



# Pomeranian Medical University in Szczecin

## SYLLABUS of the MODULE (SUBJECT)

### General Information

| Module title: Conservative Dentistry with Endodontics  |   |
|--|---|
| Module type  | Obligatory  |
| Faculty PMU  | Faculty of Medicine and Dentistry   |
| Major  | Dentistry   |
| Level of study   | long-cycle (S2J)  |
| Mode of study  | full-time studies   |
| Year of studies, semester  | Year III, semester V,VI   |
| ECTS credits (incl. semester breakdown)  | 7 ( semester V- 3, semester VI-4)   |
| Type/s of training   | lectures (20h), classes (60h), seminars (18h)<br>V semester: l:10h, cl: 30h, sem: 9h<br>VI semester: l:10h, cl: 30h, sem: 9h  |
| Form of assessment*  | <input checked="" type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> descriptive</li> <li><input checked="" type="checkbox"/> test</li> <li><input checked="" type="checkbox"/> practical</li> <li><input checked="" type="checkbox"/> oral</li> </ul> <input type="checkbox"/> non-graded assessment<br><br><input type="checkbox"/> final examination <ul style="list-style-type: none"> <li><input type="checkbox"/> descriptive</li> <li><input type="checkbox"/> test</li> <li><input type="checkbox"/> practical</li> <li><input type="checkbox"/> oral</li> </ul> |
| Head of the Department/ Clinic, Unit   | dr hab. n. med. Ryta Łagocka  |
| Tutor responsible for the module   | dr n. med. Monika Szmidt-Kądys  |
| Name and address   | Department of Conservative Dentistry with Endodontics<br>al. Powstańców Wlkp. 72, 70-111 Szczecin<br>tel.: 91 466 16 48<br>e-mail: zstzach@pum.edu.pl   |
| Strona internetowa jednostki:<br><a href="https://www.pum.edu.pl/studenci/informacje_z_jednostek/ws/katedra_i_zaklad_stomatologii_zachow_awczej_i_endodoncji/">https://www.pum.edu.pl/studenci/informacje_z_jednostek/ws/katedra_i_zaklad_stomatologii_zachow_awczej_i_endodoncji/</a> |   |
| Language   | English   |

\* replace  into  where applicable

**Detailed information**

|   |  |  |
|---|--|--|
| <b>Module objectives</b>                    | <p>The aim of conservative dentistry with endodontics course is to prepare competent dentist for treating adult patients.</p> <p>Special emphasis is placed on the graduate to gain skills in a field of clinical thinking, examination of the patient, diagnostic procedures and differential diagnosis.</p> <p>During the course of study, student will acquire knowledge about the subject of the correct anatomy, function, etiology, pathology and symptoms of stomatognathic system diseases as well as new diagnostic tools and methods of treatment, that will enable the graduate to perform effective therapeutic procedures in particular diseases of oral mouth, head and neck in adults.</p> <p>To expand theoretical knowledge and improve and consolidate the practical skills in the field of health promotion and prevention, diagnosis and treatment of diseases falling within the scope of dentistry as to prepare the student to pursue independently the profession of dentistry.</p> <p>Graduate assimilates knowledge of the connections between general medicine and dentistry, the influence of general diseases and their treatment on dental procedures and obtains the ability to diagnose general diseases on the basis of symptoms detected in the oral cavity.</p> <p>Graduate should be able to perform necessary dental treatment before surgical procedures, chemotherapy and radiotherapy.</p> |  |
| <b>Prerequisite /essential requirements</b> | <b>Knowledge</b>   | <p>Knowledge of anatomy and function of stomatognathic system. Knowledge of organization of work of dental practice, instrumentarium. Knowledge of the work environment, dental instruments and dental practice organization. Knowledge of the rules of ergonomics and work safety. Knowledge and ability to diagnose, prevent and treat dental caries and non-carious lesions.</p> <p>Knowledge of bases for disinfection, sterilization and aseptic work. Knowledge of etiology, diagnostics and treatment of pulp and periodontium ligament diseases.</p> <p>Knowledge of the composition, construction, properties, purpose and use of dental materials.</p> |
|   | <b>Skills</b>  | <p>Work in dental practice knowing rules of ergonomics and safety work regulations.</p> <p>Prepare and fill carious and non-carious cavities in patients.</p> <p>Choose, prepare and use correct dental medicaments and materials.</p>   |
|   | <b>Competences</b>   | <p>Ability to self-education, to establish contact with patients</p>   |

