

Join Junia as a visiting professor in



HEALTH AND ENVIRONMENT



SMART SYSTEMS AND ENERGIES

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AGRICULTURE AND LANDSCAPE

ENGINE

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BUILDING **AND URBAN ENVIRONMENT**

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COMPUTER **SCIENCE AND MATHEMATICS**



FOOD **SCIENCES**

2024.2025	
Blended lear and online tea encourage COURTINES BLECTRONICS BHYSICS AND ACOUSTICS	aching



Language of Instruction: English or French



Mobility periods are eligible for ERASMUS+ funding



Meals and lodging provided



Interested people should get in contact with international.cooperation@junia.com

If you have questions concerning a course, the international office can put you in contact with the relevant academic staff.



year 2024.2025

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Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility

Detailed description of the courses (content, objectives...) available upon request

	SMART SYSTEMS AND ENERGIES					
	Power systems analysis using PowerFactory software	12 to 16h	Between Oct - Nov	Master	English	No
	Energy Management System	12 to 15h	Between Sept-Dece	Master	English	Open to discussion
Ϋ́Α΄΄΄	Electric Power Distibution	12h	Between April - May	Master	English	Open to discussion
	Mechanical Design	12 to 15h	Between Feb - March	BSc	English	Open to discussion
	Design and Mechanic	12 to 15h	Between Feb - March	BSc	English	Open to discussion

	HEALTH AND ENVIRONMENT					
	Industrial water management, waste water treatment, water re-use	10 to 30h	Between Feb - May	Master	English	Open to discussion
	Alternative use of polluted sites / sustainable management of polluted areas / lanscape management	20 to 30h	Between Sept-Dec	Master	English	Open to discussion
	Solid waste management and circular economy	20 to 30h	Between Feb - May	Master	English	Open to discussion
	The role of biomass in the bioeconomy: from bioenergy to green chemistry	8 to 12h	Januray	Master	English	Open to discussion
3	Ecological restoration	20 to 30h	Between Sept - Dec	Master	English	Open to discussion
$\langle \rangle$	Applied techniques of pollution remediation	10 to 15h	Between Sept - Dec	Master	English	Open to discussion
	Soil ecology	8 to 10h	Between Feb - Apr	Master	English	Open to discussion
	Polluted sediment and Sludge Management, Treatment and valorization	5 to 8h	Between Mar - Apr	Master	English	Open to discussion
	Pollutants in the environment (soil/water/air) - sources, types, characteristics, fate	6 to 8h	Between Sept - Oct	Master	English	Open to discussion
	Toxicology-Ecotoxicology	16 to 20h	Between Sept - Dec	Master	English	Open to discussion

	BUSINESS AND MANAGEMENT					
	Project Management	32h	Sept - Dec	Master	French/English	Open to discussion
	Communication and crisis management	12 to 16h	Sept - Dec	Master	French/English	Open to discussion
	Digital communication	12 to 16h	Sept - Dec	Master	French/English	Open to discussion
	BtoB marketing	4 to 12h	sept - Dec or Feb - March	Master	French/English	Open to discussion
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୍	Brand strategy	8 to 16h	1 st or 2 nd semester	Master	French/English	Open to discussion
	Communication policy	8 to 16h	1 st or 2 nd semester	Master	French/English	Open to discussion
	Business intelligence	8 to 12h	Sept - Dec	Master	French/English	Open to discussion
	Cross-cultural management	16 to 20h	Sept - Dec	Master	French/English	Open to discussion
	Market Research	4 to 16h	1 st or 2 nd semester	Master	French/English	Open to discussion

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- 4	Number of	Ideal Period	Level	Language	Blended/Virtual mobility
st	teaching hours	Period			mobility

Detailed description of the courses (content, objectives...) available upon request

Nutrition (functional foods, impact of processes on the nutritional quality...)

