

BIOMEDICAL ENGINEERING – STUDIES SCHEDULE

3 th year		4 th year		5 th year	
S5	S6	S7	S8	S9	S10
Language (86h, 3 ECTS) -English -Enhanced English or second living foreign language	Language (86h, 3 ECTS) -English -Enhanced English or second living foreign language	Assistant engineer internship 20 weeks 30 ECTS	Language (60h, 3 ECTS) -English -Enhanced English or second living foreign language	Language (60h, 3 ECTS) -English -Enhanced English or second living foreign language	Engineer internship 24 weeks 30 ECTS
Business technics and organization (90h, 5 ECTS) -Management -Companies organization -Law -Project management 1 -Sport	Business technics and organization (72h, 5 ECTS) -Communication -Business creation project -GBM Option -Sport		Business technics and organization (82h, 5 ECTS) -Communication -Marketing -Project management 2 -GBM option -Sport	Business technics and organization (80h, 5 ECTS) -GBM option 1 -GBM option 2 -GBM option 3	
TB1: Biomedical Technic 1 (96h, 6 ECTS) -Statistics and medical applications -Human physiology -Human anatomy	TB2 : Biomedical Technic 2 (72h, 4 ECTS) -Advanced statistics and medical applications -Biomedical engineer profession 1		TB3 : Biomedical Technic 3 (68h, 3 ECTS) -Technic platforms -Health economics	Biomedical Engineer (105h, 7 ECTS) -Biomedical engineer profession -Medical devices -Biology lab -Orthopaedic equipment and system	
PIM1 : Physics and medical imaging 1 (94h, 6 ECTS) -Physical bases for imaging - Ionizing radiation physics 1 -Electromagnetism and electronics 2	PIM2 : Physics and medical imaging 2 (86h, 5 ECTS) -NMR and ultra-sound imaging -X-ray, nuclear medicine and radiation protection		PIM3 : Physics and medical imaging 3 (64h, 4 ECTS) -Ionizing radiation physics 2		
ISI1 : Computer science, signal and image processing (83h, 5 ECTS) -Signal 1 -Object-oriented programming: Linux	ISI2 : Computer science, signal and image processing 2 (64h, 5 ECTS) -Physiological signals processing -Object-oriented programming: Windows		ISI3 : Computer science, signal and image processing 3 (137h, 9 ECTS) -Image processing introduction -Networks on Unix -Software engineering -Acoustics, hearing and voice	Embedded systems option (233h, 15 ECTS) -Quality and management of software projects in health (24h) -Optical biomedical (60h) -Nanotechnology (30h) -Advanced technic platforms (35h) -Embedded systems for autonomy and handicap (54h) -Project S9 (30h)	
ELINT1 : Electronics and instrumentation 1 (91h, 5 ECTS) -Electromagnetism and electronics 1 -Electric measurement -Electronics engineering 1	ELINT2: Electronics and instrumentation 2 (81h, 5 ECTS) -Sensors and instrumentation -Electronics engineering 2		ELINT3: Electronics and instrumentation 3 (90h, 5 ECTS) -Digital electronics and signal acquisition -Radio Frequency electronics		
	Biomedical HSS 1 (60h, 3 ECTS) -Project and engineer profession		Biomedical HSS 2 (16h, 1 ECTS) -GBM project		