

BIOMEDICAL ENGINEERING, 2nd CYCLE (MASTER)
Specialty: INFORMATICS IN MEDICINE

	Hours						I						II						III						
Common courses	Suma	W	C	L	P	SEM	W	C	L	P	E	ECTS	W	C	L	P	E	ECTS	W	C	L	P	SEM	E	ECTS
1 Foreign language	60		60					30				2		30				2							
2 HES 1	30	15			15		15			15		2													
3 HES 2 (Education and science in the economic system)	45	15			30							2	15			30		3							
4 Modeling of biological structures and processes	30	15			15		15			15	E	2													
5 Mathematics in information processing	30	15	15				15	15			E	2													
6 Certification of medical devices	45	15			30		15			30		3													
7 Current methods and devices supporting the diagnosis of musculoskeletal system	45	15		30			15		30			3													
8 UBZO	30	30																	30						2
Specialty: INFORMATICS IN MEDICINE	315	120	75	30	90		75	45	30	60		14	15	30		30		5	30						2
1 Design and maintenance of biomedical information systems	60	30		30			30		30			4													
2 Speech Analysis and Synthesis	60	30		30			30		30			3													
3 Advanced embedded systems	60	30		15	15		30		15	15		3													
4 Computer-Aided Medical Diagnostics and Therapy	105	30		45	15	15							30		45	15		6				15			1
5 Artificial Intelligence Methods and Soft Computing	90	30		30	30								30		30	15		5							
6 Bioinformatics	60	30		30									30		30		E	4				15			1
7 Computational pathology	60	30		30									30		30			4							
8 Biometria	90	30		30	30										30			4		30		30		E	4
9 Edge Computing	45	15		15	15														15		15	15		E	3
10 Medical Information Systems	60	30		30									30		30		E	4							
11 Practical applications of artificial intelligence	15			15																	15				1
12 PBL	75				75					75		6													20
13 Master diploma seminar	30				30																30				
	810	285		300	180	15	90		75	90		16	150		165	30		23	45		60	60	15		30
Total	1125	405	75	330	270	15	165	45	105	150		30	165	30	165	60		28	75		60	60	15		32
Total/Hours per week							465					31	420					28	210						13

Programme valid from the academic year: 2024/2025