

Join Junia as a visiting professor in



HEALTH AND ENVIRONMENT



ELECTRONICS, PHYSICS AND ACOUSTICS



SMART SYSTEMS AND ENERGIES

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BUILDING AND URBAN ENVIRONMENT



BUSINESS AND MANAGEMENT



COMPUTER SCIENCE AND MATHEMATICS

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AGRICULTURE AND LANDSCAPE



FOOD SCIENCES 2022.2023



Blended learning and online teaching encouraged



Language of Instruction: English or French



Mobility periods are eligible for Erasmus Plus funding



Meals and lodging provided



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

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



incoming opportunities

year 2022.2023

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		Number of				Diandad (V/intual
		Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility
		teaching nours	I Chiou			moonity
	HEALTH AND ENVIRONMENT					
	Industrial water management, waste water treatment, water re-use	15 to 20h	Between April - May	Master	English	Open to discussion
	Alternative use of polluted sites / sustainable management of polluted	20 to 30h	Between Sept - Dec	Master	English	Open to discussion
d'h	areas / lanscape management					
(α)	Solid waste management	20 to 30h	February - March	Master	English	Open to discussion
$ \lor \lor $	Polluted sediment management / treatment / valorization	5 to 10h	Between April - May	Master	English	100% possible
	The role of biomass in the bioeconomy: from bioenergy to green chemistry	20 to 30h	Januray	Master	English	Open to discussion
	Ecological restoration	20 to 30h	Between Sept - Dec	Master	English	Open to discussion
	SMART SYSTEMS AND ENERGIES					
		10 to 10b	Detween Oct. New	Maatar	Fragliah	Ne
/	Power systems analysis using PowerFactory software	12 to 16h 15h to 20h	Between Oct - Nov	Master	English	No
(((A)))	Advanced Fluid Dynamics Advanced Heat Transfer		To be discussed	Master	English	Open to discussion
ĽА́	Energy Management System	15h to 20h 12 to 15h	To be discussed Between Sept - Dec	Master Master	English	Open to discussion Open to discussion
	Electric Power Distibution	12 to 15h			English	
		1211	Between April - May	Master	English	Open to discussion
	BUSINESS AND MANAGEMENT					
	Project Management	32h	October	Master	English	Open to discussion
	Export	12 to 16h	October	Master	English	Open to discussion
	Communication and crisis management	12 to 16h	September - December	Master	English	Open to discussion
	Digital communication	12 to 16h	September - December	Master	English	Open to discussion
	BtoB marketing	4 to 12h	Sept - Dec or Feb - March	Master	English	Open to discussion
	Consumer behaviour	12 to 16h	Fall or Spring semester	Master	English	Open to discussion
	Brand strategy	8h to 16h	Fall or Spring semester	Master	English	Open to discussion
	Communication policy	8h to 16h	Fall or Spring semester	Master	English	Open to discussion
	Business intelligence	8 to 12h	September - December	Master	English	Open to discussion
	Cross-cultural management	16 to 20h	September - December	Master	English	Open to discussion
۲Ŀ	Market Research	4 to 16h	Fall or Spring semester	Master	English	Open to discussion
ସ୍ ିତ	Marketing strategy -Strategic analysis	8 to 12h	October - December	Master	English	Open to discussion
L.Q.J	Business model and value proposition canvas	8 to 12h	Fall or Spring semester	Master	English	Open to discussion
	Business development	8 to 12h	Fall or Spring semester	Master	English	Open to discussion
	Purchase	12 to 16h	January - February	Master	English	Open to discussion
	Sales enablement	8 to 12h	September - December	Master	English	Open to discussion
	Sales negociation	12 to 24h	September - January	Master	English	Open to discussion
	Market research	4 to 16h	Fall or Spring semester	Master	English	Open to discussion
	Digital business	8 to 16h	Feb - March	Master	English	Open to discussion
	Digital communication	8 to 20h	Sept - Jan or April - May	Master	English	Open to discussion
	Supply chain management	20h	September - January	Master	English	Open to discussion
	Financial Analysis (analysis of consolidated financial statements and IFRS /	15 to 30h	April - May	Master	English	Possible 100%
	Cost of capital and Governance)					

