

<p>Department of Biomedical Engineering</p> <p>Diagnosis and Innovative Medical Treatment</p> <p>Fall Semester</p>

COURSE	HOURS	ECTS	
COURSE UNIT 1 : IMAGING AND MEDICAL IMAGE PROCESSING			
Advanced Medical Image Processing	21	2	
Technology of Imaging Systems	27	3	
Biomedical Acoustics	19	2	
COURSE UNIT 2: MODELING OF LIVING SYSTEMS AND SIMULATION			
Modeling of Living Systems	20	2	
Biomechanics and Numerical Simulation	16	1	
Real-time Simulation	33	3	
COURSE UNIT 3 : MEDICAL ROBOTICS			
Robotics	26	3	
Pose Estimation	14	1	
3D Medical Registration	23	2	
Computer-Assisted Medical Interventions	28	3	
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		317	30