

CURRICULUM–1st year
2026-2027

HIGHER EDUCATION INSTITUTION			“VICTOR BABEȘ” UNIVERSITY OD MEDICINE AND PHARMACY TIMISOARA					SPECIALIZATION					LASERS IN DENTAL MEDICINE				
FACULTY			FACULTY OF DENTISTRY					GRADUATE TITLE					MASTER OF SCIENCE (MSc) IN LASERS IN DENTAL MEDICINE				
FIEL OF STUDY			DENTISTRY					STUDY PERIOD					2 YEARS				
CYCLE OF STUDY			MASTER					TRANSFERABLE STUDY CREDITS					60 (MANDATORY, OPTIONAL)				
No.	Educational activities Discipline		Tip DAP/ DSI/ DCA	I Semester					II Semester					Total university (28 weeks)			
	Mandatory subjects			Cs.	L.P	Sem.	CST	Forma verif.	Cs.	L.P	Sem.	CST	Forma verif.	Cs.	L.P	Sem	CST
1.	Optics 1		DSI	1	2	-	3	C	-	-	-	-	-	14	28	-	3
2.	Optics 2		DSI	1	-	-	1	C						14	-		1
3.	Laser Physics		DSI	1	1	-	4	E	-	-	-	-	-	14	14	-	4
4.	Laser Safety		DSI	1	1	-	4	E	-	-	-	-	-	14	14	-	4
5.	The properties of lasers		DSI	1	1,5	-	5	E	-	-	-	-	-	14	21	-	5
6.	Laser Applications in Dentistry		DSI	1	1,5	-	6	E	-	-	-	-	-	14	21	-	6
7.	Laser-tissue Interaction		DSI	1	1	-	6	E						14	14	-	6
8.	Optional Discipline		DCA	0,5	-		1	C						7	-		1
9.	Optical Coherence Tomography (OCT)		DSI						1	1	-	2	C	14	14	-	2
10.	Diagnostic, Laser Fluorescence		DSI						1	1,5	-	4	E	14	21	-	4
11.	Laser Doppler Flowmetry		DSI						1	0,5	-	1	C	14	7	-	1
12.	Laser in Preventive Dentistry		DSI						1	0,5	-	4	E	14	7	-	4
13.	Laser in Dental Therapy, Dental Hypersensitivity		DCA						1	1	-	4	E	14	14	-	2
14.	Pulp capping, Laser in Endodontics: biomechanical treatment, laser–assisted		DCA						1,5	1,5	-	6	E	21	21	-	6
15.	Laser in Pedodontics		DCA						1	2	-	6	E	14	28	-	6
16.	Optional Discipline		DCA						0,5	-		1	C	7			1
17.	Specialized practice (15 days in July and August, after the end of the summer session, 8 hours /day; it is marked with admitted /reicted)								-	-	-	2	C	-	120	-	2
	Optional Disciplines																
18	Laser Treatment for Patients with medical risk		DCA	0,5	-		1	C						7	-		1
19.	Laser-assisted emergency dentistry		DCA	0,5	-		1	C						7			1
20.	The laser in the digitization era		DCA						0,5	-		1	C	7			1
21.	Laser-assisted treatment for patients with special needs		DCA						0,5	-		1	C	7	-		1
	GENERAL TOTAL			7,5	8	-	30	5 E 3 C	8	8	-	30	5 E 4 C	217	344	-	60
	TOTAL HOURS /CREDITS/SEMESTER/YEAR			217/30/I					224/30/II					561/60/I+II			

Theory/practical activity report

DAP (in-depth discipline) / **DSI** (synthesis discipline) / **DCA** (advanced knowledge discipline);

E-exam; **C**-colloquium; **Cs**-course; **L.P.**- practical activity; **Sem**-seminar; **CST**-transferable study credits

Rector

Prof.univ.dr. Octavian –Marius Crețu

Didactic Vice-rector

Prof.univ.dr.Daniel Lighezan

Dean

Prof.univ.dr. Meda-Lavinia Negruțiu

Program Coordinators

Conf.univ.dr. Mariana-Ioana Miron

Prof.univ.dr. Cosmin Sinescu

CURRICULUM – IInd YEAR
2027-2028

HIGHER EDUCATION INSTITUTION	"VICTOR BABEȘ" UNIVERSITY OD MEDICINE AND PHARMACY TIMISOARA	SPECIALIZATION	LASERS ÎN DENTAL MEDICINE
FACULTY	FACULTY OF DENTISTRY	GRADUATE TITLE	MASTER OF SCIENCE (MSc) IN LASERS IN DENTAL MEDICINE
FIEL OF STUDY	DENTISTRY	STUDY PERIOD	2 YEARS
CYCLE OF STUDY	MASTER	TRANSFERABLE STUDY CREDITS	60 (MANDATORY, OPTIONAL)

No.	Educational activities Discipline	Tip DAP/ DSI/ DCA	I Semester					II Semester					Total university (28 weeks)			
	Mandatory subjects		Cs.	L.P	Sem.	CST	Forma verif.	Cs.	L.P	Sem.	CST	Forma verif.	Cs.	L.P	Sem.	CST
1.	Photodynamic therapy	DCA	1	0,5	-	2	C						14	7	-	5
2.	Low level energy laser therapy;	DSI	1,5	2	-	6	E						21	28	-	7
3.	Laser in Periodontology	DCA	1	0,5	-	5	E						14	7	-	5
4.	Laser in Oral Surgery	DCA	1,5	2	-	6	E						21	28	-	7
5.	Laser in Implantology	DCA	1	1	-	5	E						14	14	-	7
6.	Laser in Dental Prtosthetics and Dental Aesthetics	DCA	1	1	-	3	C						14	14	-	7
7.	Laser in Orthotontics	DCA	1	0,5	-	2	C						14	7	-	6
8.	Optional Discipline	DCA	0,5	-		1	C									1
9.	Research methodology in laser-assisted dentistry	DAP						1	1	-	2	C	14	14	-	4
10.	Laser in Dental Technique	DSI						0,5	0,5	-	2	C	7	7		4
11.	Jurisprudence, Medical Ethics	DAP						1	-	-	5	E	14	-	-	5
12.	Healthcare management in dentistry	DAP						1	-	-	2	C	14	-		4
13.	Laboratory practice and research	DAP						1,5	2	-	6	E	21	28	-	7
14.	Clinical practice and research	DAP						1	2	-	6	E	14	28	-	7
15.	Elaboration of dissertation thesis	DCA						-	4	-	6	E	-	56	-	7
16.	Optional Discipline	DCA						0,5	-		1	C				1
	<i>Optional Disciplines</i>															
17.	Biotechnologies complementary to laser therapy	DCA	0,5	-		1	C						7	-		1
18.	Laser-assisted acupuncture therapy	DCA	0,5	-		1	C									
19.	Laser treatments dedicated to the oro-facial area	DCA						0,5	-		1	C	7	-		1
20.	Applications of laser microscopy	DCA						0,5	-		1	C				
	GENERAL TOTAL		8,5	7,5	-	30	4 E 4 C	6,5	9,5	-	30	4 E 4 C	210	238	-	60
	TOTAL ORE/CREDITE/SEMESTRU/AN		224/30/I					224/30/II					448/60/I+II			
21	Promotion of the dissertation theisis	DCA									10*	E				10

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*** CREDITS are granted beyond the mandatory ones and cannot be transferred to reach the number of mandatory credits.**

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