Industry 4.0 (the digital transformation of the food industry, how are companies

doing?, benefits of Industry 4.0, implementation and technologies)

	BUSINESS AND MANAGEMENT					
	Marketing strategy -Strategic analysis	8 to 12h	Oct - Dec	Master	French/English	Open to discussion
	Business model and value proposition canvas	8 to 12h	1 st or 2 nd semester	Master	French/English	Open to discussion
	Business development	8 to 12h	1 st or 2 nd semester	Master	French/English	Open to discussion
	Purchase	12 to 16h	Jan - Feb	Master	English	Open to discussion
	Sales enablement	8 to 12h	Sept - Dec	Master	French/English	Open to discussion
	Sales negociation	12 to 24h	Sept - Jan	Master	French/English	Open to discussion
	Digital business	8 to 16h	Feb - March	Master	French/English	Open to discussion
	Supply chain management	20h	Sept - Jan	Master	French/English	Open to discussion
	Cost accounting and management control	8 to 16h	1 st or 2 nd semester	Master	English/French	Open to discussion
<u>л</u>	Corporate Governance and event studies	8 to 12h	2 nd semester	Master	French/English	Open to discussion
در	Business Plan	4 to 8h	2 nd semester	Master	English	Open to discussion
	Idea generation (start-up)	4 to 8h	2 nd semester	Master	English	Open to discussion
	Financial Analysis (analysis of consolidated financial statements and IFRS $/$ Cost of capital and Governance)	8 to 12h	Feb - April	Master	French/English	Possible 100%
	Human resources management	8 to 16h	Sept - Jan	Master	English	Open to discussion
	New product development and innovation	8 to 16h	1 st or 2 nd semester	Master	English	Open to discussion
	Entrepreneurship / Social Entrepreneurship	8 to 16h	1 st or 2 nd semester	Master	English	Open to discussion
	Customer relationship management	8 to 16h	1 st or 2 nd semester	Master	English	Open to discussion
	Business analytics / Marketing analytics	8 to 16h	1 st or 2 nd semester	Master	English	Open to discussion
	Agricultural economics	8 to 16h	1 st or 2 nd semester	Master	English	Open to discussion
	FOOD SCIENCES					
	Nutrition (functional foods, impact of processes on the nutritional quality)	4 to 8h	Feb - March	Master	English	No

4 to 8h

8h

8 to 12h

8h

January

Between Nov - May

(to be discussed)

Between Nov - May

(to be discussed)

Between Jan - June

(to be discussed)

Master

Master

Master

Master

French

French/English

French/English

French/English

No

No

No

No

	Six Sigma - Process Capability and Process Performance - Statistical Process Control Packaging (roles, types of packaging materials for food, considerations for
(B)	Packaging (roles, types of packaging materials for food, considerations for use of different packaging materials, environmental issues)

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Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility

Detailed description of the courses (content, objectives...) available upon request

FOOD SCIENCES					
CSR concepts	14 to 18h	Sept - Dec	Master	English	No
FSMS focus on IFS, BRC and/or FSSC22000	6 to 12h	Sept - Dec	Master	English	No
(New) Analytical techniques in food sciences (or food industry)	4 to 8h	March - May	Master	English	No
Nouvelles techniques d'analyses en science des aliments/industrie alimentaire	4 to 8h	Oct - Nov	Master	Français	
Business Intelligence : Introduction and practical cases with Power BI	8 to 12h	Oct - Nov	Master	French/English	No
Business Intelligence : Data Visualization	4 to 8h	Oct - Nov	Master	French/English	No
Supply Chain : Introduction of supply chain in food industry	4 to 8h	January	Master	French/English	No
Supply Chain and Innovation	4 to 8h	January	Master	French/English	No
Lean Management and tools : introduction and practical cases	4 to 12h	January	Master	French/English	No
Cleaning and disinfection: applications in food processing	8 to 12h	Oct - Nov	Master	French/English	No

