

BIOMEDICAL ENGINEERING, 2nd CYCLE (MASTER)
Specialty: MEDICAL ENGINEERING

		Hours					I						II						III					
	Common courses	Suma	W	C	L	P	W	C	L	P	E	ECTS	W	C	L	P	E	ECTS	W	C	L	P	E	ECTS
1	Foreign language	60		60								2						2						
2	HES 1	30	15			15	15	30		15		2		30				2						
3	HES 2 (Education and science in the economic system)	45	15			30							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: MEDICAL ENGINEERING	315	120	75	30	90	75	45	30	60		14	15	30		30		5	30					2
1	Design of medical devices	60	30			30	30			30		4												
2	Safety in hospital settings	60	30			30	30			30		3												
3	Fast prototyping	60	15		30	15	15		30	15		3												
4	Medical IT management	45	15		30								15		30			2						
5	Medical Information Systems	60	30		30								30		30			4						
6	Electromedical devices	60	30		30								30			30	E	4						
7	Minimally invasive interventions and devices	60	30		30								30		30	30	E	4						
8	Laboratory devices	30	15			15													15			15		2
9	Normative requirements in medical engineering	45	30			15													30			15	E	2
10	Telemedicine	60	30		30														30		30		E	4
11	Medical Imaging	45	30		15								30		15			3						
12	Artificial Intelligence	75	15		30	30							15		30	30		5						
13	Mechanical and biological methods in biomaterial and tissue testing	45	15		15	15							15		15	15		3						
14	PBL	75				75				75		6												
15	Master diploma seminar	30				30																30		20
	Total	810	315		210	285	75		30	150		16	165		150	75		25	75		30	60		28
		1125	435	75	240	375	150	45	60	210		30	180	30	150	105		30	105		30	60		30
	Total/Hours per week						465					31	465					31	195					13

Programme valid from the academic year: 2024/2025