

## 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
<b>TRACK 1: ENGINEERING WITH LIFE AND PHYSICAL SCIENCES</b>		
<a href="#">Clinical Translation</a>	10	1
<a href="#">Medical and surgical procedures</a>	18	2
<a href="#">Biomechanics and Health</a>	60	6
<a href="#">Image Processing</a>	26	3
<a href="#">Medical Imaging and Processing</a>	12	1
<a href="#">Computer Vision</a>	16	2
<b>TRACK 2: DIAGNOSIS AND INNOVATIVE MEDICAL TREATMENT</b>		
<a href="#">Clinical Translation</a>	10	1
<a href="#">Medical and surgical procedures</a>	18	2
Image Processing	28	3
<a href="#">Analysis of biological images</a>	20	2
<a href="#">Machine Learning</a>	21	2
<a href="#">Medical Imaging and Processing</a>	12	1
<a href="#">Computer Vision</a>	16	2
<a href="#">Software tools for robotics</a>	16	2
<a href="#">Mechatronics and haptics</a>	41	5
<b>TRACK 3: INNOVATIVE THERAPIES</b>		
<a href="#">Clinical Translation</a>	10	1
<a href="#">Medical and surgical procedures</a>	18	2
Image Processing	28	3
<a href="#">Analysis of biological images</a>	20	2
<a href="#">Intro. to Computational Biology</a>	12	1
<a href="#">Communication protocols</a>	12	1
<a href="#">Circuits and systems</a>	18	2
<a href="#">Project of design of an embedded system</a>	20	2
<a href="#">Physics of lasers and optical fibers</a>	13	1
<a href="#">Nanosciences</a>	7	1
<a href="#">Physics of sensors</a>	13	1