



Pomeranian Medical University in Szczecin

SYLLABUS of the MODULE (SUBJECT) General Information

| Module title: Preclinical Conservative Dentistry | |
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| Module type | <u>Obligatory</u> /Facultative (wybrać) |
| 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 2 , semester IV |
| ECTS credits (incl. semester breakdown) | 4 |
| Type/s of training | seminars (8h)/ practical classes (52h) |
| Form of assessment* | <input type="checkbox"/> graded assessment: <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input type="checkbox"/> test <input type="checkbox"/> practical <input type="checkbox"/> oral <input type="checkbox"/> non-graded assessment <ul style="list-style-type: none"> <input checked="" type="checkbox"/> final examination <ul style="list-style-type: none"> <input type="checkbox"/> descriptive <input checked="" type="checkbox"/> test <input checked="" type="checkbox"/> practical <input type="checkbox"/> oral |
| Head of the Department/ Clinic, Unit | Prof. dr hab. n. med. Mariusz Lipski |
| Tutor responsible for the module | Dr n. med. Katarzyna Kot fantom@pum.edu.pl 91-466-1630 |
| Department's/ Clinic's/ Unit's website | https://www.pum.edu.pl/wydzialy/wydzial-medycyny-i-stomatologii/katedra-i-zaklad-stomatologii-zachowawczej-przedklinicznej-i-endodoncji-przedklinicznej |
| Language | English |

* replace ☐ into ☒ where applicable

Detailed information

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| Module objectives | | Goal of preclinical conservative dentistry is teaching students how to diagnose and treat dental caries and how to restore destroyed crown's tissues due to caries and other diseases |
| Prerequisite /essential requirements | Knowledge | The student knows anatomy and histology of the teeth, the materials and the instruments used in conservative dentistry |
| | Skills | Work in accordance with the principles of ergonomics |
| | Competences | Habit of self-education; co-operate with team member |

| Description of the learning outcomes for the subject /module | | | |
|---|---|---|--|
| No. of learning outcome | Student, who has passed the (subject) knows /is able to /can: | SYMBOL (referring the standards) | Method of verification of learning outcomes* |
| W01 | knows and understands surface properties of tooth hard tissue and dental biomaterials | C.W26. | oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam |
| W02 | knows and understands adhesion and mechanism of developing adhesive joint and procedures for adhesive preparation of enamel, dentine and dental biomaterials surfaces | C.W27. | oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam |
| W03 | knows and understands basic clinical procedures for reconstruction of tooth hard tissue, endodontic treatment and methods and laboratory procedures for prosthetic restorations | C.W28. | oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam |

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| W04 | 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. | oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam |
| W05 | knows and understands indications and contraindications to esthetic procedures | F.W11. | oral thematic seminars, continuous assessment during classes/practical skills check, colloquium as well as oral, written and test credits, final test exam |
| U01 | is able to provide endodontic treatment and restore missing mineralized tissue of phantom tooth | C.U9. | assessed on classes practical exam |
| U02 | is able to apply adhesive techniques | C.U10. | assessed on classes practical exam |
| U03 | is able to select reconstructive, prosthetic and binding materials according to properties of materials and clinical conditions | C.U11. | assessed on classes practical exam |
| U04 | is able to formulate research problems in dentistry | F.U12. | oral thematic seminars |
| K01 | is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs | K.5. | assessed on classes |
| K02 | is ready to propagate health-promoting behavior | K.6. | assessed on classes |
| K03 | is ready to use reliable sources of information | K.7. | assessed on classes |
| K04 | is ready to assume responsibility related to decisions taken as a part of professional activity, also in terms of own safety and the safety of others | K.11. | assessed on classes |

