

# Join Junia

## as a visiting professor in



**HEALTH AND  
ENVIRONMENT**



**SMART SYSTEMS  
AND ENERGIES**



**BUSINESS AND  
MANAGEMENT**



**AGRICULTURE  
AND LANDSCAPE**



**ELECTRONICS,  
PHYSICS AND  
ACOUSTICS**



**BUILDING  
AND URBAN  
ENVIRONMENT**



**COMPUTER  
SCIENCE AND  
MATHEMATICS**



**FOOD  
SCIENCES**



**ENGINEERING**



**Blended learning  
and online teaching  
encouraged**



Language of Instruction:  
English, French



Mobility periods are eligible  
for ERASMUS+ funding



Meals and lodging  
provided



Interested people should get in contact  
with **[international.cooperation@junia.com](mailto:international.cooperation@junia.com)**

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








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# incoming opportunities

## year 2025.2026

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

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

### 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 / landscape 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	6h to 8h	Jan.	Master	English	Open to discussion
	Ecological restoration	8h to 12h	Between Sept. - Dec.	Master	English	Open to discussion
	Applied techniques of pollution remediation	10 to 15h	Between Sept. - Dec.	Master	English	Open to discussion
	Soil ecology	6h to 8h	Between Feb. - Apr.	Master	English	Open to discussion
	Polluted sediment and Sludge Management, Treatment and valorization	5h to 8h	Between Mar. - Apr.	Master	English	Open to discussion
	Pollutants in the environment (soil/water/air) - sources, types, characteristics, fate...	6h to 8h	Between Sept. - Oct.	Master	English	Open to discussion
	Toxicology-Ecotoxicology	8h to 16h	Between Sept. - Dec.	Master	English	Open to discussion
	Green transition and climate change	6h to 8h	Between Sept. - Dec.	Master	English	Open to discussion
	QHSE	6h to 8h	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
	Consumer behaviour	12 to 16h	1 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	French, English	Open to discussion
	Brand strategy	8h to 16h	1 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	French, English	Open to discussion
	Communication policy	8h to 16h	1 <sup>st</sup> or 2 <sup>nd</sup> 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 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	French, English	Open to discussion
	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 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	French, English	Open to discussion
	Business development	8 to 12h	1 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	French, English	Open to discussion


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### BUSINESS AND MANAGEMENT

	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 negotiation	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 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	English/French	Open to discussion
	Corporate Governance and event studies	8 to 12h	2 <sup>nd</sup> semester	Master	French, English	Open to discussion
	Business Plan	4 to 8 h	2 <sup>nd</sup> semester	Master	English	Open to discussion
	Idea generation (start-up)	4 to 8 h	2 <sup>nd</sup> semester	Master	English	Open to discussion
	Financial Analysis (analysis of consolidated financial statements and IFRS / Cost of capital and Governance)	8-12 h	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 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	English	Open to discussion
	Entrepreneurship / Social Entrepreneurship	8 to 16h	1 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	English	Open to discussion
	Customer relationship management	8 to 16h	1 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	English	Open to discussion
	Business analytics / Marketing analytics	8 to 16h	1 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	English	Open to discussion
	Agricultural economics	8 to 16h	1 <sup>st</sup> or 2 <sup>nd</sup> semester	Master	English	Open to discussion

### 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 microorganisms used in plant protection ; Plant protection using resistance inducers activating plant immunity against pathogens)	8h	Jan.	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
	Robotics and artificial intelligence in agriculture (crops and livestock): introduction, roles, pros and cons, concrete examples	8h - 12h	Oct. - Nov.	Master	English	Ideally in face-to-face

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Ideal  
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### AGRICULTURE AND LANDSCAPE

	Livestock systems in your country	4h to 8h	March-May	master	english	Open to discussion
	Animal health (infectious diseases, locomotor disorders, parasitism, mastitis management)	4 to 12h	Oct. - Nov.	Master	French or English	Open to discussion
	Agroecology (history, fundamentals, scientific approach and practices)	8h or more	Sept.	Master	English	Ideally in face-to-face
	Water and irrigation management for agricultural purposes in the context of climate change, conflicts of use	8h or more	Oct. - Nov.	Master	English	Ideally in face-to-face
	Farm sustainability assessment (methodology/tool and case studies)	8h or more	Dec. - Jan.	Master	English	Ideally in face-to-face
	Marketing in agriculture	8h	Sept. - Oct.	Master	English, French	Open to discussion
	Statistics on R: descriptive statistics, variance analysis, data visualisation	8h-12h	Oct. - Dec. or Mar. - april	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
	Nutrition (functional foods, impact of processes on the nutritional quality...)	4 to 8h	Jan.	Master	French	No
	Six Sigma - Process Capability and Process Performance - Statistical Process Control	8h	Between Nov. - May (To be discussed)	Master	French / English	No
	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)	8	Between Jan. - June (To be discussed)	Master	French / English	No
	CSR concepts	14 to 18 h	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 8	March - May	Master	English	No
	Nouvelles techniques d'analyses en science des aliments/industrie alimentaire	4 to 8	Oct. - Nov.	Master	Français	
	Business Intelligence : Introduction and practical cases with Power BI	8 to 12	Oct. - Nov.	Master	French / English	No
	Business Intelligence : Data Visualization	4 to 8	Oct. - Nov.	Master	French / English	No
	Supply Chain : Introduction of supply chain in food industry	4 to 8	Jan.	Master	French / English	No
	Supply Chain and Innovation	4 to 8	Jan.	Master	French / English	No
	Lean Management and tools : introduction and practical cases	4 to 12	Jan.	Master	French / English	No
	Cleaning and disinfection: applications in food processing	8 to 12	Oct. - Nov.	Master	French / English	No
	Safety in Industry	4 to 8	Jan.	Master	French / English	No

