

1ST YEAR: Fundamentals, Practice based element & French

2nd YEAR

FINAL SPECIALIZATION: choice between 23 possibilities	1 ST Semester				2 nd Semester		3 rd – 4 th
	Core	Required Major (all)	Elective Major (≥4)	Core	Required Major (all)	Specialization	
	Biomedical Engineering	Calculation	Solid Mechanics Intro. to Biomechanics Materials 1 Computing Project	CAD (1) Thermodynamics (1) Thermal Science (2) Fluids Mechanics (3)	Communication & Organisation	Anatomy & Physiology Finite Element Method Vibrations Research Project Practical training	Theoretical courses depending on your specialization MASTER THESIS
Bioimaging ^E Biomaterials ^E Biomechanics ^E Bioengineering in Neurosciences ^E	Data Processing Mathematics Numerical Methods	Solid Mechanics Product Design Meth. CAD Computing Project	Materials 1 (1) Thermodynamics (1) Thermal Science (2) Fluids Mechanics (3)	Manufacturing Eng. Advanced CAD Vibrations Research Project Practical training			
Design, Industrialization, Risk & Decision	Bibliography Technics Career Development Communication in English	Fluid Mechanics Hydraulics Thermodynamics Computing Project	CAD (1) Materials 1 (1) Thermal Science (2) Solid Mechanics (3)	Aerodynamics Exp./Num. Methods Vibrations Research Project Practical training			
Innovation, Design Interaction Design Design, Prod. Eng. & Innovation* Virtual Engineering & Innovation* Digital Mock-up & 3D visualization* Advanced Production Systems* ^E Design & Manufacturing ^E Product & Production Process Design* Decision Science & Risk Management	French Language Project Management	Solid Mechanics Mechanical Sizing Materials 1 Computing Project	CAD (1) Thermodynamics (1) Thermal Science (2) Fluids Mechanics (3)	Advanced Materials Finite Element Method Vibrations Research Project Practical training			
Fluids & Energy Systems				Operation Management			
Energetics & Environment Naval Engineering* ^E Aerodynamics & Aeroacoustics ^(E) Mechanical Science & Engineering* ^(E)							
Mechanics, Materials & Processes							
Mechanics of materials & structures ^E Mechanical & Energy Engineering* Mechanics, Material, Struct. & Proc.*							
Mechatronics							
Advanced Systems & Robotics Electrical Engineering* ^(E)		Solid Mechanics Feedback control CAD Computing Project	Materials 1 (1) Thermodynamics (1) Thermal Science (2) Fluids Mechanics (3)		Digital Control Sensors & Actuators Vibrations Research Project Practical training		

Legend: E : Possibility to only choose lectures in English; (E) : Only some lectures are in English; * : M2 not in Paris