.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W, SE
W.06	F.W21	Knows the principles of radiological diagnosis in the field of dental-occlusal defects.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W, SE
W.07	C.W5.	Knows the basics of disinfection, antiseptic procedures; (microbiology, microbiology of the oral cavity, all clinical dental instruments)	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W
U 01	F.U1 F.U2 F.U21	Distinguishes dental-occlusion defects from normal changes at different stages of development. Has the ability to examine the patient: interview, extraoral and intraoral examination.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W, SE
U 02	F.U1 F.U2 F.U21	Differentiates between patient profile types according to Schwarz, Izard and RiS, CK, Wetts.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W
U 03	F.U6 E. U4	He can analyse models and radiological documentation of an RVG, a panoramic radiograph, a lateral image of the skull.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test	S, CC, W, SE



			- practical quota	
U 04	F.U3 F.U4	Has the ability to identify the malocclusion occurring in the examined patient. Has the ability to provide the patient with information on the dental-occlusal disorders affecting him/her.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W
U 05	F.U13 F.U14 F.U15 G.U19 G.U39 G.U40 E.U1 E.U2 E.U17	Makes a full orthodontic diagnosis and has the ability to confirm or rule out the influence of environmental factors on the aetiology of the disease. Runs medical documentation.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W
K 01	D.U13 D.U14	Demonstrates responsibility for his/her own professional development and contribution to the further development of medical science; recognizes his/her own diagnostic limitations and educational needs, and plans educational activities.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W
K 02	G.U16	Has the ability to work in a team and lead a team in a dentist's office; is capable of working in a team of professionals, in a multicultural and multinational environment.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W
K 03	K 03	Introduces the principles of professional camaraderie and cooperation with representatives of other professions in the field of healthcare.	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W
K 04	K 04	Respects medical confidentiality and patient rights	<u>Forming methods:</u> - evaluation of student's activity in class - evaluation of student's preparation for classes - smaller tests throughout the course <u>Summarizing methods:</u> - final test - practical quota	S, CC, W

** 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: 5	
Social competences: 4	
Student's amount of work (balance of ECTS points)	
Student's workload (class participation, activity, preparation, etc.)	Student Workload (h)
1. Contact hours:	30
2. Online learning hours (e-learning):	70
3. Student's own work (self-study):	30
Total student's workload	130
ECTS points for module/course	5,5
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:	
1-2. Introduction to the course, requirements for completion, rules of procedure. Occupational health and safety rules for working with orthodontic patients. Physical examination and analysis of the patient's medical history, preparation of photographic documentation.	
3-4. Development and growth of the masticatory system. Theories of craniofacial development.	
5-6. Intraoral examination, facial and profile norms	
7-8. Diagnosis and classification of malocclusion according to AS, CK, Wermann-Proffit. Malocclusion diagnostics according to Orlik-Grzybowska	
9-10. Occlusal and functional norms at different stages of ontogeny	
11-12. X-ray diagnostics – RVG, computed tomography, teleroentgenogram of the head, panoramic X-ray, bone age and dental age	
13-14. Orthodontic biomechanics	
15-16. Materials science in orthodontics	
17-18. Removable braces	
19-20. Fixed braces	
21-22. Orthodontic-surgical interdisciplinary treatment	
23-24. Orthodontic-prosthetic and orthodontic-periodontal interdisciplinary treatment	
25-26. Treatment of cleft lip and cleft palate	
27-28. Interdisciplinary treatment of congenital disorders	
29-30. Final test	
Practical (clinical) classes	
1. Introduction to classes, course credit requirements, regulations. Health and safety while working with the patients. Clinical examination in orthodontics.	
2. Occlusion at different stages of development.	
3. Extraoral examination, facial features and profile.	
4. Radiographic assessment – panoramic radiographs.	
5. Model analysis.	
Online classes	
1. Ackerman-Proffit malocclusion classification. Dental anomalies	
2. Class II, Class III malocclusions	
3. Vertical malocclusions.	
4. Transversal malocclusions.	
5. Radiographic assessment – periapical radiographs, CT, lateral cephalometric radiographs.	
6. Skeletal and dental age.	
7. Biomechanics in orthodontics.	
Other	



<p>Basic literature (list according to importance, no more than 3 items)</p> <ol style="list-style-type: none"> 1. An introduction to orthodontics -3rd ed.- Laura Mitchell 2. Orthodontics: Diagnosis and Management of malocclusion and dentofacial deformities - Om Prakash Kharbanda 3. Contemporary orthodontics / William R. Proffit with Henry W. Fields Jr. and James L. Ackerman [et al.]. - 3rd ed. - St. Louis : C. V. Mosby, 2000 <p>Additional literature and other materials (no more than 3 items)</p> <ol style="list-style-type: none"> 1. Orthodontic materials: scientific and clinical aspects / [ed. by] William A. Brantley, Theodore Eliades; foreword by T. M. Graber. - Stuttgart: Thieme, 2001 2. American Journal of Orthodontics 3. Angle Orthodontist
<p>Didactic resources requirements (e.g. laboratory, multimedia projector, other...)</p> <ol style="list-style-type: none"> 1. Fully-fitted clinical room 2. Orthodontic of orthodontic technology 3. Multimedia projector
<p>Preliminary conditions (minimum requirements to be met by the student before starting the module/course)</p> <ol style="list-style-type: none"> 1. Completed course in preclinical dentistry 2. Completed course in normal anatomy 3. Completed course in functional disorders of the masticatory organ
<p>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 met by the student to pass it and criteria for specific grades)</p> <ol style="list-style-type: none"> 1. Passing the seminars: oral assessment in class, passing the test 2. Passing the clinical classes: an oral or written assessment during individual classes (free response of multiple-choice test) concerning the issues discussed within a given semester (arithmetic average of points received: 2-5 points) 3. Passing (meeting the quota within) the practical classes (arithmetic average of points received: 2-5 points) 4. A single-answer multiple choice test – 30 questions (maximum of 15 points) 5. In addition, it is possible to receive extra points for participation in the science club: <ol style="list-style-type: none"> a. Presenting a poster at a congress – 2 points b. Publication – 5 points <p>The resulting sum of points constitutes a component of the final grade received upon passing the exam in year V. In order to obtain credit at the end of the academic year, students must receive at least 60% of the maximum number of points in seminars and practical classes (quotas) as well as at least 60% (9 points) in the final test.</p>

Grade:	Criteria (only for courses/modules ending with an examination)
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	
	Criteria (only for courses/modules ending with e credit)



Credit	In order to obtain credit at the end of the academic year, students must receive at least 60% of the maximum number of points in seminars and practical classes (quotas) as well as at least 60% (9 points) in the final test.
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Grade:	Criteria (examination evaluation criteria)
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	
Unit realizing the subject	Department of Maxillofacial Orthopaedics and Orthodontics
Unit address	ul. Krakowska 26, 50-425 Wrocław
Telephone	tel.: 71 784 02 99, faks: 71 784 04 18
E-Mail	e-mail: ortodoncja@umed.wroc.pl

Person responsible for module	Lek.dent. Dorota Kustrzycka
Coordinator	
Telephone	71 784 02 99
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List of persons conducting specific classes				
Full name	Degree/scientific or professional title	Discipline	Performed profession	Form of classes

Date of Syllabus development

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Syllabus developed by

Magdalena Dubowik PhD DDS.

Signature of Head of teaching unit

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Signature of Faculty Dean

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