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### BUILDING AND URBAN ENVIRONMENT

	Intelligent Transportation System and Traffic Management	20h	Jan. - April	Master	English	Open to discussion
	BIM Parametric Design	8h-15h	Jan. - April	Master	English	Open to discussion
	Smart Water	8h-15h	Jan. - April	Master	English	Open to discussion
	Planning and Design of Urban Space	3-4h	Sept. - Nov.	Master	English	No
	GIS and Urban Planning	6h	Sept. - Oct.	Master	English	No
	Sustainable architecture / construction	8h	Jan. - April	Master	English, French	Open to discussion
	Architecture History Culture	4 - 8h	Sept. - Nov.	Master	English, French	Open to discussion
	Functional textiles	8h	Sept. - Nov.	Master	English, French	Open to discussion
	Surface treatments (textile finishing) and coating	8h	Jan. - April	Master	English, French	Open to discussion
	Technical textiles & Nonwovens	8h	Sept. - Jan.	Master	English, French	Open to discussion
	Fibrous materials	8h	Sept. - Dec.	Master	English	Open to discussion
	Knitting technologies	8h	Sept. - April	Master	English, French	Open to discussion
	Spinning technologies	8h	Sept. - Jan.	Master	English, French	Open to discussion
	Advanced technical textile	8h	Sept. - Feb.	Master	English	Open to discussion






### COMPUTER SCIENCE AND MATHEMATICS




	Databases (SQL)	8h	Spring	BSc1	English	Open to discussion
	Modelling with PDEs	8h	Jan. - April	BSc2	English	No
	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 Pptimization 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
	Principal Components Analysis	9h	Feb. - April	BSc2	English	No
	Introduction to machine learning	9h	March - April	BSc2	English	No

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COMPUTER SCIENCE AND MATHEMATICS						
	Advanced Programming (C language)	8h	Spring	BSc2	English	Open to discussion
	Splines: Interpolation, Bézier Curves, B-Curves	8h	Fall	BSc3	English	No
	Network Bases	8h - 16h	Fall	Master 1	English	Open to discussion
	Applied optimization with CPLEX and/or Gurobi	8h	Oct.	Master 1	English	No
	Artificial intelligence : Machine Learning and Deep Learning	8h	Jan. - Feb.	Master 2	English	No
	Special or current topics in CS, AI, Data, Cybersecurity, Software development, Information Systems...	8h	International Week (2/2/2026 to 6/2/2026)	Master 2	English, French	No
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. - Dec.	Master	English	Open to discussion
	Electric Power Distribution	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
ENGINEERING						
	Design Thinking (creativity and innovation)	15h	From Feb. to March 2026	Licence 1	English	No
	Business Model Canvas	2*2h	Oct. 2025	Master 1	English	No
	Creativity (course)	3,5h	Oct. 2025	Master 1	English	No
	Creative tools and collective intelligence	2*2h	Oct. 2025	Master 1	English	No
	Innovation competition	6h	14 <sup>th</sup> Nov. 2025	Master 1	English, French	No
	C-K Theory (Concept-Knowledge)	7h	From Jan. to Feb. 2026	Master 1	English, French	Open to discussion
	Creativity workshop (competition, co-hosted)	18h	Feb. or march 2026	Licence 1	English, French	No
	TRIZ method	3,5h or 7h	From Jan. to Feb. 2026	Master 1	English, French	Open to discussion
	Conference - Innovation and creativity in companies : case studies	2h*4	Oct. 2025	Licence 3	English, French	Open to discussion
	Conference - Innovation and creativity in companies : case studies	2h*3	Feb. 2026	Licence 3	English, French	Open to discussion
	Operation Research	10h	From sept. to feb.	Master	English	2h virtual hours + 2x4h in a week



