

**Model syllabus for a subject**

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| 1. **Imprint**
 |
| Faculty name: | Faculty of Medicine and Dentistry |
| Education program *(field of study, level and educational profile, form of studies, e.g., Public Health, 1st level studies, practical profile, full time):* | Faculty of Medicine and Dentistry, English Dentistry Division, full cycle, practical profile, intramural, full time |
| Academic year: | 2019/2020 |
| Module/subject name: | Practical aspects of clinical and radiological anatomy of teeth in modern endodontics. |
| Subject code *(from the Pensum system):* |  |
| Educational units: | Department Dental Comprehensive CareMedical University of WarsawBienieckiego 6 Warszawa - 9 hDepartment of Dental and Maxillofacial Radiology, Medical University of WarsawBienieckiego 6,  Warszawa – 3 hDepartment of PedodonticsMedical University of WarsawBinieckiego 6Warszawa - 3 h |
| Head of the unit/s: | Associate Professor Izabela Strużycka DMD, PhD |
| Study year *(the year during which the respective subject is taught):* | II - IV |
| Study semester *(the semester during which the respective subject is taught):* | summer |
| Module/subject type *(basic, corresponding to the field of study, optional):* | Optional course |
| Teachers *(names and surnames and degrees of all academic teachers of respective subjects):* | Associate Professor Izabela Strużycka DMD, PhDProfessor Dorota Olczak Kowalczyk DMD, PhDProfessor Kazimierz Szopiński MD, PhDHubert Gołąbek DMDPiotr Regulski DMD, PhDPiotr Rożniatowski DMDArtur Wierciński DMD |
| ERASMUS YES/NO *(Is the subject available for students under the ERASMUS programme?):* | YES |
| A person responsible for the syllabus *(a person to which all comments to the syllabus should be reported)* | Associate Professor Izabela Strużycka DMD, PhD |
| Number of ECTS credits: | 0.75 |
| 1. **Educational goals and aims**
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| To familiarize the students with the anatomy of the primary and permanent teeth, their development and anatomic variantsTo familiarize the students with the clinical importance of anatomic variations in conservative dentistry and pedodonticsTo familiarize the students with radiologic image of normal teeth and their variants.To familiarize the students with the principles of preparation of tooth cavity to modern endodontic treatment |