	AGRICULTURE AND LANDSCAPE					
	Agriculture and Climate Change : adaptation and/or mitigation strategies	4 to 8h	Jan - Feb	Master	English	Open to discussion
	Biocontrol for Sustainable Crop Protection (Beneficial microorganims used in plant protection ; Plant protection using resistance inducers activating plant immunity against pathogens)	8h	January	Master	English	Open to discussion
	Animal production systems: ovine (sheep) and goat production systems	8h	March - May	Master	English	Open to discussion
	Animal production systems: bovine (meat) production systems	8h	March - May	Master	English	Open to discussion
	Feed evaluation systems, roughage production (systems)	8h	March - May	Master	English	Open to discussion
	Quality Labels and agricultural production	8h	Oct - Nov	Master	English	Open to discussion
QQ	Robotics and artificial intelligence in agriculture (crops and livestock): introduction, roles, pros and cons, concrete examples	8 to 12h	Oct - Nov	Master	English	Ideally in face-to-face
	Livestock systems in your country	4 to 8h	March - May	master	english	Open to discussion
	Urban farming	8h	Oct - Nov	Master	French/English	Open to discussion
	Animal health (infectious diseases, locomotor disorders, parasitism, mastitis management)	4 to 12h	Oct - Nov	Master	French/English	Open to discussion
	Agroecology (history, fundamentals, scientific approach and practices)	8 or more	September	Master	English	Ideally in face-to-face
	Water and irrigation management for agricultural purposes in the context of climate change, conflicts of use	8 or more	Oct - Nov	Master	English	Ideally in face-to-face
	Farm sustainability assessment (methodology/tool and case studies)	8 or more	Dec - Jan	Master	English	Ideally in face-to-face
	Marketing in agriculture	8h	Sept - Oct	Master	French/English	Open to discussion
	Introduction for urban agriculture and its application in the North of France	6h	Sept - Dec	Master	English	Open to discussion

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s) available upon request	Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility
anagement	20h	Jan - April	Master	English	Open to discussion
	8 to 15h	Jan - April	Master	English	Open to discussion
	8 to 15h	Jan - April	Master	English	Open to discussion
	3 to 4h	Sept - Nov	Master	English	No
	6h	Sept - Oct	Master	English	No

Detailed description of the courses (content, objectives.

	BUILDING AND URBAN ENVIRONMENT					
	Intelligent Transportation System and Traffic Management	20h	Jan - April	Master	English	Open to discussion
	Road Safety	8 to 15h	Jan - April	Master	English	Open to discussion
	Smart Water	8 to 15h	Jan - April	Master	English	Open to discussion
_	Planning and Desigh of Urban Space	3 to 4h	Sept - Nov	Master	English	No
चिंत	GIS and Urban Planning	6h	Sept - Oct	Master	English	No
	Sustainable architecture / construction	8h	Jan - April	Master	French/English	Open to discussion
	Architecture History Culture	4 to 8h	Sept - Nov	Master	French/English	Open to discussion
	Functional textiles	8h	Sept - Nov	Master	French/English	Open to discussion
	Surface treatments (textile finishing) and coating	8h	Jan - April	Master	French/English	Open to discussion
	Technical textiles & Nonwovens	8h	Sept - Jan	Master	French/English	Open to discussion
	COMPLITED COLENCE AND MATHEMATICS					
	COMPUTER SCIENCE AND MATHEMATICS					
	Functions of Several Variables (Introduction, graphical representation, limits and continuity)	8h	September	BSc2	English	No
	Partial Derivatives	8h	October	BSc2	English	No
	Directional Derivatives, Gradient Vectors, Differential Operators	8h	November	BSc2	English	No
	Multiples Integrals	10h	December	BSc2	English	No
	Univariate and Bivariate Descriptive Statistics	8h	Sept - Dec	BSc2	English	No
	Foundation of Probability & Discrete Probability	10h	Sept - Oct	BSc2	English	No
	Continuous Probability Distributions	8h	Nov - Dec	BSc2	English	No
	Modelling with PDEs	8h	Jan - April	BSc2	English	No
Ę	Laplace Transforms and Transfer Functions	8h	Jan - April	BSc2	English	No
	Markov Chains and Modelling	8h	Jan - April	BSc2	English	No
	Optimization for Engineering (Linear Programming and Lagrange Multipliers)	8h	Jan - April	BSc2	English	No
	Least Squares Methods (calculus point of view)	8h	Jan - April	BSc2	English	No
	Discrete Optimization for Engineering	8h	Jan - April	BSc2	English	No
	Fourier Series	8h	Jan - April	BSc2	English	No
	Parametric Estimation	9h	Jan - Feb	BSc2	English	No
	Statistical Hypotheses Test	9h	March - April	BSc2	English	No
	Linear Regression (simple, multiple and its diagnostic)	9h	Feb - April	BSc2	English	No

