Department of Biomedical Engineering

Diagnosis and Innovative Medical Treatment
Spring Semester

COURSE	HOURS	ECTS
COURSE UNIT 1: MEDICAL APPLICATIONS		
Clinical Translation	10	1
Medical and surgical procedures	18	2
COURSE UNIT 2: IMAGE PROCESSING AND VISION		
Image Processing	28	3
Analysis of biological images	20	2
Machine Learning	21	2
Medical Imaging and Processing	12	1
Computer Vision	16	2
COURSE UNIT 3: SYSTEM CONTROL AND ROBOTICS		
Software tools for robotics	16	2
Mechatronics and haptics	41	5
Optimization	24	2
COURSE UNIT 4: R&D PROJECT		
Research and Development Project	50	5
COURSE UNIT 6: FRENCH LANGUAGE AND INTERCULTURALITY		
French Language	25	2
Interculturality	15	1
TOTAL	**296**	**30**