MSc Biomedical Engineering   Track Bioimaging   Spring Semester 2024 (FS24)

- 🟨 Core Course
- 🟦 Recommended Elective Course
- 🟩 Biology Course

Time	Monday					
08:00				Physiology and Anatomy for Biomedical Engineers II		
09:00						
10:00	Elements of Microscopy		Theoretical Foundations of Magnetic Resonance Imaging Sequences *			
11:00						
12:00						
13:00						
14:00	Biological Methods for Engineers	Model- and Learning-Based Inverse Problems in Imaging				
15:00						
16:00					Nanoscale Molecular Imaging	
17:00						
18:00						

Time	Tuesday					
08:00						
09:00		Optics and Photonics		Translational Neuromodeling	Biomedical Photonics *	
10:00						
11:00						
12:00						
13:00						
14:00	Medical Image Analysis		Model- and Learning-Based Inverse Problems in Imaging			
15:00						
16:00						
17:00						
18:00						

Time	Wednesday					
08:00				Cell and Molecular Biology for Engineers		
09:00						
10:00	Molecular Imaging - Basic Principles and Biomedical Applications		Computational Neuroimaging Clinic			
11:00						
12:00						
13:00		Magnetic Resonance Imaging in Medicine				
14:00						
15:00						
16:00				Orthopaedic Biomechanics		
17:00						
18:00						

Time	Thursday					
08:00						
09:00			Quantitative Big Imaging: From Images to Statistics			
10:00	Measuring on the Nanometer Scale					
11:00						
12:00						
13:00						
14:00			Cell and Molecular Biology for Engineers			
15:00						
16:00						
17:00		Computational Vision				
18:00						

Time	Friday					
08:00						
09:00						
10:00						
11:00						
12:00						
13:00						
14:00	Translational Neuromodeling	Physics in Medical Research: From Humans to Cells				
15:00						
16:00						
17:00						
18:00						

EXCITE Interdisciplinary Summer School on Bio-Medical Imaging *
Terahertz: Technology and Applications *
Computational Psychiatry & Computational Psychosomatics *
June 2024: Microscopy Training Cryogenic Electron Microscopy

*: not offered in FS24

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