Table presenting LEARNING OUTCOMES in relation to the form of classes

| No. of learning outcome | Learning outcomes | Type of training | | | | | | |
|-------------------------|---|------------------|---------|-------------------|------------------|-------------|------------|----------|
| | | Lecture | Seminar | Practical classes | Clinical classes | Simulations | E-learning | Other... |
| W01 | knows and understands surface properties of tooth hard tissue and dental biomaterials | | X | | | X | | |
| W02 | knows and understands adhesion and mechanism of developing adhesive joint and procedures for adhesive preparation of enamel, dentine and dental biomaterials surfaces | | X | | | X | | |
| W03 | knows and understands basic clinical procedures for reconstruction of tooth hard tissue, endodontic treatment and methods and laboratory procedures for prosthetic restorations | | X | | | X | | |
| W04 | knows and understands principles of management in the case of pulp diseases and mineralized dental tissues as well as teeth and facial bones trauma | | X | | | X | | |
| W05 | knows and understands indications and contraindications to esthetic procedures | | X | | | X | | |
| U01 | is able to provide endodontic treatment and restore missing mineralized tissue of phantom tooth | | | | | X | | |
| U02 | is able to apply adhesive techniques | | | | | X | | |
| U03 | is able to select reconstructive, prosthetic and binding materials according to properties of materials and clinical conditions | | | | | X | | |
| U04 | is able to formulate research problems in dentistry | | X | | | | | |
| K01 | is ready to notice and recognize own limitations, make self-assessment of educational deficits and needs | | | | | X | | |
| K02 | is ready to propagate health-promoting behavior | | | | | X | | |
| K03 | is ready to use reliable sources of information | | | | | X | | |
| K04 | is ready to assume responsibility related to decisions taken as a part of professional activity, also in terms of own safety and the safety of others | | | | | X | | |

| Table presenting TEACHING PROGRAMME | | | |
|-------------------------------------|--|--------------|---------------------------------|
| No. of a teaching programme | Teaching programme | No. of hours | References to learning outcomes |
| Summer semester | | | |
| Seminars | | | |
| TK01 | Basic information about vital pulp therapy- part I. Indirect pulp capping. Materials for indirect pulp capping. | 1 | W02, W03, W04 U04 |
| TK02 | Basic information about vital pulp therapy- part II. Direct pulp capping. | 1 | W02, W03, W04 U04 |

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| TK03 | Anatomy of upper first molar - rules for restoration occlusal surface- tools. | 2 | W01,W02,W03, W05 U04 |
| TK04 | Anatomy of lower first molar - rules for restoration occlusal surface- tools. | 2 | W01,W02,W03, W05 U04 |
| TK05 | Cheeking adjusting occlusion. | 2 | W02,W03,W05 U04 |
| Simulation | | | |
| TK01 | Theory: Environment of dental practice. Health and safety regulations. Disinfection and sterilization. Dental charting. Tooth notation. Basic dental instrumentation and materials. Moisture control – rubber dam. Classification of caries. Principles of cavity design and preparation. G.V. Black and Mount-Hume classification. | 4 | W01,W04, W05 U02,U03 K01,K02,K03, K04 |
| TK02 | Theory: Principles of cavity design and preparation. G.V. Black and Mount-Hume classification. C. incipiens, c. superficialis. Practice: widened fissure sealing – molar tooth | 4 | W01,W02,W05 U01,U02,U03 K01,K02,K03, K04 |
| TK03 | Theory: Ist class G.V.Black –cavity design. Amalgam principles of use. Dental cements. Practice: preparation of caries media on occlusal surface. Base - Glass Ionomer, filling – Amalgam. | 4 | W01,W03 U01,U02,U03 K01,K02,K03, K04 |
| TK04 | Theory: IInd class G.V.Black – cavity design. Matrix systems. Amalgam principles of use. Practice: carving and finishing amalgam from previous classes. Preparation of caries media on approximal surface of premolar tooth. Base- Glass Ionomer, filling – Amalgam. | 4 | W01,W03 U01,U03 K01,K02,K03, K04 |
| TK05 | Theory: Vth class G.V.Black –cavity design. Practice: carving and finishing amalgam from previous classes. Preparation of caries media on buccal surface of molar tooth. Base - Glass Ionomer, filling – Amalgam. | 4 | W01,W03 U01,U03 K01,K02,K03, K04 |
| TK06 | Theory: IIIrd class G.V. Black-cavity design. Differences in cavity preparation for amalgam and composite. Basic knowledge in composite and bonding techniques. Basic knowledge in color and shade analysis. Finishing of the composites. Practice: Carving and finishing amalgam from previous classes. Preparation of caries media on approximal surface without removal labial wall in anterior teeth. Filling – Composite. | 4 | W01,W02,W03, W05 U01,U02,U03 K01,K02, K03,K04 |
| TK07 | Theory: IIIrd class G.V. Black-cavity design. Differences in cavity preparation for amalgam and composite. Basic knowledge in composite and bonding techniques. Basic knowledge in color and shade analysis. Finishing of the composites. Practice: Carving and finishing amalgam from previous classes. Preparation of caries media on approximal surface with removal labial wall in anterior teeth. Filling – Composite. | 4 | W01,W02,W03, W05 U01,U02,U03 K01,K02,K03, K04 |
| TK08 | Theory: Differences in cavity preparation for GIC and composite in V class G.V.Black. Glass Ionomer Cements. Enamel preparation for aesthetic restorations. Practice: Preparation of caries media on labial surface of anterior tooth. Filling composite. Practice: Preparation of caries media on buccal surface of | 4 | W01,W02,W03, W05 U01,U02,U03 K01,K02,K03, K04 |