incoming opportunities

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		Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility
	AGRICULTURE AND LANDSCAPE					
	Agriculture and Climate Change: adaptation and/or mitigation strategies	4 to 8h	February - March	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
00	Animal production systems: ovine (sheep) and goat production systems	8h	April- May	Master	English	Open to discussion
	Animal production systems: bovine (meat) production systems	8h	April - May	Master	English	Open to discussion
	Feed evaluation systems, roughage production (systems)	8h	October - November	Master	English	Open to discussion
	Quality Labels and agricultural production	8h	October - November	Master	English	Open to discussion
	Robotics in agriculture: introduction to robotics, role of robotics in agriculture, pros and cons	8h	October - November	Master	English	Open to discussion
	Livestock systems in your country	4h to 8h	April - May	Master	English	Open to discussion
	ELECTRONICS, PHYSICS AND ACOUSTICS	Oh	Detruces Cost Messel	Maatar	Fractials	On on to discussion
	Hardware for Artificial Intelligence	8h	Between Sept - March	Master	English	Open to discussion
	Linux for Embedded Systems	28h	January - February	Master 2	English	no
ل ل ا	Workshop on Auditory display of Natural Data: data conditioning, state-of-the-art methods, development of new methods	10 to 20h	September - March	Master (+ possibly 3 rd year of bachelor)	English (French possible)	Partly possible
	Workshop on Bio-inspired materials in connection to the M2 module "Bio-Nano-Tech"	10 to 20 h	May - December (other dates are also possible depending on the Junia didactic needs)	Master (+ possibly 3 rd year of bachelor)	English (French possible)	Open to discussion
	COMPUTER SCIENCE AND MATHEMATICS					
	Modelling with PDEs	8-12h	Spring	BSc2, BSc3	English	No
	Quality control and uncertainty in engineering	8-12h	Spring	BSc2, BSc3	English	No
A	Laplace transforms and transfer functions /Z transforms and discrete-time systems	8-12h	Spring	BSc2, BSc3	English	No
Ę	Optimization for engineering (Linear programming and Lagrange multipliers)	8-12h	Spring	BSc2, BSc3	English	No
	Computer Architecture & Networks	20h to 30h	Spring	BSc2	English	Open to discussion
	Advanced Programming (C language)	20h to 30h	Spring	BSc2	English	Open to discussion
	Software Design (Java language)	20h to 30h	Spring	BSc2	English	Open to discussion

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	BUILDING AND URBAN ENVIRONMENT					
	Urban Management Project	8h-15h	Between Jan and March	Master	English	Open to discussion
	Intelligent Transportation System and Traffic Management	20h	January - April	Master	English	Open to discussion
	Road Safety	15h	January - April	Master	English	Open to discussion
	Planning and Desigh of Urban Space	8-12h	September - November	Master	English	No
	GIS and Urban Planning	8-12h	Oct - Nov or Jan - Feb	Master	English	Open to discussion
	Sustainable architecture / construction	8h	January - April	Master	English or French	Open to discussion
	Architecture History Culture	4-8h	September - November	Master	English or French	Open to discussion
一時世	Construction 4.0	4h	December	Master	English or French	Open to discussion
	Technical textiles and nonwovens	8h	September - October	Master	English or French	Open to discussion
	Textile metrology (physical textile testing)	8h	September - November	Master	English or French	Open to discussion
	Fibrous Material	15 h	Between Sept and Nov	Master	English	Possible 100%
	Advanced technical textiles	8 h	Between Sept and Oct	Master	English or French	Open to discussion
	Functional textiles	8h	September - November	Master	English or French	Open to discussion
	Surface treatments (textile finishing) and coating	8h	January - April	Master	English or French	Open to discussion

