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| **Syllabus 2018/2019** |
| **Description of the course** |
| **Module/Course****Dental Radiology** |  | **Group of detailed education results**  |
| **Group code C** | **Group name**Pre-clinical |
| **Faculty** | English Division, Faculty of Dentistry |
| **Major**  | Faculty of Dentistry |
| **Specialties** |  |
| **Level of studies** | Uniform magister studies X1st degree studies 2nd degree studies 3rd degree studies postgraduate studies  |
| **Form of studies** | X full-time part-time |
| **Year of studies**  | III | **Semester****VI** |  Winter× 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** |
| **-------------------------** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Summer Semester** |
|  |  | 20 |  | 15 |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **TOTAL per year:** |
|  | 35 |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Educational objectives** (max. 6 items)**C1.Teaching students about the basics of modern radiology and techniques and methods of imaging of the maxillofacial regionof 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*\*\*enter the abbreviation* |
| **W 01**  | **F.W21.** | Student knows the principles of diagnostic radiology | oral and written test | S, MC |
| **W 02** | **B.W9.** | Student knows the principles of radiological protection | oral and written test | S, MC |
| **W 03** | **F.W21** | Student know the radiological anatomy of the maxillo-facial region | oral and written test | S, MC |
| **W 04** | **F.W21.** | Student know the scheme of radiographs description  | oral and written test | S, MC |
| **W 05** | **B.W9.** | Student knows the methods and techniques of radiological imaging in the maxillo-facial region | oral and written test | S, MC |
| **U 01**  | **F.U.14.** | Student formulates research problems related to his work | oral and written test | S, MC |
| **U 02** | **E.U5****F.U15.** | Students interprets pantomographic pictures | oral and written test | S, MC |
| **U 03** | **E.U5****F.U15** | Students interprets intraoral radiological picture | oral and written test | S, MC |
| **U 04** | **E.U5****F.U15** | Students interprets CT | oral and written test | S, MC |
| **U 05** | **E.U5****F.U15** | Student interprets extraoral bite radiological pictures | oral and written test | S, MC |
| **K 01** |  | Student cooperates in the group during interpretation of radiological pictures | direct observation of the students by the teacher(skills assessment) | S, MC |
| **K 02** |  | 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 |
| **W 01** |  | Please enter from 5 to max. 7 education results – examples of verbs defining the education result in the scope of student’s knowledge: describes, defines, explains,  |  |  |
| **U 01** |  | Please enter from 5 to max. 7 education results – examples of verbs defining the education result in the scope of student’s knowledge:uses, performs, resolves  |  |  |
| **K 01** |  | Please name ca. 203 attitudes – exemplary verb to determine education result as attitude forming: creates, willingly participates, cooperates in a group, actively participates  |  |  |
| \*\* 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 +++Skills ++Behaviors + |
| **Student's amount of work (balance of ECTS points)** **2 ECTS = 60 h** |
| **Student's workload** (class participation, activity, preparation, etc.) | **Student Workload (h)** |
| 1. Contact hours: | 35 |
| 2. Student's own work (self-study): | 25 |
| Total student's workload | 60 |
| **ECTS points for module/course** | 2 |
| 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) |
| **Seminars**1. Seminars :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.3.Radiological anatomy. Schema of description intraoral x-ray image4. Pantomographic images, radiological anatomy5. Radiological diagnostic of teeth hard tissue and marginal periodontium disorders. Endodontic x-ray diagnostic. 6. Odontogenic pathological lesions in periapical tissues and in alveolar process bone.7. Radiology diagnostic of cysts. 8. Dental radiology of development age. Dental disorders.9. Dental radiology of impacted and supplementary teeth.10. Bases of orthodontic radiology. Cephalometric images11. X-ray diagnostic of maxillary sinuses.12. Computer tomography - rules of making and interpretation, 3D techniques.13. Bases of radiological differentiation diagnostic14. Description of X-ray images. |
| **Classes :**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.3.Radiological anatomy. Schema of description intraoral x-ray image4. Pantomographic images, radiological anatomy5. Radiological diagnostic of teeth hard tissue and marginal periodontium disorders. Endodontic x-ray diagnostic. 6. Odontogenic pathological lesions in periapical tissues and in alveolar process bone.7. Radiology diagnostic of cysts. 8. Dental radiology of development age. Dental disorders.9. Dental radiology of impacted and supplementary teeth.10. Bases of orthodontic radiology. Cephalometric images11. X-ray diagnostic of maxillary sinuses.12. Computer tomography - rules of making and interpretation, 3D techniques.13. Bases of radiological differentiation diagnostic14. Description of X-ray images. |
| **Basic sources: (list according to significance, no more than 3 items) - enclosure**1. E. Whaites,N.Drage. Essentials of Dental Radiography and Radiology.5 -Edition Churchill  Livingstone, 2013 2. S.C.White, M.J.Pharoah.: Oral Radiology:Principles and Interpretation, Mosby, 2014 3. P. Dayal, L.C.Naidog.: Dentomaxillofacial Radiology, Jaypee,2007**Additional sources and other resources: (no more than 3 items) – enclosure**1. F. Stabulas-Savage.: Radiology for the Dental Professional , 8 – edition, Elsevier2. G. Ananad Kumar.: A short Textbook of Oral Radiology, Jajpee, 20043. Anil Govindrao Ghom.: Textbook of Oral Radiology, Elsevier, 2008 |
| **Didactic resources requirements** (e.g. laboratory, multimedia projector, other…)**Multimedia projector, base of the radiological pictures** |
| **Preliminary conditions** (minimum requirements to be met by the student before starting the module/course)1.Presence of the student list from Dean’s office2.Acquaintance of instruction book of work in Oral Surgery Department  |
| **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 made by the student to pass it and criteria for specific grades)Positive estimates from oral answers, written tests and preparation of presentation. |
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| **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) |  |
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| **Name and address of module/course teaching unit, contact: telephone and e-mail address**Oral Surgery Department / Katedra i Zakład Chirurgii StomatologicznejUl. Krakowska 26, 50-425WrocławTel. 71 -784-02-51, e-mail: jolanta.pilarska@umed.wroc.pl**Coordinator / Person responsible for module/course, contact: telephone and e-mail address**dr n. med. Olga Szachnowska /oparulska@wp.pl /604 415 833 **List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.**dr n. med. Olga Szachnowska (adiunkt, specjalista chirurgii stomatologicznej) seminars, major classes – not clinicaldr n. med. Artur Błaszczyszyn (adiunkt, specjalista chirurgii stomatologicznej) seminars, major classes – not clinicaldr n. med. Paweł Kubasiewicz-Ross (adiunkt, specjalista chirurgii stomatologicznej) seminars, major classes – not clinicallek.dent. Jakub Hadzik (asystent) seminars, major classes – not clinicallek.dent. Przemysław Papiór (asystent)seminars, major classes – not clinicallek.dent. Klaudia Kazubowska (asystent)seminars, major classes – not clinicallek.dent. Artur Pitułaj (asystent)seminars, major classes – not clinicallek.dent. Paweł Popecki (asystent)seminars, major classes – not clinicallek.dent. Anna Leszczyszyn (studia doktoranckie)seminars, major classes – not clinicallek.dent. Aleksandra Całkosińska (studia doktoranckie)seminars, major classes – not clinical**Date of Syllabus development** **18.06.2018**

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| **Date of Syllabus development**  | **Syllabus developed by**  |
| ………………………………………….. |  dr n. med. Olga Szachnowska |
| **Signature of Head of teaching unit** |
| ……………....……………………………………………………………… |

**Signature of Faculty Dean**  |
| ……………....……………………………………………………………… |
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