| <b>Description of the learning outcomes for the subject /module</b> |  |   |   |
|---|--|---|---|
| <b>No. of learning outcome</b>                                      | <b>Student, who has passed the (subject) knows /is able to /can:</b>   | <b>SYMBOL (referring the standards)</b> | <b>Method of verification of learning outcomes*</b> |
| W01   | knows and understands principles of management in the case of pulp diseases and mineralized dental tissues as well as teeth and facial bones trauma                  | F.W5.                                   | TS,W,S  |
| W02   | knows and understands causes of complications of stomatognathic system diseases and the rules of their management  | F.W12.                                  | TS,W,S  |
| U01   | is able to interview patient or his/her family   | F.U1.                                   | TS,W,S  |
| U02   | is able to carry out dental examination of patient   | F.U2.                                   | TS,W,S  |
| U03   | is able to provide patient with explanation about nature of ailment, establish treatment confirmed by informed consent of the patient as well as establish prognosis | F.U3.                                   | S   |
| U04   | is able to provide patient or his/her family with the information about unfavorable prognosis  | F.U4.                                   | S   |
| U05   | is able to sample and protect material for diagnostic tests, including cytology  | F.U5.                                   | TS,W,S  |
| U06   | is able to interpret results of auxiliary diagnostics and consultations  | F.U6.                                   | TS,W,S  |
| U07   | is able to determine indications and contraindications to a specified dental procedure   | F.U7.                                   | TS,W,S  |
| U08   | is able to manage general and local complications during and after dental procedures   | F.U9.                                   | TS,W,S  |
| U09   | is able to keep current patient records, refer patient to general and specialist dental and medical examination or treatment   | F.U11.                                  | S   |
| U10   | is able to present selected medical problems in oral or written form relevantly to recipient standards   | F.U13.                                  | S   |
| U11   | is able to assess risk of caries applying microbiological and salivary tests   | F.U14.                                  | TS,W,S  |
| U12   | is able to establish treatment for stomatognathic system tissues diseases  | F.U15.                                  | TS,W,S  |
| K01   | is ready to establish and maintain deep and respectful contact with the patient as well as to show understanding for ideological and cultural differences            | K.1.                                    | S   |
| K02   | is ready to be guided by the patient wellbeing   | K.2.                                    | S   |
| K03   | is ready to respect physician-patient privilege and patient's rights   | K.3.                                    | S   |

|     |   |      |   |
|-----|---|------|---|
|     |   |      |   |
| K04 | is ready to take activities towards patient on the basis of ethical principles with awareness of social conditions and disease restrictions   | K.4. | S |
| K05 | is ready to propagate health-promoting behavior   | K.6. | S |
| K06 | is ready to implement the principles of professional fellowship and cooperation in a team of specialists, including representatives of other medical professions, also in a multicultural and multinational environment | K.9. | S |

Table presenting LEARNING OUTCOMES in relation to the form of classes

| No. of learning outcome | Learning outcomes | Type of training |         |           |                  |             |            |          |
|-------------------------|-------------------|------------------|---------|-----------|------------------|-------------|------------|----------|
|                         |                   | Lecture          | Seminar | Practical | Clinical classes | Simulations | E-learning | Other... |
| 1                       | F.W5.             | X                | X       |           | X                |             |            |          |
| 2                       | F.W12             | X                | X       |           | X                |             |            |          |
| 3                       | F.U1              |                  | X       |           | X                |             |            |          |
| 4                       | F.U2              |                  | X       |           | X                |             |            |          |
| 5                       | F.U3              |                  | X       |           | X                |             |            |          |
| 6                       | F.U4              |                  | X       |           | X                |             |            |          |
| 7                       | F.U5              | X                | X       |           | X                |             |            |          |
| 8                       | F.U6              | X                | X       |           | X                |             |            |          |
| 9                       | F.U7              | X                | X       |           | X                |             |            |          |
| 10                      | F.U9              | X                |         |           | X                |             |            |          |
| 11                      | F.U11             | X                |         |           | X                |             |            |          |
| 12                      | F.U13             |                  | X       |           | X                |             |            |          |
| 13                      | F.U14             | X                | X       |           | X                |             |            |          |
| 14                      | F.U15             | X                | X       |           | X                |             |            |          |
| 15                      | K1                |                  |         |           | X                |             |            |          |
| 16                      | K2                |                  |         |           | X                |             |            |          |
| 17                      | K3                |                  |         |           | X                |             |            |          |
| 18                      | K4                |                  |         |           | X                |             |            |          |
| 19                      | K6                |                  |         |           | X                |             |            |          |
| 20                      | K9                |                  |         |           | X                |             |            |          |