	FOOD SCIENCES					
	Cleaning and disinfection: applications in food processing	8 to 12h	Sept - January	Master	English	No
	Nutrition (functional foods, impact of processes on the nutritional quality)	4 to 8h	February - March	Master	English	Open to discussion
	Six Sigma - Process Capability and Process Performance - Statistical Process Control	8h	Between Nov - May (To be discussed)	Master	French, English	No
	Biotechnologies	8 to 12h	Between Nov - May (To be discussed)	Master	French, English	No
Ð)	Packaging (roles, types of packaging materials for food, considerations for use of different packaging materials, environmental issues)	8 to 12h	Between Nov - May (To be discussed)	Master	French, English	No
	Industry 4.0 (the digital transformation of the food industry, how are companies doing?, benefits of Industry 4.0, implementation and technologies)	8h	Between Nov - May (To be discussed)	Master	French, English	No
	(New) Analytical techniques in food sciences (or food industry)	4 to 8h	Oct - Nov 2021 or April - May 2022	Master	English	No

outgoing teaching offer

year 2022.2023

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		Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility
	HEALTH AND ENVIRONMENT					
	Monitoring of environmental pollutants / soil & GW quality investigation	8-12h	To be discussed	Master	French, English	Open to discussion
	Contaminated land issues / polluted sites management / remediation techniques	8-12h	To be discussed	Master	French, English	Open to discussion
(n)	Toxicology - Ecotoxicology - environmental risk assessment	8-12h	To be discussed	BSc3, MSc	French, English	Open to discussion
	Phytoremediation/ Phytomanagement	8-12h	To be discussed	Master	French, English	Open to discussion
	Pollutants: origins, behaviour, pollutants chemistry	8-12h	To be discussed	Master	French, English	Open to discussion
	Introduction to biostatistics with the R software	20 to 30h	To be discussed	Master	French, English	Open to discussion
	SMART SYSTEMS AND ENERGIES					
$((c_{\lambda}))$	Photovoltaic system sizing, implementation, control and production forecast	8-12h	To be discussed	BSc3 or Master	French or English	Open to discussion
(((<u>(</u>))))	Advanced Fluid Dynamics	15h to 20h	To be discussed	Master	English	Open to discussion
	Advanced Heat Transfer	15h to 20h	To be discussed	Master	English	Open to discussion
	Renewable Energy Systems	8-12h	To be discussed	Master	French, English	Open to discussion
	BUSINESS AND MANAGEMENT					
	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 or 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
୮୦୦୮ ଜୁତୁୁୁୁ	Market research: surveys	4 to 8h	To be discussed	BSc 3 or Master	French, English	Open to discussion
	Introduction to marketing (extracts)	4 to 12h	To be discussed	BSc 3 or Master	French, English	Open to discussion
	Enterprise Risk Management	8-20h	To be discussed	Master	English	Open to discussion
	Financial Services and Fintech Introduction	8-20h	To be discussed	Master	English	Open to discussion
	International Finance	8-12h	To be discussed	Master	English	Open to discussion
	Enterprise Control Management	8-20h	To be discussed	Master	English	Open to discussion

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outgoing teaching offer

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Networking and IoT

Reinforcement learning

Modern cryptography (elliptic curves, post-quantum, ...)

