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UE	Course	ECTS	Language
JBM5U1	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW I	3	
	English Organization and operation of the companies		
JBM5U2	WAVES / BIOLOGY	9	
	Physiology Anatomy Electromagnetism		
JBM5U3	MATHEMATICS AND COMPUTING	9	
	Mathematics for Engineering Introduction to programming Introduction to Web Development		
JBM5U4A	SIGNALS / INSTRUMENTATION I	9	
	Signals and Systems Biomedical Engineering Project Biomedical Instrumentation I Probability and Statistics		














BACHELOR, 3rd Year - 2nd Semester (S6) [JBM6ST0]

UE	Course	ECTS	Language
JBM6U1	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW II	4	
	English Corporate finances Health and Safety in hospitals Sustainable development		   
JBM6U2C	BIOLOGY / CHEMISTRY	5	
	Spectrophotometry Biology and Sterilization Biochemical Techniques		  
JBM6U4B	PHYSICS	7	
	Atomic and Nuclear physics Laser and biomedical applications Fluid mechanics		  
JBM6U5E	SIGNAL / INSTRUMENTATION II	11	
	Signal processing Signal processing: Practical Electronics Electronics: Practical Computer project Instrumentation and Sensors Sensor project		      
JBM6U6	WORK PLACEMENT I (Internship)	3	 / 


















MASTER, 1st Year - 1st Semester (S7) [JBM7ST0]

UE	Course	ECTS	Language
JBM7U6B	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW III	6	
	English		
	Quality Management		
	Commercial and Marketing		
	Biomedical Device market		
JBM7U2B	IT TOOLS	9	
	Oriented Object programming		
	Labview		
	Labview project		
	Computer network		
JBM7U3	PHYSIOLOGY / BIOMECHANICS	9	
	Neurophysiology		
	Biomaterials		
	Cardiovascular biomechanics		
	Cell biology		
JBM7U4E	INSTRUMENTATION	6	
	Matlab		
	Automation		


MASTER, 1st Year - 2nd Semester (S8) [JBM8ST0]

UE	Course	ECTS	Language
JBM8U5	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW IV	3	
	English		
	English project		
	Human Relation Management		
	Entrepreneurship innovation I		
JBM8U1B	BIOLOGY	3	
	Biomechanics of solid bodies		
	Applied biology		
JBM8U8	IMAGING	7	
	MRI - Spectrometry		
	Tomography		
	Ultrasound imaging		
	Medical radiation physics		
JBM8U7	COMPUTER SCIENCE	5	
	Databases		
	PHP / Web Development		
JBM8U4	WORK PLACEMENT II (Internship)	12	
	Learning techniques for biomedical data		

MASTER, 2nd Year - 1st Semester (S9) [JBM9ST0]

UE	Course	ECTS	Language
JBM9U1D	LANGUAGES AND SOCIAL SCIENCE, HUMANITIES, ECONOMICS, LAW V English Project management Sales technique MS Project Job Seeking Techniques (professional integration) Labour law Biomedical company environment	8	     
JBM9U2B	COMPUTER SCIENCE / IMAGING Medical IT / Hospital Information Systems Hospital networks Image processing and Deep learning for biomedical Biomedical image processing project	7	   
JBM9U3E	MEDICAL DEVICES New Biomedical Technologies Marketing constraints Biomedical Instrumentation II	6	  
JBMU4B	NUMERICAL SIMULATION / MODELLING Computer Aided Design / Software Solidworks Finite Elements / Software Radioss Finite volumes / SoftwareFluent	6	  
JBM9U5	INDUSTRIAL APPLICATION WORK	3	

MASTER, 2nd Year - 2nd Semester (S10) [JBM10ST0]

UE	Main course	ECTS	Language
JBM10U1	WORK PLACEMENT III (Internship)	30	 / 