

MINISTERUL EDUCAȚIEI

Universitatea de Medicină și Farmacie "Grigore T. Popa" din Iași

Facultatea de Bioinginerie Medicală

Domeniul: ȘTIINȚE INGINERESTI APLICATE

Specializarea: BIOMEDICAL ENGINEERING

Ciclul de studii: Ciclul II - MASTERAT

1st Year

PLAN DE ÎNVĂȚĂMÂNT

An universitar 2021-2022

No.	Name of discipline	Disc. type	Code of discipline	1st Semester				2nd Semester				Total hours per year					ECTS		Evaluation System	
				Hours per week				Hours per week				C	PL	S	Pr	SI	1st Sem	2nd Sem		
				C	PL	S	Pr	C	PL	S	Pr									
1	Functional Anatomy	DA	B2601	1	1							14	14	0	0	72	4		E1	
2	Applied Physiology	DA	B2602	1	1							14	14	0	0	72	4		E1	
3	Applied biochemistry and cell biology	DA	B2603	2	2							28	28	0	0	44	4		E1	
4	Biomedical Data Analysis	DA	B2604	2	2							28	28	0	0	44	4		E1	
5	Advanced Bioengineering Methods Laboratory	DA	B2605	2	2							28	28	0	0	69	5		E1	
6	Research methods in biomedical engineering. Ethics and academic integrity	DS	B2606	1			1					14	0	0	14	72	4		C1	
7	Biomedical Materials	DA	B2607					2	2			28	28	0	0	69		5	E2	
8	Biotechnology and Biosafety	DA	B2608					2	2			28	28	0	0	69		5	E2	
9	Hospital Medical Equipment	DA	B2609					2	2			28	28	0	0	69		5	E2	
10	Management and Entrepreneurship.	DA	B2610					1	1			14	14	0	0	72		4	C2	
	<b>Conditionally Elective courses</b>																			
11A	Biomimetics and Bio-inspired Structures	DS	B2611																	
11B	Cellular Toxicology	DS	B2612																	
11C	Health Technology Management	DS	B2613					2	2			28	28	0	0	94		6	C2	
11D	Pharmaceutical analysis of bioactive compounds	DS	B2614																	
11E	Metrology and Certification of medical devices	DS	B2615																	
11F	Micro & Nanotechnologies for Medical Applications	DS	B2616																	
12	Profesional Practice	DS	B2617				8				8					224	26	5	5	C1,C2
	<b>Total hours per week</b>			9	8	0	9	9	9	0	8									
	<b>Total hours/ECTS per year</b>			26				26				252	238	0	238	772	30	30	8E, 5C	

RECTOR,  
Prof. Univ. Dr. Viorel Scripcariu

DECAN,  
Prof. Univ. Dr. Anca-Irina Galaction

Secretar șef facultate,  
Ing. Petruța Flocea

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Specializarea: BIOMEDICAL ENGINEERING

Ciclul de studii: Ciclul II - MASTERAT

2nd Year

PLAN DE ÎNVĂȚĂMÂNT

An universitar 2021-2022

No.	Name of discipline	Disc. type	Code of discipline	1st Semester				2nd Semester				Total hours per year					ECTS		Evaluation System
				Hours per week				Hours per week				C	PL	S	Pr	SI	1st Sem	2nd Sem	
				C	PL	S	Pr	C	PL	S	Pr								
1	Clinical applications of medical devices	DA	B2618	3	3							42	42	0	0	66	6		E1
2	Translational Medicine	DS	B2619	1	1							14	14	0	0	72	4		E1
	<b>Conditionally Elective courses</b>																		
	<b>TRACK A</b>																		
3A	Advanced Biosignal & Medical Image Processing	DS	B2620	2	2							28	28	0	0	44	4		E1
4A	Assitive devices and technologies	DS	B2621	2	2							28	28	0	0	44	4		E1
5A	Radiation therapy and Dosimetry	DS	B2622	1	2							14	28	0	0	58	4		E1
6A	Telemedicine & e-health	DS	B2623	1	1							14	14	0	0	72	4		C1
	<b>TRACK B</b>																		
3B	Tissue Engineering and Regenerative Medicine	DS	B2624	2	2							28	28	0	0	44	4		E1
4B	Functional biomechanics, prosthesis and implants	DS	B2625	2	2							28	28	0	0	44	4		E1
5B	Biomaterials biocompatibility	DS	B2626	1	1							14	14	0	0	72	4		E1
6B	Implant design and Technology	DS	B2627	1	2							14	28	0	0	58	4		C1
	<b>TRACK C</b>																		
3C	Bioprocess Design	DS	B2628	1	2							14	28	0	0	58	4		E1
4C	Laboratory clinical analysis	DS	B2629	2	2							28	28	0	0	44	4		E1
5C	Quality insurance by Good Manufacturing Practice/Good Laboratory Practice	DS	B2630	1	1							14	14	0	0	72	4		C1
6C	Cosmetics and Pharmaceuticals Biotechnologies	DS	B2631	2	2							28	28	0	0	44	4		E1

7	Profesional Practice	DS	B2632				5							70	30	4		C1	
8	Practice for Preparation of Master Thesis	DS	B2633							4				60	40		4	C2	
9	Preparation of Master Thesis	DS	B2634							22				308	342		26	C2	
<b>Total hours per week</b>				10	11	0	5	0	0	0	26	140	154	0	438	768	30	30	5E, 4C
<b>Total hours/ECTS per year</b>				26			26												
<b>Master's Thesis Defense</b>		DS	B2635														10		

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