Course Specifications
From the academic year 2020-2021 up to and including the
Fundamentals of Direct Reconstructive Dentistry (D012013)

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
(nominal values; actual values may depend on programme)

<table>
<thead>
<tr>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
</tr>
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<tbody>
<tr>
<td>3.0</td>
<td>90 h</td>
<td>20.0 h</td>
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</tbody>
</table>

Course offerings in academic year 2020-2021

| B (year) | Dutch, English | Gent |

Lecturers in academic year 2020-2021

De Coster, Peter

GE36

lecturer-in-charge

Offered in the following programmes in 2020-2021

<table>
<thead>
<tr>
<th>credits</th>
<th>offering</th>
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<tbody>
<tr>
<td>3</td>
<td>B</td>
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<tr>
<td>3</td>
<td>B</td>
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</table>

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

Direct restorations, adhesive techniques, tooth bleaching.

Position of the course

The student gains thorough knowledge on different indications, contraindications, preparation techniques and registration techniques for the fabrication of direct restorations on natural teeth.

The student has to gain insight into the variety of materials and technologies which are involved in the fabrication of direct restorations.

The student is thought on the principles of minimal invasive dentistry for the restoration of teeth with loss of substance due to decay, erosion, abrasion, demastication and abfraction in a tooth substance saving way.

In this respect, the student becomes confident of the aspects of adhesive dentistry and different systems demanding the retention of filling materials, and of the tooth substance saving restoration of endodontically treated teeth with or without posts.

The student has to gains insight into the principles and techniques for bleaching teeth.

Contents

**A. Indications and clinical procedures for direct dental restorations**

a. Diagnosis and Indications for direct restorations

b. Fundamentals of preparation for direct (adhesive) restorations and concepts of adhesive dentistry

c. Esthetic restoration and reconstruction of teeth (determination of color, tooth shape, mock-up, digital photography) – tooth whitening and bleaching

d. Factors influencing the adhesion and retention of direct restorations e. Limits of direct (adhesive) restorations and the impact of occlusion and wear on the survival of direct (adhesive) restorations

f. Restoration of teeth of mouths with extensive loss of tooth substance, especially due to erosion, abrasion and demastication

g. Biological aspects and implications of direct (adhesive) restorative materials and restorations

**B. Materials for direct dental restorations**

a. Is there still a place for metal direct restorations ?

b. Adhesive materials (bonding systems, dental resin composites and glasionomer cements)
c. Biocompatibility and influence on health with direct (adhesive) restorations
d. Pulpal and para-pulpal pins

Initial competences

   Master of science in dentistry or equivalent degree

Final competences

   1 To have a thorough knowledge on indications, contraindications and techniques of direct restorations on natural teeth
   2 Be able to prepare and install direct restorations on a rational basis taking into account the limitations of direct restorative materials.
   3 To have insight in extensive esthetic restoration and extensive rehabilitation of mutilated teeth with adhesive direct restorative materials
   4 To provide after-care with direct restorations
   5 Understand the interrelation between composition, structure and processing of materials used for the fabrication of direct 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

Extra information on the teaching methods

   Lectures, tutorials, preclinical demonstration and exercises

Learning materials and price

   6 Handouts courseslides
   7 Reference articles

References

   6 Reference publications

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

   Portfolio, assignment

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

   Assignment, skills test

(Approved)
Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
not applicable

Extra information on the examination methods
First period:
Permanent evaluation and periodical examination Examination methods in case of periodic evaluation: Paper (60%) - Evaluation of preclinical cases (20%) - Evaluation of input during tutorials (20%)
Second period:
Paper (70%)
Preclinical test - full day (30%)

Calculation of the examination mark