

MASTER PROGRAMME **LASERS IN DENTAL MEDICINE**

in partnership with European Master Degree in Oral Laser Applications **EMDOLA**



- ❖ The **EMDOLA** master programme is the result of a scientific collaboration among the teachers of several university centres in the EU. This project has been operational for more than 10 years in **Liege, Barcelona, Parma, Rome, Timișoara and Wrocław**.
- ❖ These universities offer a joint study plan for **2 years**. The course is delivered only in English. At the end of the programme, the students obtain two master diplomas: one from the host university and the second one from the European Master's Degree of Oral Application of Laser.
- ❖ The programme comprises **889 hours** in total (441 hours / first year; 448 hours / second year). Of the total hours, some are dedicated to theoretical courses and the rest will be divided into the following activities: **workshops, lab hours, internships, teaching activities, individual study**
- ❖ The master degree finalizes with a master thesis defense, which will take place at the end of the second year.

- **Registration period: 12 Sept 2025 – 18 Sept 2025, until 2:00 pm** (online registration and submission of files)
- **Places: 10 (Romanian and UE citizens) + 4 places Non-UE citizens**
- **Date of the interview: 22 Sept 2025**

CONTACT:

www.umft.ro - "Master Studies" section

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Coordinators of master programme

Assoc. Prof. Dr. Mariana Ioana Miron, PhD

Prof. Dr. Cosmin Sinescu, PhD

Coordinator for EMDOLA programme

Prof. Dr. Darinca Carmen Todea, PhD

MASTER PROGRAMME

"Victor Babeș" University of Medicine and Pharmacy Timișoara
FACULTY OF DENTAL MEDICINE

”LASERS IN DENTAL MEDICINE”

in partnership with

**European Master Degree in Oral Laser Applications
(EMDOLA)**

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EMDOLA PROGRAMME DIRECTORS:

- *Prof. Dr. Samir Nammour, PhD, University of Liege, Belgium*
- *Prof. Josep Arnabat, PhD, University of Barcelona, Spain*
- *Prof. Dr. Paolo Vescovi, PhD, University of Parma, Italy*
- *Prof. Dr. Umberto Romeo, PhD, University of Rome “La Sapienza”, Italy*
- *Prof. Dr. Darinca Carmen Todea, University of Medicine and Pharmacy
” Victor Babeș” Timișoara, Romania*
- *Prof. Dr. Kinga Grzech-Lesniak, PhD, Wroclaw University of Medicine, Poland*



OBJECTIVES

The main purpose of the master degree is to implement scientific and clinical knowledge based on optics, laser physics, laser-tissue interaction, as well as its properties with applications in various fields of dentistry. Moreover, the practical and theoretical aspects of the course will emphasize the advantages, disadvantages and limitations of the various therapeutic methods performed conventionally or using a laser.

DESCRIPTION OF THE MASTER DEGREE

The **EMDOLA** master programme is the result of a scientific collaboration among the teachers of several university centres in the EU. This project has been operational for more than 10 years in *Liege, Barcelona, Parma, Rome, Timișoara and Wroclaw*.

These universities offer a joint study plan for 2 years. The course is delivered only in English. At the end of the programme, the students obtain two master diplomas: one from the host university and the second one from the European Master's Degree of Oral Application of Laser.

The programme comprises 889 *hours* in total (441 hours / first year; 448 hours / second year). Of the total hours, some are dedicated to theoretical courses and the rest will be divided into the following activities: - **Workshops**

- **Lab hours**
- **Internships**
- **Teaching activities**
- **Individual study**

The master degree finalises with a master thesis defense, which will take place at the end of the second year. The subjects involve conventional treatments compared to laser-assisted ones in different fields of dentistry: limitations, advantages and disadvantages.

TUITIONS FOR ROUMANIAN AND EU CITIZENS

1. **Registration period:** **12 Sept 2025 – 18 Sept 2025**, until 2:00 pm (online registration and submission of files)
2. **Places:** **10 (Romanian and EU citizens) + 4 places Non-EU citizens**
3. **Registration Fee for the Entrance Exam:** **300 lei**, is non-refundable and must be paid either on the online admission platform (by credit card), or in cash/ via bank transfer in the University account open at Trezoreria Timișoara: RO29TREZ62120F330800XXXX cod fiscal (tax identification number): 4269215, with the following observations: ***”registration fee - name, surname, study program”***
4. **Place Confirmation:** **500 lei**, is non-refundable and must be paid either on the online admission platform (by credit card), or in cash/ via bank transfer in the University account open at Trezoreria Timișoara: RO29TREZ62120F330800XXXX cod fiscal (tax identification

number): 4269215, with the following observations: *”confirmation fee – name, surname, year of study, study program”*

5. Tuition Fee: 6,000 lei/ year. The candidates declared admitted in the master studies programs must pay the tuition fee according to the Regulations on Fees and Charges, **in full, within the place confirmation period**, either on the online admission platform (by credit card), or in cash/ via bank transfer in the University account open at Trezoreria Timișoara: RO21TREZ62120F330500XXXX cod fiscal (tax identification number): 4269215, with the following observations: *”tuition fee – name, surname, year of study, study program”*

Tuition Fee Proof of Payment: copy of receipt/ copy of payment order **mandatory** to be uploaded in the candidate account no later than the deadline of the tuition payment date. Failure to pay the tuition fee until the deadline leads to loss of the place obtained through entrance examination and redistribution of the places that thus become vacated.

