

Biomedical Engineering Direction, Full time studies, Master level, Specialization: Information Systems in Medicine

	Basic Courses	Course Code	Type	Hours						I							II						III							
				Suma	Lec	C	Lab	P	S	Lec	C	Lab	P	S	E	EC	Lec	C	Lab	P	S	E	EC	Lec	C	Lab	P	S	E	EC
B1	Programming in Python	IB-S2-PA-1-B1	B	45	15		15	15		15		15	15			3														
B2	Medical Telematics	IB-S2-PA-1-B2	B	30	15		15			15		15				2														
B3	Tissue and Genetic Engineering	IB-S2-PA-3-B3	B	30	15			15															15			15			2	
B4	Modelling of Biomedical Structures and Processes	IB-S2-PA-1-B4	B	30	15			15		15			15			2														
B5	Locomotive Rehabilitation Engineering	IB-S2-PA-1-B5	B	30	15		15			15		15				2														
<b>Specialization Subjects</b>				<b>165</b>	<b>75</b>		<b>45</b>	<b>45</b>		<b>60</b>		<b>45</b>	<b>30</b>			<b>9</b>							<b>15</b>			<b>15</b>			<b>2</b>	
S1	Higher Mathematics in Scientific and Engineering Terms	IB-S2-PA-1-S1-ISM	S	60	30		30			30		30				4														
S2	Biometry	IB-S2-PA-1-S2-ISM	S	90	30		30	30		30		30	30		E	6														
S3	Software Engineering	IB-S2-PA-1-S3-ISM	S	30	15		15			15		15			E	3														
S4	Fuzzy logic	IB-S2-PA-2-S4-ISM	S	45	15		15	15									15		15	15										
S5	Bioinformatics	IB-S2-PA-2-S5-ISM	S	45	30		15										30		15			E								
S6	Computer Aided Minimally Invasive Therapy	IB-S2-PA-3-S6-ISM	S	45	15		30																15		30				3	
S7	Advanced Diagnostic and Therapy Techniques	IB-S2-PA-3-S7-ISM	S	30	15		15																15		15				2	
S8	Computer Aided Medical Diagnosis	IB-S2-PA-2-S8-ISM	S	30			15		15										15		15	E								
S9	Medical Information Systems	IB-S2-PA-2-S9-ISM	S	45	15		30										15		30			E								
S10	Image Navigation in Medicine	IB-S2-PA-2/3-S10-ISM	S	45	15		15	15									15		15							15			1	
S11	Data Mining	IB-S2-PA-1-S11-ISM	S	30	15		15			15		15				2														
S12	Speech Signal Processing	IB-S2-PA-2-S12-ISM	S	45	15		30										15		30											
S13	Medical Image Processing in Object-Oriented Languages	IB-S2-PA-2-S13-ISM	S	45	15		15	15									15		15	15										
S14	Advanced Signal Processing	IB-S2-PA-2-S14-ISM	S	60	30		30										30		30											
S15	Digital Modelling	IB-S2-PA-1-S15-ISM	S	30	15		15			15		15				2														
S16	Data Warehouse design using open ETL platform	IB-S2-PA-1-S16-ISM	S	30	15		15			15		15				2														
<b>Elective Courses</b>				<b>705</b>	<b>285</b>		<b>330</b>	<b>75</b>	<b>15</b>	<b>120</b>		<b>120</b>	<b>30</b>			<b>19</b>	<b>135</b>	<b>165</b>	<b>30</b>	<b>15</b>		<b>23</b>	<b>30</b>	<b>45</b>	<b>15</b>				<b>6</b>	
1	Foreign Language	IB-S2-PA-1/2-E1	E	60		60					30					2		30				2								
2	Elective Course 1 type HES	IB-S2-PA-3-HES1-ISM	B	30	15			15															15			15			2	
3	Elective Course 2 type HES	IB-S2-PA-3-HES2-ISM	B	30	15		15																15		15				2	
4	Elective Course 3 type HES	IB-S2-PA-3-HES3-ISM	B	15	15																		15						1	
5	Elective Courses	IB-S2-PA-2/3-Ex-IM	E	75	45			30									15			15		2	30			15			3	
6	Intermediate Project	IB-S2-PA-2-IP-ISM	E	45				45											45			3								
7	Diploma Thesis Seminar	IB-S2-PA-3-DTS-ISM	E	30					30																		30		2	
8	Master's Thesis	IB-S2-PA-3-MT-ISM	E																										12	
				<b>285</b>	<b>90</b>	<b>60</b>	<b>15</b>	<b>90</b>	<b>30</b>		<b>30</b>					<b>2</b>	<b>15</b>	<b>30</b>		<b>60</b>		<b>7</b>	<b>75</b>	<b>15</b>	<b>30</b>	<b>30</b>		<b>22</b>		
<b>Totals</b>				<b>1155</b>	<b>450</b>	<b>60</b>	<b>390</b>	<b>210</b>	<b>45</b>	<b>180</b>	<b>30</b>	<b>165</b>	<b>60</b>			<b>30</b>	<b>150</b>	<b>30</b>	<b>165</b>	<b>90</b>	<b>15</b>		<b>30</b>	<b>120</b>	<b>60</b>	<b>60</b>	<b>30</b>		<b>30</b>	
				<b>Hours per week</b>												<b>29</b>							<b>30</b>							<b>18</b>