| <b>Table presenting TEACHING PROGRAMME</b> |   |                     |  |
|--|---|---------------------|--|
| <b>No. of a teaching programme</b>         | <b>Teaching programme</b>   | <b>No. of hours</b> | <b>References to learning outcomes</b> |
| <b>Winter semester</b>                     |   |                     |  |
| <b>Lectures</b>                            |   |                     |  |
| TK 01                                      | Organization and work in modern dental practice according to ergonomics.  | 1                   |  |
| TK 02                                      | Dental pulp status examination methods. Epidemiologic indices- caries indices and oral hygiene indices – interpretation.  | 1                   |  |
| TK 03                                      | Patient examination   | 1                   |  |
| TK04                                       | Etiology of dental caries.  | 1                   |  |
| TK05                                       | Modern concept of caries treatment and prevention – assessment and prognosis of caries lesion risk development.   | 1                   |  |
| TK06                                       | Dental caries treatment with use of non-operative and operative treatment methods.  | 1                   |  |
| TK07                                       | Enamel and dentin adhesion. Bonding agents.   | 1                   |  |
| TK08                                       | Preparation of mineralized tissue to composite filling.   | 1                   |  |
| TK09                                       | The use of composite materials for direct reconstruction in the anterior and posterior parts of the dentition.  | 1                   |  |
| TK10                                       | Etiology, diagnosis and treatment of secondary caries. Secondary caries.  | 1                   |  |
| <b>Seminars</b>                            |   |                     |  |
| TK01                                       | Patient examination. Preventive and treatment plan. Extraoral and intraoral examination. Dental and general medical interview.<br><b>Student must present his own patient's plan.</b> | 3                   | U2, U9                                 |
| TK02                                       | Etiology and caries prevention in adults. Prognosis and determination of caries risk in adults. Caries detection.   | 3                   | U1, U2, U6, U12                        |
| TK03                                       | Minimally invasive dentistry.<br>The use of bonding systems and composite materials in the treatment of caries depending on the clinical situation                                    | 3                   | U1,U2,U6                               |
| <b>Practical classes</b>                   |   |                     |  |
| TK01                                       | Practical use of acquired knowledge of diagnosis and treatment of mineralized tissue during practical classes with patients   | 30                  | W1, W2,<br>U1-U12,<br>K1- K6           |
| <b>Summer semester</b>                     |   |                     |  |
| <b>Seminars</b>                            |   |                     |  |
| TK01                                       | Diagnostics, treatment and prevention of cervical lesion. Diagnostics and treatment of root caries. GIC   | 3                   | W1, U7, U12                            |

|                          |   |    |                        |
|--------------------------|---|----|------------------------|
| TK02                     | Deep caries – diagnostic, treatment methods. Role of dentin and lining material.  | 3  | W1, U7, U12            |
| TK03                     | Principles of frontal teeth composite reconstruction.   | 3  | W1, U3, U6, U12        |
| <b>Practical classes</b> |   |    |                        |
| TK01                     | Practical use of acquired knowledge of diagnosis and treatment of mineralized tissue during practical classes with patients | 30 | W1, W2, U1-U12, K1- K6 |
| <b>Lectures</b>          |   |    |                        |
| TK01                     | Dentine hypersensitivity (sensitivity). Etiology, diagnosis, treatment and treatment effectiveness.                         | 1  | W1, U7, U12            |
| TK02                     | Non-caries lesion- erosion  | 1  | W1, U7, U12            |
| TK03                     | Non caries lesion – abrasion, attrition.  | 1  | W1, U7, U12            |
| TK04                     | Communication with patient in dental office on the basis of hygienic procedures   | 1  | W1, U3, U7, U12        |
| TK05                     | Diagnostic and treatment of root caries   | 1  | W1, U3, U7, U12        |
| TK06                     | Reconstruction of II Black's classification cavities.   | 1  | W1, U7, U12            |
| TK07                     | Secondary caries.   | 1  | W1, U7                 |
| TK08                     | Repair of composite filling.  | 1  | W1, U7, U12            |
| TK09                     | Iatrogenic in dentistry   | 1  | W2, W1, U12            |
| TK10                     | Modern adhesive materials.  | 1  | W1, U12                |

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| <b>Booklist</b>   |
| Obligatory literature:  |
| 1. Pickard's manual of operative dentistry /Edwina A. M. Kidd, Bernard G. N. Smith, Timothy F. Watson. 9th ed. Oxford Oxford Univ. Press, cop. 2011. ISBN 978019957915  |
| 2. Essentials of dental caries: The disease and its management Edwina Kidd. 3rd ed. Oxford; New York: Oxford University Press 2005. ISBN 9780198529781  |
| Supplementary literature:   |
| 1. . Dental Caries: The Disease and Its Clinical Management Edwina Kidd, Ole Fejerskov: Blackwell 2008  |
| 2. Sturdevant's art and science of operative dentistry /senior ed. Theodore M. Roberson; co-eds. Harald O. Heymann, Edward J. Swift. Art and science of operative dentistry 6th ed. St. Louis Mosby Elsevier, cop. 2012. ISBN 9780323083331 |
| <b>Standards of procedures required to obtain credit:</b>   |
| Minimum of 6 fillings fully performed by the student  |

| <b>Student's workload</b>  |                        |
|--|------------------------|
| Form of student's activity<br>(in-class participation; activeness, produce a report, etc.) | Student's workload [h] |
|  | Tutor                  |
| Contact hours with the tutor   | 98                     |
| Time spent on preparation to seminars/ practical classess                                  | 20                     |
| Time spent on reading recommended literature   | 20                     |
| Time spent on writing report/making project  |                        |
| Time spent on preparing to colloqium/ entry test   | 50                     |
| Time spent on preparing to exam  |                        |
| Other .....  |                        |
| Student's workload in total  | 188                    |
| <b>ECTS credits for the subject (in total)</b>   | <b>7</b>               |
| <b>Remarks</b>   |                        |
|  |                        |

\* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloqium

R – report

S – practical skills assessment

RZC – practical classes report, incl. discussion on results

O – student's active participation and attitude assessment

SL – lab report

SP – case study

PS - assessment of student's ability to work independently

W – entry test

PM – multimedial presentation

other...