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| | premolar tooth. Filling glass ionomer. | | |
| TK09 | Theory: IVth class G.V.Black-cavity design. Enamel preparation for aesthetic restorations. Practice: Preparation of caries media on approximal surface of anterior tooth. Filling composite. | 4 | W01,W02,W03, W05 U01,U02,U03 K01,K02,K03, K04 |
| TK10 | Theory: Biological pulp treatment. Deep caries. Indirect pulp capping – indications contraindications, treatment technique, materials. Practice: preparation of deep caries on approximal surface of premolar tooth. Indirect pulp capping, filling –composite. | 3 | W01,W02,W03, W04,W05 U01, U02, U03 K01, K02, K03, K04 |
| TK11 | Theory: Biological pulp treatment. Deep caries. Direct pulp capping– indications contraindications, treatment technique. Practice: preparation of deep caries on approximal surface of molar tooth. Direct pulp capping, filling –composite | 3 | W01,W02,W03, W04,W05 U01, U02, U03 K01, K02, K03, K04 |
| TK12 | Theory: Anatomy of upper first molar - rules for restoration occlusal surface- tools. Practice: Preparation of caries media on mesio-occlusal-diastal cavity on tooth 16 or 26. Base-GIC, filling composite. | 2 | W01,W02,W03, W05 U01, U02, U03 K01, K02, K03, K04 |
| TK13 | Theory: Anatomy of lower first molar - rules for restoration occlusal surface- tools. Practice: Preparation of caries media on both proximal and occlusal surfaces on tooth 36 or 46. Base –GIC, filling composite. | 2 | W01,W02,W03, W05 U01,U02,U03 K01, K02, K03, K04 |
| TK14 | Cheeking adjusting occlusion. Rubber dam. | 2 | W01,W02,W03, W05 U01,U03 K01,K02, K03,K04 |
| TK15 | Summary. Practical exam. Rubber dam. | 4 | W01,W02,W03, W04,W05 U01,U02,U03 K01,K02,K03, K04 |

Booklist

Obligatory literature:

1. Garg N., Garg A.: Textbook of operative dentistry
2. Kidd E. A.M.: Pickard's Manual Of Operative Dentistry
3. Roberson T.M.: Art & Science of operative dentistry

Student's workload

| Form of student's activity (in-class participation; activeness, produce a report, etc.) | Student's workload [h] |
|--|------------------------|
| | Tutor |
| Contact hours with the tutor | 60 |

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| Time spent on preparation to seminars/ practical classess | 15 |
| Time spent on reading recommended literature | 15 |
| Time spent on writing report/making project | 0 |
| Time spent on preparing to colloquium/ entry test | 50 |
| Time spent on preparing to exam | 50 |
| Other | |
| Student's workload in total | 190 |
| ECTS credits for the subject (in total) | 4 |
| Remarks | |
| | |

* Selected examples of methods of assessment:

EP – written examination

EU – oral examination

ET – test examination

EPR – practical examination

K – colloquium

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...