Ideal **Blended**/Virtual Number of Level Language teaching hours Period mobility AGRICULTURE AND LANDSCAPE Plant Breeding and Genetics (Breeding methods and Biotechnologies used 8h To be discussed French, English Open to discussion Master in Plant Beeding) Biocontrol for Sustainable Crop Protection (Biocontrol of plant pathogens using microorganims and natural substances; Plant immunity and induced 8h To be discussed Master French, English Open to discussion resistance in plants against plant pathogens) French livestock systems 2-8h To be discussed Master French, English Open to discussion Milk production and dairy chain French, English 4 to 12h To be discussed Master Open to discussion QØ Quality signs in agricultural products in France 4 to 8h To be discussed Master French, English Open to discussion Role of iron in plant pathogen interaction (fincluding a focus on ISR) 8h To be discussed BSc3, MSc French, English Open to discussion ununur Precision agriculture / Precision livestock farming English 4 to 8h To be discussed Master Open to discussion Agriculture and climate change (climate collage serious game 4h + impacts BSc 3 or 8h To be discussed English, French Open to discussion of CC on agriculture in France 4h) Master Veal calves production systems and welfare BSc 3 or To be discussed English, French Open to discussion 3-4h Master Animal welfare BSc 3 or 4-12h To be discussed English, French Open to discussion Master **ELECTRONICS, PHYSICS AND ACOUSTICS** Geometric optics, mechanics, thermodynamics, electromagnetism, wave 8 to 30h April - May - June BSc1,2,3 French, English no physics, quantum mechanics Special relativity, general relativity, astronomy, cosmology 8 to 30h April - May - June Master French, English no COMPUTER SCIENCE AND MATHEMATICS Analysis, algebra, differential equation 8 to 30h April - May - June BSc1 French, English no BSc2, Applications of Markov chains and random processes 8-12h To be discussed BSc3, French, English Open to discussion Master А BSc2.

8-12h

8-12h

8-12h

BSc3.

Master

Master

Master

French, English

French, English

French, English

Open to discussion

Open to discussion

Open to discussion

To be discussed

To be discussed

To be discussed

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	Number of teaching hours	Ideal Period	Level	Language	Blended/Virtual mobility
BUILDING AND URBAN ENVIRONMENT					
Reading the city: Space, Self and Other(s)	8-12h	Spring semester (January-June)	BSC3, Master	English	open to discussion
Methods for the investigation of public spaces	8-12h	Spring semester (January-June)	BSC3, Master	English	open to discussion
Futur cities: Smart, Resilient and inclusive	8-12h	Spring semester (January-June)	BSC3, Master	English	open to discussion
Creativity & the city	8-12h	Spring semester (January-June)	BSC3, Master	English	open to discussion
Energy transition - policies for energy transition	8-12h	To be discussed	Master	French, English	Open to discussion
Construction materials	8-12h	To be discussed	BSC3	French, English	open to discussion
Soil mechanics	8-12h	To be discussed	BSC3	French, English	open to discussion
Construction 4.0	8-12h	To be discussed	BSC3, Master	French, English	open to discussion
Strength of Materials	8-12h	To be discussed	BSC3	English	Open to discussion
Continuum mechanics	8-12h	To be discussed	BSC3	English	Open to discussion
Sustainable architecture / construction	4h to 8h	To be discussed	BSC3, Master	French, English	open to discussion
Architecture History Culture	4h to 8h	To be discussed	BSC3, Master	French, English	open to discussion
Fibrous Material	15h	To be discussed	MSc	French, English	Possible 100%
Functional textiles	8h	To be discussed	Master	English or French	open to discussion
FOOD SCIENCES					
Food Safety Management Systems	8 to 16h	To be discussed	MSc	French, English	no
HACCP and Prerequisite programmes	8 to 16h	To be discussed	BSc3 or MSc	French, English	no



	Food Safety Management Systems	8 to 16h	To be discussed	MSc	French, English	no
	HACCP and Prerequisite programmes	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	8 to 16h	To be discussed	MSc	English, French	no
)	Sensory Evaluation	8 to 24h	To be discussed	MSc	French, English	no
ッ	Design of experiments	12 to 24h	To be discussed	MSc	French, English	no
	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
	Introduction to quality strategies	8 to 12h	To be discussed	BSc3, Msc	French, English	no
	Introduction to brewing process and ingredients	2 to 6h	To be discussed	BSc3, Msc	French, English	no



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