

Department of Biomedical Engineering
Diagnosis and Innovative Medical Treatment
 Spring Semester

COURSE	HOURS	ECTS
COURSE UNIT 1: MEDICAL APPLICATIONS		
Clinical Translation	10	1
Medical Imaging and Processing	36	3
COURSE UNIT 2: ELECTRONICS		
Electronics and Embedded Systems	50	5
COURSE UNIT 3: IMAGE PROCESSING AND VISION		
Intro. To Medical Image Processing	12	1
Biology and Biological Imaging	20	2
Machine Learning	21	2
Computer Vision	16	2
COURSE UNIT 4: SYSTEM CONTROL AND ROBOTICS		
Mechatronics and haptics	41	4
Optimization	24	2
COURSE UNIT 5: R&D PROJECT		
Research and Development Project	50	5
COURSE UNIT 6: FRENCH LANGUAGE AND INTERCULTURALITY		
French Language	25	2
Interculturality	15	1
TOTAL	320	30