





Summer Semester													
Direct (contact) education				45									
Online learning (synchronous)													
Online learning (asynchronous)													
TOTAL per year: 45													
Direct (contact) education				45									
Online learning (synchronous)													
Online learning (asynchronous)													
Educational objectives (max. 6 items)													
C1. Teaching students about the basics of modern radiology and techniques and methods of imaging of the maxillofacial region of the skull													
C2. Teaching students the interpretation of radiological examinations in oral surgery													
C3. Teaching students about radiological protection and safety of radiological examinations													
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>			
<b>W 01</b>	<b>F.W21.</b>	Student knows the principles of diagnostic radiology				oral and written test				S, MC			
<b>W 02</b>	<b>B.W9.</b>	Student knows the principles of radiological protection				oral and written test				S, MC			
<b>W 03</b>	<b>F.W21</b>	Student know the radiological anatomy of the maxillo-facial region				oral and written test				S, MC			
<b>W 04</b>	<b>F.W21.</b>	Student know the scheme of radiographs description				oral and written test				S, MC			
<b>W 05</b>	<b>B.W9.</b>	Student knows the methods and techniques of radiological imaging in the maxillo-facial region				oral and written test				S, MC			
<b>U 01</b>	<b>F.U.14.</b>	Student formulates research problems related to his work				oral and written test				S, MC			
<b>U 02</b>	<b>E.U5</b> <b>F.U15.</b>	Students interprets pantomographic pictures				oral and written test				S, MC			
<b>U 03</b>	<b>E.U5</b> <b>F.U15</b>	Students interprets intraoral radiological picture				oral and written test				S, MC			



<b>U 04</b>	<b>E.U5</b> <b>F.U15</b>	Students interprets CT	oral and written test	S, MC
<b>U 05</b>	<b>E.U5</b> <b>F.U15</b>	Student interprets extraoral bite radiological pictures	oral and written test	S, MC
<b>K 01</b>		Student cooperates in the group during interpretation of radiological pictures	direct observation of the students by the teacher (skills assessment)	S, MC
<b>K 02</b>		Student demonstrates the skills of interpretation radiological pictures in the forum of student group	direct observation of the students by the teacher (skills assessment)	S,MC
<p>** 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 .</p>				
<p>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: +++ Skills: ++ Social competences: +</p>				
<b>Student's amount of work (balance of ECTS points)</b>				
<b>Student's workload</b> (class participation, activity, preparation, etc.)			<b>Student Workload (h)</b>	
1. Contact hours:			45	
2. Online learning hours (e-learning):				
3. Student's own work (self-study):			25	
Total student's workload			70	
<b>ECTS points for module/course</b>			2	
Comments				
<b>Content of classes</b> (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)				
<b>Lectures</b> Not applicable				
<b>Seminars</b> Not applicable.				
<b>Practical classes</b> 1.X-ray radiation. Diagnostic devices. Projections. Factors which have an influence for x-ray image. Radiological protection. 2.Sorts and techniques of making intraoral x-ray images. Digital radiography. Differences between classic and digital methods.				



<p>3. Radiological anatomy. Schema of description intraoral x-ray image</p> <p>4. Pantomographic images, radiological anatomy</p> <p>5. Radiological diagnostic of teeth hard tissue and marginal periodontium disorders. Endodontic x-ray diagnostic.</p> <p>6. Odontogenic pathological lesions in periapical tissues and in alveolar process bone.</p> <p>7. Radiology diagnostic of cysts.</p> <p>8. Dental radiology of development age. Dental disorders.</p> <p>9. Dental radiology of impacted and supplementary teeth.</p> <p>10. Bases of orthodontic radiology. Cephalometric images</p> <p>11. X-ray diagnostic of maxillary sinuses.</p> <p>12. Computer tomography - rules of making and interpretation, 3D techniques.</p> <p>13. Bases of radiological differentiation diagnostic</p> <p>14. Description of X-ray images.</p>
<p><b>Other</b></p> <p>...</p>
<p><b>Basic literature</b> (list according to importance, no more than 3 items)</p> <p>1. E. Whaites, N. Drage. Essentials of Dental Radiography and Radiology. 5 - Edition Churchill Livingstone, 2013</p> <p>2. S.C. White, M.J. Pharoah.: Oral Radiology: Principles and Interpretation, Mosby, 2014</p> <p>3. P. Dayal, L.C. Naidog.: Dentomaxillofacial Radiology, Jaypee, 2007</p>
<p><b>Additional literature and other materials</b> (no more than 3 items)</p> <p>1. F. Stabulas-Savage.: Radiology for the Dental Professional, 8 – edition, Elsevier</p> <p>2. G. Ananad Kumar.: A short Textbook of Oral Radiology, Jaypee, 2004</p> <p>3. Anil Govindrao Ghom.: Textbook of Oral Radiology, Elsevier, 2008</p>
<p><b>Didactic resources requirements</b> (e.g. laboratory, multimedia projector, other...)</p> <p><b>Multimedia projector, base of the radiological pictures</b></p>
<p><b>Preliminary conditions</b> (minimum requirements to be met by the student before starting the module/course)</p> <p>1. Presence of the student list from Dean's office</p> <p>2. Acquaintance of instruction book of work in Oral Surgery Department</p>
<p><b>Conditions to receive credit for the course</b> (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> <p>Positive estimates from oral answers, written tests.</p>



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<b>Grade:</b>	<b>Criteria</b> (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)	
	<b>Criteria</b> (only for courses/modules ending with e credit)
Credit	

<b>Grade:</b>	<b>Criteria</b> (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	
Unit address	
Telephone	
E-Mail	

Person responsible for module	Prof. dr hab. Marzena Dominiak
Coordinator	Lek. dent. Artur Pitulaj



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<b>List of persons conducting specific classes</b>				
<b>Full name</b>	<b>Degree/scientific or professional title</b>	<b>Discipline</b>	<b>Performed profession</b>	<b>Form of classes</b>
Artur Pitułaj	Lek. dent.	Oral Surgery	Dentist	Lectures, clinical classes
Artur Błaszczyszyn	Dr n. med.	Oral Surgery	Dentist	Lectures, clinical classes
Paweł Popecki	Lek. dent.	Oral Surgery	Dentist	Lectures, clinical classes
Paweł Kubasiewicz-Ross	Dr n. med.	Oral Surgery	Dentist	Lectures, clinical classes
Daniel Selahi	Lek. dent.	Oral Surgery	Dentist	Lectures, clinical classes
Barbara Sterczała	Lek. dent.	Oral Surgery	Dentist	Lectures, clinical classes
Jakub Hadzik	Dr n. med.	Oral Surgery	Dentist	Lectures, clinical classes

**Date of Syllabus development**

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**Syllabus developed by**

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**Signature of Head of teaching unit**

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**Signature of Faculty Dean**

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