

Department of Biomedical Engineering

Innovative Therapies

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 DATA SCIENCES		
Image Processing	28	3
Analysis of biological images	20	2
Intro. to Computational Biology	12	1
Project	50	5
COURSE UNIT 3: ELECTRONICS		
Communication protocols	12	1
Circuits and systems	18	2
Project of design of an embedded system	20	2
COURSE UNIT 4: PHYSICS		
Physics of lasers and optical fibers	13	1
Nanosciences	7	1
Physics of sensors	13	1
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	311	30