

Department of Biomedical Engineering

List of elective courses

Spring Semester

Due to timetable constraints, students can only choose courses within the same track

COURSE	HOURS	ECTS
TRACK 1: ENGINEERING WITH LIFE AND PHYSICAL SCIENCES		
Clinical Translation	10	1
Medical Imaging and Processing	36	3
Biomechanics and Health	50	5
Health Sciences	50	5
Intro. To Medical Image Processing	12	1
Computer Vision	16	2
TRACK 2: DIAGNOSIS AND INNOVATIVE MEDICAL TREATMENT		
Clinical Translation	10	1
Medical Imaging and Processing	36	3
Electronics and Embedded Systems	50	5
Intro. To Medical Image Processing	12	1
Biology and Biological Imaging	20	2
Machine Learning	21	2
Computer Vision	16	2
Mechatronics and haptics	41	4
Optimization	24	2
TRACK 3: INNOVATIVE THERAPIES		
Clinical Translation	10	1
Medical Imaging and Processing	36	3
Electronics and Embedded Systems	50	5
Biology and Biological Imaging	20	2
Optimization	24	2
Physics of lasers and optical fibers	13	1
Introduction to Nanoscience	7	1
Physics of sensors	13	1
Biology and Biological Imaging	20	2