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| 1. **Initial requirements**
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| Completed course of normal anatomyCompleted course of histology and embryology |
| 1. **Learning outcomes corresponding to the subject**
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| **A list of course learning outcomes** |
| Symbol of course learning outcomes | Description of course learning outcomes | The reference to programme learning outcomes (number) |
|  **W1** | Know and differentiate the anatomic features of primary and permanent teeth, the most common clinical variants, the clinical importance of the anatomic variants, the anatomy and histology of primary and immature permanent teeth | **A.W1, A.W2, A.W3** |
|  **W2** | Know the morphology of the pulp spaces of the permanent teeth and the most common anatomic variants of the pulp spaces | **A.W1, A.W3** |
|  **W3** | Know the radiologic appearance of normal primary and permanent teeth in dental radiography, orthopantomography, extraoral radiography and cone beam computed tomography (CBCT) | **A.W1, A.W3** |
|  **W4** | Know the radiologic appearance of tooth development | **A.W1, A.W2, A.W3** |
|  **W5** | Know the radiologic appearance of the most common developmental variants in dental radiography, orthopantomography, extraoral radiography and cone beam computed tomography (CBCT) | **A.W1, A.W3** |
|  **W6** | Know and understand the clinical importance of the anatomic variants in context of modern endodontic treatment | **A.W1, A.W3** |
| 1. **Forms of classes**
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| *Form* | *Number of hours* | *Number of groups* |
| *Lecture* |  |  |
| *Seminar* | 15 | 1 |
| *Practical classes* |  |  |
| 1. **Subject topics and educational contents**
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| *eg.:**L1-Lecture 1 – The subject of the lecture….- Curriculum content;……- Lecturer- prof. Jan Nowak MD PhD**L2-Lecture 2 – The subject of the lecture….- Curriculum content;……- Lecturer- prof. Jan Nowak MD PhD**S1-Seminar 1 – The subject of the seminar….- Curriculum content;……- Lecturer- prof. Jan Nowak MD PhD* |
|  | The subject of the seminar | Curriculum content | Lecturer |
| S1 – seminar 1 W1 | Clinical anatomy of primary and immature permanent teeth | Anatomic features of primary and immature permanent teethMost common anatomic variantsClinical importance of the clinical variantsDifferentiation of primary and immature permanent teeth | Piotr Rożniatowski DMD |
| S2 – seminar 2 W2 | Anatomy of mature permanent teeth | Morphology of the pulp spaces and most common anatomic variants of mature permanent teeth | Artur Wierciński DMDHubert Gołąbek DMD |
| S3 – seminar 3 W3 | Clinical importance of anatomic variation of permanent teeth in the context of endodontic treatment part 1 | Principles of preparation of the pulp spaces for endodontic treatment  | Huber Gołąbek DMDArtur Wierciński DMD |
| S4 – seminar 4 W4 | Clinical anatomy of the teeth | Radiologic features of normal teeth and the most important anatomic variants in dental radiography, orthopantomography, extraraoral radiography and cone beam computed tomography (CBCT) | Professor Kazimierz Szopiński MD, PhDPiotr Regulski DMD, PhD |
| S5 – seminar 5 W5,W6 | Clinical importance of anatomic variation of permanent teeth in the context of endodontic treatment part 2 | Principles of preparation of root cannals for endodontic treatment | Associate Professor Izabela Strużycka DMD, PhDHubert Gołąbek DMD |
| 1. **Methods of verification of learning outcomes**
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| Learning outcome corresponding to the subject (symbol) | Forms of classes (symbol) | Methods of verification of a learning outcome | Credit receiving criteria |
|  W1-W6 |  S | Presence on the seminars. Evaluation of the involvement in discussions. | Presence and active participation in seminars. Obtaining a positive grade from teacher leading classes. |
| 1. **Evaluation criteria**
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| **Form of receiving credit in a subject:** 100% presence on the seminars is obligatory. In case of absence, the term and a form of getting a credit from seminar should be individually established with the teacher conducting classes. |
| grade | Criteria |
| **2,0 (unsatisfactory)** | - |
| **3.0 (satisfactory)** | - |
| **3.5 (rather good)** | - |
| **4.0 (good)** | - |
| **4.5 (more than good)** | - |
| **5.0 (very good)** | - |
| 1. **Literature**
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| **Obligatory literature/textbooks:**1. Nelson SJ. Wheeler’s Dental Anatomy. Saunders Elsevier 2010
2. Tronstadt L., Clinical endodontics: a textbook, 3rd edition, Georg Thieme Verlag, 2009

**Complementary literature/textbooks:**1. Torabinejad M., Walton R.E., Endodontics, principles and practice, 5th edition, Saunders Elsevier 2009, 2. Cohen S., Hargreaves K.M., Pathways of the Pulp, 10th edition, Mosby Elsevier 2011, |
| 1. **ECTS credits calculation**
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| ***Form of activity*** | ***Number of hours*** | ***Number of ECTS credits*** |
| ***Direct hours with an academic teacher:*** |
| Lectures |  |  |
| Seminar | **15** | 0.5 |
| ***Student's independent work*** *(examples of the form of work):* |
| Student's preparation for a seminar | **5** | 0.1 |
| Student's preparation for a class |  |  |
| Preparation for obtaining credits | **10** | 0.15 |
| Other (please specify) |  |  |
| In total | **30** |  **0.75** |
| 1. **Additional Information**
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| The seminars are held according to the published schedule.Students may join the Student Club of Department of Dental Comprehensive Care, tutor Katarzyna Brus-Sawczuk DMD,PhD, contact: the administrative office of the Department of Dental Comprehensive Care.  |

Signature of the person responsible for the syllabus

Signature of the Head of the Unit