

MASTER COURSE IN DIGITAL DENTISTRY

II Level
Master

Organized by **Digital Dentistry Society**
and **International University UniCamillus** of Rome



Digital
Dentistry
Society



UNICAMILLUS
International Medical University in Rome



Today's **dentistry** is **increasingly digital**.

Intraoral, desktop and facial scanners, digital condylographs, CBCT allow to acquire all the data 3D patient. These data, reworked and aligned automatically by **artificial intelligence software**, allow to obtain a virtual 3D model of the patient.

The **virtual patient** is an essential tool for diagnosis, assisted by artificial intelligence, and for the planning of surgical, prosthetic and orthodontic treatments. The software, together with modern systems of virtual and augmented reality (holography) allow to plan the treatment in 3D and discuss it, too remotely, with the dental laboratory; furthermore, they represent key tools for communication with the patient. Finally, thanks to tools such as milling machines, 3D printers and laser sintering units is possible to realize fixed and removable prosthetic restorations, models and templates surgical, bite splints and orthodontic devices to use in clinical application.

Digital technologies transform dentistry, increasing diagnostic accuracy and the appropriateness of therapies. The procedures become *minimally invasive* and *biologically-inspired*. Ceramic materials are used, which guarantee exceptional performance in the biological and aesthetic field, and the patient is increasingly at the center of therapeutic treatment, thanks to the use of custom-made solutions, designed and built for the specific anatomical-functional needs of the cases.

The **II level Master Course** organized by Digital Dentistry Society (DDS) and International University UniCamillus of Rome aims to provide participants solid knowledge, and a robust practical training, **to face as real protagonists the digital revolution**.

DURATION:

seven meetings of three days each

GUARANTEED CREDITS: 60 CFU

NUMBER OF PARTECIPANTS:

maximum 20

REGISTRATION FEE: € 8.000,00

PROGRAM & MODULES

60
CFU

The master's course will be held at the **Tuscan Dental Institute**
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Director: Prof. Carlo Mangano

MODULE 1

From Data 3D to the Virtual Patient

- ◆ Intraoral transfer
- ◆ Facial scan
- ◆ Cone beam computed tomography (CBCT)
- ◆ Digital condylography
- ◆ Artificial intelligence
- ◆ Virtual and augmented reality
- ◆ Holographic systems

First Meeting 15-17 September 2022
Second Meeting 20-22 October 2022

MODULE 2

The Digital Prosthesis

- ◆ Materials technology
- ◆ Fixed prosthesis on natural teeth and implants
- ◆ Removable prosthesis
- ◆ Chairside protocols
- ◆ Digital Smile Design (DSD)
- ◆ 3D printers and milling machines
- ◆ 3D printing of ceramics

Third Meeting 10-12 November 2022
Fourth Meeting 15-17 December 2022

MODULE 3

Surgery in the Digital Age

- ◆ Static guided implant surgery
- ◆ Dynamic guided implant surgery
- ◆ Techniques of laser sintering and 3D printing of metals
- ◆ Custom-made implants: subperiosteal, Zygomatic and pterygoids, root analogues
- ◆ Customized meshes for bone regeneration
- ◆ Custom-made onlay scaffolds for bone regeneration

Fifth Meeting 19-21 January 2023
Sixth Meeting 16-18 February 2023

MODULE 4

Orthodontics and Digital Gnathology

- ◆ Digital orthodontics
- ◆ Custom devices in orthodontics
- ◆ Aligner technology
- ◆ 3D study of the temporomandibular joint
- ◆ Digital condylography in the dysfunctional patient
- ◆ Printing and milling of bite splints

Seventh Meeting 23-25 March 2023
Thesis Discussion 22 April 2023
(live and shared live on social media)

LECTURERS:

Christian Coachman, Alessandro Cucchi, Luigi De Stefano, Roberto Fornara, Luca Goisis, Francesco Grecchi, Mario Imburgia, Henriette Lerner, Fabrizia Luongo, Giuseppe Luongo, Carlo Mangano, Francesco Mangano, Giuseppe Marano, Giovanna Perrotti, Adriano Piattelli, Carlo Poggio, Francesco Ravasini, Riccardo Scaringi, Luigi Stefanelli, Simona Tecco, Matteo Valoriani, Tommaso Weinstein, Umberto Zanetti, Fernando Zarone