Course Specifications
From the academic year 2020-2021 up to and including the Fundamentals of Indirect Reconstructive Dentistry (D012014)

Due to Covid 19, the education and evaluation methods may vary from the information displayed in the schedules and course details. Any changes will be communicated on Ufora.

Course size
- Credits 3.0
- Study time 90 h
- Contact hrs 20.0 h

Course offerings and teaching methods in academic year 2020-2021
- B (year)
  - Dutch, English
  - Lecture 10.0 h
  - Seminar 10.0 h

Lecturers in academic year 2020-2021
- De Coster, Peter
  - GE36 lecturer-in-charge
- Vandeweghe, Stefan
  - GE36 co-lecturer

Offered in the following programmes in 2020-2021
- Master of Science in Advanced Dentistry (main subject Endodontics) 3 B
- Master of Science in Advanced Dentistry (main subject Endodontics) 3 B
- Master of Science in Advanced Dentistry (main subject Reconstructive Dentistry) 3 B

Teaching languages
- Dutch, English

Keywords
- Indirect restorations, crowns, bridges, inlays, onlays, adhesive techniques, CAD-CAM technology.

Position of the course
This is an introductory course aiming at offering the student a thorough knowledge on different indications, contraindications, preparation techniques and registration techniques for the fabrication and instalment of indirect restorations on natural teeth. The student has to gain insight into the variety of materials and technologies which are involved in the fabrication of indirect restorations. The student is thought on the principles of differential diagnosis of cases towards selection of materials including ceramics, and cast or plastic materials. The student is encouraged to explore the digital workflow of the fabrication of indirect restorations, from the digital impression to the full chairside and in-lab CAD-CAM process. In addition, the focus will be placed on specific topics in restorative dentistry. Pre-reading of selected articles prior to attending the seminars is mandatory.

Contents

**A. Indications and clinical procedures for indirect dental restorations**
- Indications, contraindications and classification of indirect restorations
- Fundamentals of preparation for indirect restorations
- Partial restorations, crowns and bridges
- Impression taking, bite registration and temporary restorations
- Determination of colour, tooth shape and related techniques
- Factors influencing instalment of indirect restorations
- Complications
- Biological implications of indirect restorations

**B. Digital technologies for the fabrication of indirect dental restorations**
- Digitalizing clinical data and CAD-CAM systems
- Intra-oral versus in-lab digital registration
- Chairside versus in-lab CAD-CAM fabrication

**C. Selected topics**

(Approved)
1. Ceramics material selector: indications and cementation
2. Lab workflow: analogue versus digital
3. Shade selection: the VITA® 3D Shade Guide
4. Partial indirect restorations: inlays and onlays
5. Contamination of margins incl. margin elevation
6. Extreme isolation for cementation procedures
7. Preparation design and longevity of C&B
8. Adhesive cantilever FDP in the anterior region

Initial competences
- Master of science in dentistry

Final competences
- 1 To have a thorough knowledge on indications, contraindications and techniques of indirect restorations on natural teeth
- 2 Be able to prepare and install indirect restorations on a rational basis.
- 3 Understand the interrelation between composition, structure and processing of materials used for the fabrication of indirect restorations
- 4 To have an insight into the digital workflow of CAD-CAM fabrication of indirect restorations

Conditions for credit contract
- This course unit cannot be taken via a credit contract

Conditions for exam contract
- This course unit cannot be taken via an exam contract

Teaching methods
- Lecture, seminar

Extra information on the teaching methods
- Lectures, tutorials, preclinical demonstration and exercises

Learning materials and price
3. Hand-outs
4. Reference articles

References

Course content-related study coaching
- Response colleges and after consultation with lecturer

Evaluation methods
- end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period

Examination methods in case of periodic evaluation during the second examination period

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
- examination during the second examination period is possible in modified form

Extra information on the examination methods
- Written examination, oral examination, practical examination.
  Evaluation of clinical cases via portfolio
  Evaluation of input during tutorials

Calculation of the examination mark

(Approved)