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	COMPUTER SCIENCE AND MATHEMATICS					
	Principal Components Analysis	9h	Feb - April	BSc2	English	No
	Introduction to machine learning	9h	March- April	BSc2	English	No
	Advanced Programming (C language)	8h	Spring	BSc2	English	Open to discussion
<u>A</u>	Information Systems	8h	Spring	BSc2	English	Open to discussion
25	Databases (SQL)	8h	Spring	BSc1	English	Open to discussion
	Artificial intelligence : Machine Learning and Deep Learning	8h	Jan - Feb	Master	English	No
	Splines: Interpolation, Bézier Curves, B-Curves	8h	Fall	BSc3	English	No

	ENGINEERING					
E L L	Automation	8 à 10h	Feb - March	Master 1	French/English	Open to discussion
	Project management	2*8h	October	Master 1	English	Open to discussion

	ELECTRONICS, PHYSICS AND ACOUSTICS					
	Hardware for Artificial Intelligence	8h	Sept - March	Master	English	Open to discussion
	Workshop on Auditory display of Natural Data : data conditioning, state-of-the-art methods, development of new methods	10 to 20h	Sept - March	BSc3/MSc 1	English (French possible)	Partly possible
	Workshop on Bio-inspired materials in connection to the module M2 "Bio-Nano-Tech"	10 to 20 h	May - Dec (other dates are also possible depending on the Junia didactic needs)	BSc3/MSc 1	English (French possible)	Open to discussion
	Microcontrolers architecture (internal structure, ALU, adressing modes, peripherals): class + practical labs	10 to 30 h	Jan and May	Bsc 2	English	No
	Microelectronics : Analog, mixed-signal or digital Integrated Circuit Design	4 to 8h	Sept - Oct or Jan - March	Master	French/English	Open to discussion

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Blockchain and energy

	Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility
SMART SYSTEMS AND ENERGIES					
Photovoltaic system sizing, implementation, control and production forecast	8 to 12h	To be discussed	BSc3, Master	French/English	Open to discussion
Advanced Fluid Dynamics	15 to 20h	To be discussed	Master	English	Open to discussion
Advanced Heat Transfer	15 to 20h	To be discussed	Master	English	Open to discussion
Renewable Energy Systems	8 to 12h	To be discussed	Master	French/English	Open to discussion
Smart grids, Energy management, P2P energy exchange	8 to 12h	To be discussed	Bsc3, Master	French/English	Open to discussion
Thermodynamic 1	8 to 12h	To be discussed	BSc3	English	Open to discussion
Thermodynamic 2	8 to 12h	To be discussed	BSc3	English	Open to discussion
Structural mechanics (Strength of Material)	8 to 12h	To be discussed	BSc3	English	Open to discussion
Dynamics	8 to 12h	To be discussed	BSc3	English	Open to discussion
Internal combustion Engine (ICEs)	8 to 12h	To be discussed	BSc3, MSc	English	Open to discussion
Mechanical Design	8 to 12h	To be discussed	BSc3	English	Open to discussion

To be discussed

French/English

Master

Open to discussion

	HEALTH AND ENVIRONMENT					
	Monitoring of environmental pollutants / soil & GW quality investigation	8 to 12h	To be discussed	Master	French/English	Open to discussion
	Contaminated land issues / polluted sites management / remediation techniques	8 to 12h	To be discussed	Master	French/English	Open to discussion
	Soil ecology and ecosystem services	8 to 12h	To be discussed	Master	French/English/ Spanish	Open to discussion
あ	Phytoremediation/ Phytomanagement	8 to 12h	To be discussed	Master	French/English/ Spanish	Open to discussion
	Pollutants: origins, behaviour, pollutants chemistry	8 to 12h	To be discussed	Master	French/English/ Spanish	Open to discussion
	Integrated Water Resource Management	8 to 12h	To be discussed	Master	French/English	Open to discussion
	Drinking and Wastewater treatment techniques	8 to 12h	To be discussed	Master	French/English	Open to discussion
	Water quality and Chemistry	8 to 12h	To be discussed	Master	French/English	Open to discussion
	CSR - EMAS	4 to 8h	Second semester	Master	French/English	Open to discussion