6. Duration: 2 years

7. Number of Credits: 60 / year (120 in total)

8. The Entrance Examination consists of: interview

TUITIONS FOR FOREIGN CITIZENS COMING FROM THIRD COUNTRIES (NON-EU CPV)

- **File Processing Fee** (non-refundable in case of file processing, respectively if the documents uploaded online have been verified): **€ 200**, non-refundable;
- **Confirmation of Place/ Option/ Program Fee:** **€ 300**, non-refundable;
- **Enrollment Fee:** **100 lei**, paid in cash at the University cashier office, upon final registration for studies;
- **Tuition Fee (studies)/ Year of Study/ Study Program:** **€ 2,500 / year**, must be uploaded on the online admission platform until the registration deadline, within the deadline for place confirmation.

The following will be taken into consideration during the interview:

- a. The motivation for choosing this master program, based on subsequent achievements in the field (e.g. bachelor degree, dissertation, doctoral thesis in a similar field).
- b. Skills in linguistic communication (English), on a scientific topic proposed by the candidate (e.g. from the candidate's bachelor thesis or doctoral thesis).

9. Conditions for registration in the competition:

- a. Romanian and foreign citizens, graduates with a bachelor degree or any of its correspondents must mention the number of years of study, the institute they graduated from and the year in which they obtained the bachelor degree or its correspondent.
- b. Certificate of English language proficiency, minimum level B2

10. Date of Interview: **22 Sept 2025**

EDUCATIONAL ACTIVITIES – MANDATORY SUBJECTS 1ST YEAR

Optics 1
Optics 2
Laser Physics
Laser Safety
Lasers Properties
Laser Applications in Dentistry
Laser-tissue Interaction
Optical Coherence Tomography (OCT)
Diagnostic, Laser Fluorescence
Laser Doppler Flowmetry
Laser in Preventive Dentistry
Laser in Dental Therapy, Dental Hypersensitivity
Pulp capping, Laser in Endodontics: Biomechanical Treatment, laser – assisted
Laser in Pedodontics
Specialized practice (15 days in July and August, after the end of the summer session, 8 hours/ day; it is marked with admitted/ failed)

<i>Optional Disciplines - 1st year</i>
Laser Treatment for Patients with Medical Risk
Laser-assisted Emergency Dentistry
The Laser in the Digital Era
Laser-assisted Treatment for Patients with Special Needs

EDUCATIONAL ACTIVITIES – MANDATORY SUBJECTS 2ND YEAR

Photodynamic Therapy
Photobiomodulation (LLLT)
Laser in Periodontology
Laser in Oral Surgery
Laser in Implantology
Laser in Dental Prosthetics and Dental Aesthetics
Laser in Orthodontics
Research Methodology in Laser-assisted Dentistry
Laser in Dental Technology
Jurisprudence, Medical Ethics
Healthcare Management in Dentistry
Laboratory Practice and Research
Clinical Practice and Research
Elaboration of Dissertation Thesis

<i>Optional Disciplines - 2nd year</i>
Biotechnologies Complementary to Laser Therapy
Laser-assisted Acupuncture Therapy
Laser Treatments Dedicated to the Oro-facial Area
Applications of Laser Microscopy

Lecturers

Prof. Dr. Carmen Todea, PhD – EMDOLA programme director

Assoc. Prof. Dr. Mariana Ioana Miron, PhD - programme coordinator

Prof. Dr. Cosmin Sinescu, PhD – programme coordinator

Prof. Dr. Meda-Lavinia Negruțiu, PhD

Prof. Virgil-Florin Duma, PhD

Prof. Adrian Neagu, PhD

Prof. Dr. Diana Lungeanu, PhD

Prof. Dr. Liliana Porojan, PhD

Prof. Dr. Alexandra Enache, PhD

Prof. Dr. Daniela Jumanca, PhD

Prof. Dr. Emanuela Petrescu, PhD

Assoc. Prof. Dr. Marius Ștef, PhD

Assoc. Prof. Dr. Cristina Bratu, PhD

Assoc. Prof. Dr. Marius Leretter, PhD

Assoc. Prof. Dr. Mălina Popa, PhD

Lect. Dr. Liliana Lighezan, PhD

Lect. Dr. Diana Nica, PhD

Lect. Dr. Daliana Bojoga, PhD

Lect. Dr. Ruxandra Luca, PhD

Lect. Dr. Cristian Zaharia, PhD

Assist. Prof. Dr. Bogdan Hoinoiu, PhD

Assist. Prof. Dr. Roxana Munteanu, PhD

Assist. Prof. Dr. Edmond Ciora, PhD

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UNIVERSITATEA
DE MEDICINĂ ȘI FARMACIE
„VICTOR BABEȘ” DIN TIMIȘOARA

HEADQUARTERS OF THE ROMANIAN „LASERS IN DENTAL MEDICINE” EMDOLA MASTER
PROGRAMME, UNIVERSITY CLINIC OF ORAL REHABILITATION AND DENTAL EMERGENCIES,
FACULTY OF DENTAL MEDICINE, TIMISOARA



EMDOLA MASTER







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