



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Prosthetic and Laboratory Technologies

2021-3-H4601D015-H4601D041M

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#### Aims

Give knowledge regarding Dental Aesthetics and Prosthetic Materials.

Examine the properties of different prosthetic products from an aesthetic, biological, phonetic and bio mechanical point of view.

Compare construction techniques especially about CAD CAM technology.

#### Contents

Review of the cranio facial and dental anatomy giving particular attention to the aesthetic and phonetic aspects.

Study of the physical, biological and mechanical properties of commonly used materials in Prosthodontics and their correlation with different types of prosthetic devices.

Analysis of different types of dental devices.

Principles of construction of dental devices.

Digital design and manufacturing techniques with indications for the use of different materials.

#### Detailed program

##### Lectures:

- Study of dental anatomy and TMJ

- Study of masticatory biomechanics
- Principles of dento-labial aesthetics and phonetics and their correlations with the spatial position of the teeth
- Analysis of physical, chemical, biological and mechanical properties of dental materials
- Practical application of different materials properties in relation to different prosthetic devices
- Dental laboratory steps
- Clinical application of different prosthetic devices
- Clinical indications of different prosthetic plan of treatments

#### **Laboratory classes:**

- Orthogonal drawing of teeth
- Soap carving of teeth (scale 4:1)

#### **Prerequisites**

Give knowledge of dental materials fundamental properties and stomatognathic system anatomy.

#### **Teaching form**

Frontal lectures and practical classes

#### **Textbook and teaching resource**

Title: La riabilitazione estetica in protesi fissa

Author: Fradeani Mauro - Barducci Giancarlo

Editor: Quintessenza

Title: Estetica e precisione. Procedure cliniche e di laboratorio

Author: Massironi Domenico - Pascetta Romeo - Romeo Giuseppe

Editor: Quintessenza

Title: Tecnologia dei materiali dentali

Author: Simionato Francesco

Editor: Piccin-Nuova Libreria

#### **Semester**

Second Semester

**Assessment method**

Oral exam and evaluation of the drawings and carved teeth

**Office hours**

Wednesday from 8.30 to 10.00 by appointment

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