8 to 12h

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	Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility
BUSINESS AND MANAGEMENT					,
BtoB marketing	8 to 20h	To be discussed	BSc3, Master	French/English/ Spanish	Open to discussion
Supply Chain Management	10 to 12h	From March to April	Master	French/English/ Spanish	Open to discussion
Enterprise systems (introduction to ERP, criteria for ERP selection) - blended learning (with hands-on learning)	8 to 16h	To be discussed	BSc3, Msc	French/English	No
Marketing applied to food product development : a French case study	8 to 20h	To be discussed	BSc3, Master	French/English	Open to discussion
Market data analysis through consumer panel and retail scanner panel : a French case study	4 to 8h	To be discussed	Master	French/English	Open to discussion
Market research : surveys	4 to 8h	To be discussed	BSc 3, Master	French/English	Open to discussion
Introduction to marketing (extracts)	4 to 12h	To be discussed	BSc 3, Master	French/English	Open to discussion
Event studes / études d'événements (finance) French or US case study	4 to 8h	To be discussed	BSc 3, Master	French/English	Open to discussion
Business start-ups and financing /La création d'entreprise et le financement des start-up	4 to 8h	To be discussed	BSc 3, Master	French/English	Open to discussion
Budget Management / La gestion budgétaire	4 to 8h	To be discussed	BSc 3, Master	French/English	Open to discussion
Investment choice / Le choix d'investissement	4 to 8h	To be discussed	BSc 3, Master	French/English	Open to discussion
Full cost method / La méthode des coûts complets	4 to 8h	To be discussed	BSc 3, Master	French/English	Open to discussion
Corporate Governance / La gouvernance d'entreprise	4 to 8h	To be discussed	BSc 3, Master	French/English	Open to discussion
Idea generation (new enterprises)	4 to 8h	To be discussed	BSc 3, Master	English	Open to discussion
Fintech (financial technology) introduction	4 to 8h	To be discussed	BSc 3, Master	English	Open to discussion
Financial management (entreprises and start-ups)	4 to 8h	To be discussed	BSc 3, Master	English	Open to discussion
Foreign Direct Investment	4 to 8h	To be discussed	BSc 3, Master	English	Open to discussion
The foreign exchange market	4 to 8h	To be discussed	BSc 3, Master	English	Open to discussion
The international monetary system	4 to 8h	To be discussed	BSc 3, Master	English	Open to discussion
The global capital market	4 to 8h	To be discussed	BSc 3, Master	English	Open to discussion
Introduction to Entreprise Risk Management	4 to 8h	To be discussed	BSc 3, Master	English	Open to discussion
Introduction to the agri-food sector in Europe	4 to 8h	To be discussed	BSc3, MSc	French/English	No

