

Curriculum

	Semester Credit Units ECTS-Credits					
	1	2	3	4	5	6
MATHEMATICS & SCIENTIFIC BASICS						
Mathematics	4 5	4 5				
Fundamentals of Physics and Chemistry	3 5	3 5				
ENGINEERING SCIENCE						
Technical Basics	4 5	4 5				
Electrical Engineering & Construction	5 6					
Measurement & Control Engineering		4 5				
Electronics		4 5				
Fluid Dynamics			4 5			
Production Engineering & Additives Manufacturing			4 5			
BASICS OF MEDICINE & (MEDICAL) INFORMATICS						
Algorithms & Data Structures	3 4					
Software Engineering		4 5				
Hardware-related Software Development			4 5			
Anatomy & Biology			4 5			
Physiology & Pathology				4 5		
Applied Modeling and AI					4 5	
BASICS OF MEDICAL & SPORTS EQUIPMENT TECHNOLOGY						
Biosignal & Image Processing			5 5			
Biomedical Sensor Technology				4 5		
Device Design, UI & UX				4 5		
Robotic Systems in Sports and Medical Technology					3 5	
Regulatory					3 5	
BRANCHES OF STUDIES						
A. Medical Engineering						
eHealth & Telemedicine				4 5		
Medical Device Analysis & Development				5 5		
Medical Technologies in Diagnosis & Therapy					4 5	
Prosthetics and Rehabilitation					4 5	
B. Health & Sports Engineering						
Sports Equipment Analysis & Development				3 5		
Measurement & Analysis Methods in Sports				4 5		
Training Support					4 5	
Sports Medicine and Rehabilitation					4 5	
BUSINESS, MANAGEMENT & KEY COMPETENCIES						
Economics, Management & Key Competencies	4 5		4 5	4 5		
PRACTISE & BACHELOR THESIS						
Project					3 5	
Internship						15
Bachelor thesis						15
SEMESTER CREDIT UNITS ECTS-CREDITS	23 30	23 30	25 30	24 30	21 30	 30