STUDY MANIFESTO C.Y. 2023-2024 - CURRICULUM

Bachelor's Degree Programme in Biomedical Engineering – 1° year						
Subject	ECTS	SSD	Term	Propaedeutics		
Fundamentals of Computer Science	10	ING-INF/05	II	none		
Mathematics	10	MAT/08	I	none		
Chemistry	7	CHIM/07	I	none		
General Physics - Physics Part 1	7	FIS/07	I	none		
General Physics - Physics Part 2	5	FIS/03	Ш	none		
Economics and Management	6	ING-IND/35	II	none		
General English/Italian	1	L-LIN/12	I	none		
Humanities for Bioengineering - The History of Biomedical Engineering in Twelve Machines	1	MED/02	ı	none		
Physiology and Anatomy - Physiology	6	BIO/09	I	none		
Physiology and Anatomy - Anatomy	4	BIO/16	1-11	none		

Bachelor's Degree Programme in Biomedical Engineering – 2° year					
Subject	ECTS	SSD	Term	Propaedeutics	
Advanced Physics	6	FIS/03	I	Physics	
Mathematics II	13	MAT/05	I-II	Mathematics	
Probability and Statistics	6	SECS-S/02	I	none	
Healthcare Information Systems and Telemedicine	6	ING-INF/05	I	none	
Electronics and Electrotechnics - Electrotechnics	5	ING-IND/31	II	none	
Electronics and Electrotechnics - Fundamentals of Electronics	6	ING-INF/01	II	none	
Mechanics of Solids	6	ICAR/08	II	none	
Transport Phenomena and Termodynamics	6	ING-IND/24	II	none	
Technical English/Italian	2	L-LIN/12	I	none	
Humanities for Bioengineering - Fundamentals of Anthropology and Ethics	3	M-FIL/03	I	none	

Bachelor's Degree Programme in Biomedical Engineering – 3° year					
Subject	ECTS	SSD	Term	Propaedeutics	
Biomedical Signal Processing	10	ING-INF/06	I-II	none	
Foundamental of Automatic Control	9	ING-INF/04	1	none	
Biomechanics - Modeling and Technologies	6	ING-IND/34	I	none	
Biomechanics - Physiology and Anatomy - Musculoskeletal System	3	MED/34	1	none	
Fundamentals of Bioengineering	12	ING-IND/34	II	none	
Measurements and Instrumentation in Biomedical Engineering and Standards for Medical Devices	7	ING-IND/12	I	none	
Humanities for Bioengineering - Philosophy of Science, Human Development, and Technology	2	M-FIL/02	1-11	none	
To be chosen by the student ***	Total ECTS: 12			none	
Thesis	3			none	

*** EXAMS TO BE CHOSEN BY THE STUDENT FOR A TOTAL OF 12 ECTS						
YEAR	Subject	ECTS	SSD	Term	Propaedeutics	
3rd	Biomechatronics and Biomaterials	6	ING-IND/34	II	none	
3rd	Healthcare Robotics	6	ING-IND/34	II	none	
3rd	Al and Data Mining	6	ING-INF/05	II	none	
3rd	Biomedical Research and Innovation Management and Assessment	6	ING-IND/34	II	none	
3rd	Laboratory of Measurements	6	ING-IND/12	II	none	