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| **Syllabus for academic year: 2020/2021** **Training cycle: 2017-2022** |
| **Description of the course** |
| **Module/Course** | **Maxillofacial radiology** | **Group of detailed education results**  |
| **Group code** **E** | **Group name****V - Clinical non-surgical sciences** |
| **Faculty** | Dentistry |
| **Major**  | dentistry |
| **Unit realizing the subject** | Department of Maxillofacial Surgery |
| **Specialties** |  |
| **Level of studies** | Uniform magister studies **X** \*1st degree studies 2nd degree studies 3rd degree studies postgraduate studies  |
| **Form of studies** | **X** full-time **X** part-time |
| **Year of studies**  | 4 | **Semester** |  Winter**X** Summer |
| **Type of course** | **X** obligatory limited choice free choice / elective  |
| **Course** | **X** major basic |
| **Language of instruction** |  Polish **X** English other |
| \* mark with an **X** |
| **Number of hours** |
| Form of education |
| Unit teaching the course | 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) | Specialist Classes – magister studies (SCM) | Foreign language Course (FLC) | Physical Education obligatory (PE) | Vocational Practice (VP) | Self-Study (Student's own work) | E-learning (EL) |
| **Winter Semester** |
| **Direct (contact) education** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Online learning (synchronous)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Distance learning (asynchronous)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Summer Semester** |
| **Direct (contact) education** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Online learning (synchronous)** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Online learning (asynchronous)** |  |  |  |  | 20 |  |  |  |  |  |  |  |  |  |
| **TOTAL per year:** |
| **Direct (contact) education** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Online learning (synchronous)** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Online learning (asynchronous)** |  |  |  |  | 20 |  |  |  |  |  |  |  |  |
| **Educational objectives** (max. 6 items)**C1**. Studying basic diagnostic methods in head and neck radiology. **C2**. Studying principles of physics in diagnostic imaging methods and tools.**C3.** Acquiring basic skills in selection, description and interpretation of diagnostic images.**C4**. Studying the rules of radioprotection. |
| **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*\*\*enter the abbreviation* |
| **W 01** | **B.W9****F.W21****E.W1** | * knows the rules of radioprotection
* knows the principles of physics in methods (X-ray, CT, CBCT, MRI, PET, US)
* is acquainted with the diagnostic imaging methods (as above)

understands the principles of radiologic anatomy and pathology | Exam: practical (interpretation of diagnostic images) and choice test | CC |
| **U 01** | **E.U5****F.U13** | * uses the appropriate diagnostic method in clinical situations
* describes and interprets diagnostic images
* selects appropriate methods of differential diagnosis

prepares medical documentation | Exam: practical (interpretation of diagnostic images) and choice test | CC |
| **K 01** | **G.U29****G.U36****G.U39****G.U40****G.U30****G.W25** | * actively participates in clinical exercises
* cooperates in a group
* treats patients, hospital staff and colleagues with respect

shows compassion and patience to the patient | assessment of student behavior by assistant | CC |
| \*\* 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: 3Skills: 3Social competences: 3 |
| **Student's amount of work (balance of ECTS points)** |
| **Student's workload** (class participation, activity, preparation, etc.) | **Student Workload (h)** |
| 1. Contact hours: | 0 |
| 2. Online learning hours (e-learning): | 20 |
| 3. Student's own work (self-study): | 10 |
| Total student's workload | 30 |
| **ECTS points for module/course** | 1 |
| 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**1. n/a
 |
| **Seminars**n/a |
| **Practical classes**1. Radioprotection. Extraoral projections
2. Intraoral projections. Ultrasonography
3. CT, MRI, PET
4. Inflammatory processes of the jaw bones
5. Cystic lesions of jaw bones
6. Diseases of maxillary sinuses. Cysts of the soft tissues
7. Imaging in head and neck oncology
8. Fractures of facial skeleton diagnostic imaging
9. Orbital fractures diagnostic imaging
10. TMJ disorders imaging
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| **Other****n/a** |
| **Basic literature** (list according to importance, no more than 3 items)1. Oral Radiology: Principles and Interpretation, 6th edition, S. C. White, M. J. Pharoah; Mosby/Elsevier 2009. **Additional literature and other materials** (no more than 3 items)1. Essentials of Dental Radiography and Radiology, E. Whaites; Churchill Livingstone/ Elsevier 2003. 2. Intraoral Radiographic Techniques, A. G. Farman, S. A. Kolsom, ADAA Council on Education, Continuing Education Course, Revised March 4, 2011. |
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| **Didactic resources requirements**Laptop, multimedia projector, seminar room, surgical dispensary, patient rooms in the Department of Maxillofacial Surgery |
| **Preliminary conditions:** credit in dental radiology (3rd year of dentistry) |
| **Conditions to receive credit for the course**:attendance (according to the Study regulations), passing the final exam (choice test, practical part – interpretation of diagnostic images) |
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| **Grade:** | **Criteria** (only for courses/modules ending with an examination) |
| Very Good(5.0) | knows the topics very well and uses this knowledge creatively |
| Good Plus (4.5) | knows the topics well and uses this knowledge independently |
| Good(4.0) | knows the topics well and uses this knowledge in most of cases |
| Satisfactory Plus (3.5) | knows most of the topics and uses this knowledge in basic cases |
| Satisfactory (3.0) | knows more than half of the topics and uses this knowledge in very basic cases |
|  | **Criteria** (only for courses/modules ending with e credit) |
| Credit | - |
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| **Grade:** | **Criteria** (examination evaluation criteria) |
| Very Good(5.0) | 90-100% of correct answers |
| Good Plus (4.5) | 80-89% of correct answers |
| Good(4.0) | 70-79% of correct answers |
| Satisfactory Plus (3.5) | 60-69% of correct answers |
| Satisfactory (3.0) | 50-59% of correct answers |
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| **Unit realizing the subject** | Department of Maxillofacial Surgery |
| **Unit address** | University Hospital, Borowska str. 213, 50-556 Wrocław |
| **Telephone** | 71 733 36 00 |
| **E-Mail** | hanna.gerber@umed.wroc.pl |
| **Person responsible for module** | Marcin Kubiak MD, DDS |
| **Coordinator** | Marcin Kubiak MD, DDS |
| **Telephone** | 71 733 36 00 |
| **E-Mail** | marcin.kubiak@umed.wroc.pl |
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| **List of persons conducting specific classes** |
| **Full name** | **Degree/scientific or professional title** | **Discipline** | **Performed profession** | **Form of classes** |
| Marcin Kubiak | MD, DDS | medicine and dentistry | maxillofacial surgeon | CC |
| Wojciech Pawlak | DDS, PhD | dentistry | maxillofacial surgeon | CC |
| Anna Miner-Kordasiewicz | MD | medicine | trainee in maxillofacial surgery | CC |
| Andrzej Jaxa-Kwiatkowski | MD | medicine | trainee in maxillofacial surgery | CC |
| Sylwia Hnitecka | DDS | dentistry | trainee in maxillofacial surgery | CC |
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| **Date of Syllabus development**  | **Syllabus developed by**  |
| 2020-09-25**Date of Syllabus correction**2021-02-08 | Marcin Kubiak MD, DDS |
| **Signature of Head of teaching unit** |
| Prof. Hanna Gerber MD, DDS, PhD |

**Signature of Faculty Dean**  |
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