MSc Biomedical Engineering **Track Bioelectronics** **Autumn Semester 2023 (HS23)** last update: June 26, 2023

Core Course | Recommended Elective Course | Biology Course

Time	Monday					
08:00						
09:00						
10:00	Frontiers in Nanotechnology					
11:00						
12:00						
13:00						
14:00		Neuromorphic Engineering I	Biomedical Imaging			
15:00						Ultrasound Fundamentals and Applications in Biology and Medicine
16:00	Microrobotics	Deep Learning		Emerging Memory Technologies	Biomicrofluidic Engineering	
17:00						
18:00						

Time	Tuesday					
08:00		Rehabilitation Engineering II: Rehabilitation of Sensory and Vegetative Functions	Physiology and Anatomy for Biomedical Engineers I	Medical Technology Innovation - From Concept to Clinics		
09:00						
10:00					Cross-Disciplinary Research and Development in Medicine and Engineering	
11:00						
12:00		Biomicrofluidic Engineering				
13:00			Biomedical Imaging			
14:00						
15:00						
16:00		Microsystems I: Process Technology and Integration	Cell Biophysics			
17:00						
18:00						

Time	Wednesday					
08:00		Analog Signal Processing and Filtering	Biomedical Engineering			
09:00				Deep Learning in Artificial and Biological Neuronal Networks		
10:00	Qubits, Electrons, Photons				Wearable and Mobile Technologies of the Future - Focus on Sports and Health	
11:00						
12:00						
13:00	Deep Learning			Biological Engineering and Biotechnology		Biocompatible Materials
14:00		Molecular Health Sensors and Devices	Introduction to Photonics		Computer Vision	
15:00						
16:00	Deep Learning	Acoustics in Fluid Media: From Robotics to Additive Manufacturing	Micro/Nanotechnology and Microfluidics for Biomedical Applications			
17:00						
18:00						

Time	Thursday					
08:00		Molecular Health Sensors and Devices			Introduction to Neuroinformatics	Physical Modelling and Simulation
09:00						
10:00	Nanosystems			Qubits, Electrons, Photons		
11:00						
12:00		Computer Vision			Microrobotics	
13:00	Computer Vision	Microsystems I: Process Technology and Integration		Biological Methods for Engineers (Basic Lab)		
14:00			Image Analysis and Computer Vision		Introduction to Photonics	Deep Learning
15:00						
16:00	Seminar on Digital Humans	Cell Biophysics				
17:00						
18:00						

Time	Friday					
08:00				Bioelectronics and Biosensors		
09:00						
10:00					Analog Integrated Circuits	
11:00						
12:00						
13:00	Computer Vision	Qubits, Electrons, Photons				
14:00	Introduction to Estimation and Machine Learning	Physics in Medical Research: From Atoms to Cells		Frontiers in Nanotechnology	Analog Integrated Circuits	
15:00						
16:00						
17:00						
18:00						

UZH: Systems Neuroscience
Not offered in HS23: Computational Psychiatry & Computational Psychosomatics

Note: This is an informal help for students. The official courses can be seen on the Course Catalogue of ETH (www.vvz.ethz.ch)