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		Number of teaching hours	Ideal Period		Language	Blended/Virtual mobility
	FOOD SCIENCES					
	Food Safety Management Systems	8 to 16h	To be discussed	MSc	French/English	No
	HACCP and Prerequisite programs	8 to 16h	To be discussed	BSc3 or MSc	French/English	No
	Sensory Evaluation	8 to 24h	To be discussed	MSc	French/English	No
	Nutrition applied to food companies, French gastronomy	8 to 16h	To be discussed	MSc	French/English	No
	Sensory Evaluation	8 to 24h	To be discussed	MSc	French/English	No
J)	Design of experiments	12 to 24h	To be discussed	MSc	French/English	No
P	Dairy processings	4 to 8h	To be discussed	BSc3, Msc	French/English	No
	Food and industrial fermentation	4 to 12h	To be discussed	MSc	French/English	No
	Unit Operations	8 to 16h	To be discussed	BSc3 or MSc	French/English	No
	Introduction to ERP (using a SAP simulation game)	8 to 16h	To be discussed	BSc3 or MSc	French/English	No
	Introduction to the agri-food sector in Europe	4 to 8h	To be discussed	BSc3 or MSc	French/English	No
	AGRICULTURE AND LANDSCAPE					
	Plant Breeding and Genetics (Breeding methods and Biotechnologies used in Plant Beeding)	8h	To be discussed	Master	French/English	Open to discussion
	Biocontrol for Sustainable Crop Protection (Biocontrol of plant pathogens using microorganims and natural substances; Plant immunity and induced resistance in plants against plant pathogens)	8h	To be discussed	Master	French/English	Open to discussion
Ø	French livestock systems	2 to 8h	To be discussed	Master	French/English	Open to discussion
	Milk production and dairy chain	4 to 12h	To be discussed	Master	French/English	Open to discussion
	Quality signs in agricultural products in France	4 to 8h	To be discussed	Master	French/English	Open to discussion
	Agriculture and climate change (climate collage serious game 4h + impacts of CC on agriculture in France 4h)	8h	To be discussed	BSc 3, Master	French/English	Open to discussion
	veal calves production systems and welfare	3 to 4h	To be discussed	BSc 3, Master	French/English	Open to discussion
	Animal welfare	4 to 12h	To be discussed	BSc 3, Master	French/English	Open to discussion
	Climate fresk	3h	To be discussed	BSc, Master	French/English	No
	BUILDING AND URBAN ENVIRONMENT					
	Sustainable architecture / construction	4 to 8h	To be discussed	BSC3, Master	French/English	Open to discussion
	Architecture History Culture	4 to 8h	To be discussed	BSC3, Master	French/English	Open to discussion
	Functional textiles	8h	To be discussed	Master	French/English	Open to discussion
	Technical textiles	8h	2 nd semester (jan - june)		French/English	Open to discussion
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	BUILDING AND URBAN ENVIRONMENT					
	Smart cities and smart building	10h	To be discussed	Master	French/English	Open to discussion
e	Building Information Modeling (BIM) fundamentals	8 to 15h	To be discussed	BSC3, Master	French/English	Open to discussion
闘	Smart Management System	8 to 15h	To be discussed	BSC3, Master	French/English	Open to discussion
	Revit Software	20 to 25h	To be discussed	BSC3, Master	French/English	Open to discussion
	Digital Twins (DT)	4 to 8h	To be discussed	BSC3, Master	French/English	Open to discussion

	COMPUTER SCIENCE AND MATHEMATICS					
A ZS	Applications of Markov Chains and Random Processes	8 to 12h	To be discussed	BSc2, BSc3, Master	French/English	Open to discussion
	Modern Cryptography (elliptic curves, post-quantum,)	8 to 12h	To be discussed	Master	French/English	Open to discussion
	Pentesting	8 to 20h	To be discussed	Master	French/English	Open to discussion
	Modeling Techniques in Mixed-Integer Linear Programming	8 to 12h	To be discussed	BSC3, Master	French/English	No
	Artificial intelligence : Machine Learning and Deep Learning	8h	Nov/Dec/April/May	Master	English	No
	Artificial intelligence : Reinforcement Learning	8h	Nov/Dec/April/May	Master	English	No
	Computer Vision	8h	Nov/Dec/April/May	Master	English	No
	Hardware Artificial intelligence : Cuda programming	8h	Nov/Dec/April/May	Master	English	No
	Natural Language Processing, Generative AI and LLM	8h	Nov/Dec/April/May	Master	English	No

 ENGINEERING					
Supply Chain Management	10 to 12h	March - April	Master	French/English	Open to discussion

	ELECTRONICS, PHYSICS AND ACOUSTICS					
l l l l l l l	Geometric optics, mechanics, thermodynamics, electromagnetism, wave physics, quantum mechanics	8 to 30h	April/May/June 2023	BSc1,2,3	French/English	No
	Special relativity, general relativity, astronomy, cosmology	8 to 30h	April/May/June 2023	Master	French/English	No
	Integrated Circuit Design using Cadence (labs)	8 to 30h	To be discussed	Master	French/English	No
	Mixed-signal circuits for audio applications (delta-sigma ADC, class-D amplifiers): hands-on course	8 to 30h	To be discussed	Master	French/English	No
	Hardware for Artificial Intelligence	8h	Sept - March	Master	French/English	Open to discussion
	Introduction to PIC Microcontrollers Assembly Language	8 to 12 h	To be discussed	BSc 2, BSc 3	French/English	No



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2 rue Norbert Ségard 59014 Lille cedex FRANCE

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