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## HEALTH AND ENVIRONMENT

	Personnalized and predictive medicine for cancer and parasitosis treatments	20-30h	Between Jan. and Sept.	Master	English	Face to face
	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
	Soil ecology and ecosystem services	8-12h	To be discussed	Master	French, English, Spanish	Open to discussion
	Gentle remediation techniques: phytoremediation/ phytomanagement	8-12h	To be discussed	Master	French, English, Spanish	Open to discussion
	Pollutants: origins, behaviour, pollutants chemistry	8-12h	To be discussed	Master	French, English, Spanish	Open to discussion
	Drinking water treatment techniques	8-12h	To be discussed	Master	French, English	Open to discussion
	Water quality and Chemistry	8-12h	To be discussed	Master	French, English	Open to discussion
	CSR - EMAS	4-8h	Second semester	Master	French, English	Open to discussion

## BUSINESS AND MANAGEMENT

	BtoB marketing	8-20h	To be discussed	BSc3, Master	English, French or Spanish	Open to discussion
	Supply Chain Management	10-12h	From March to April	Master	English, French or Spanish	Open to discussion
	Enterprise systems (introduction to ERP, criteria for ERP selection) - blended learning (with hands-on learning)	8-16h	To be discussed	BSc3, Msc	French, English	no
	Marketing applied to food product development : a French case study	8-20h	To be discussed	BSc3, Master	French, English	Open to discussion
	Market data analysis through consumer panel and retail scanner panel : a French case study	4-8h	To be discussed	Master	French, English	Open to discussion
	Market research : surveys	4-8h	To be discussed	BSc3, Master	French, English	Open to discussion
	Introduction to marketing (extracts)	4-12h	To be discussed	BSc3, Master	French, English	Open to discussion
	Event studies / études d'événements (finance) French or US case study	4-8h	To be discussed	BSc3, Master	French, English	Open to discussion
	Business start-ups and financing /La création d'entreprise et le financement des start-up	4-8h	To be discussed	BSc3, Master	French, English	Open to discussion
	Budget Management / La gestion budgétaire	4-8h	To be discussed	BSc3, Master	French, English	Open to discussion
	Investment choice / Le choix d'investissement	4-8h	To be discussed	BSc3, Master	French, English	Open to discussion



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## BUSINESS AND MANAGEMENT

	Full cost method / La méthode des coûts complets	4-8h	To be discussed	BSc3, Master	French, English	Open to discussion
	Corporate Governance / La gouvernance d'entreprise	4-8h	To be discussed	BSc3, Master	French, English	Open to discussion
	Idea generation (new enterprises)	4-8h	To be discussed	BSc3, Master	English	Open to discussion
	Fintech (financial technology) introduction	4-8h	To be discussed	BSc3, Master	English	Open to discussion
	Financial management (entreprises and start-ups)	4-8h	To be discussed	BSc3, Master	English	Open to discussion
	Foreign Direct Investment	4-8h	To be discussed	BSc3, Master	English	Open to discussion
	The foreign exchange market	4-8h	To be discussed	BSc3, Master	English	Open to discussion
	The international monetary system	4-8h	To be discussed	BSc3, Master	English	Open to discussion
	The global capital market	4-8h	To be discussed	BSc3, Master	English	Open to discussion
	Introduction to Entreprise Risk Management	4-8h	To be discussed	BSc3, Master	English	Open to discussion
	Introduction to the agri-food sector in Europe	4-8h	To be discussed	BSc3, Msc	French, English	no

## AGRICULTURE AND LANDSCAPE

	Plant Breeding and Genetics (Breeding methods and Biotechnologies used in Plant Breeding)	8h	To be discussed	Master	French, English	Open to discussion
	Biocontrol for Sustainable Crop Protection (Biocontrol of plant pathogens using microorganisms and natural substances; Plant immunity and induced resistance in plants against plant pathogens)	8h	To be discussed	Master	French, English	Open to discussion
	French livestock systems	2-8h	To be discussed	Master	French, English	Open to discussion
	Milk production and dairy chain	4-12h	To be discussed	Master	French, English	Open to discussion
	Quality signs in agricultural products in France	4-8h	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	English, French	Open to discussion
	livestock production systems and animal welfare	3-4h	To be discussed	BSc 3, Master	English, French	Open to discussion
	Animal welfare	4-12h	To be discussed	BSc 3, Master	English, French	Open to discussion
	Climate fresk	3h	To be discussed	BSc, Master	English, French	no
	Overview of French agricultural practices: current situation/CAP/crop fertilization/industrial crops	16h	Oct. - Nov.	Master1	French	Face to face
	2 tons workshop	3-3h30	To be discussed	BSC, Master, staff	French, English	Open to discussion
	One-health workshop	3h	To be discussed	Master, staff	French, English	Open to discussion

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## FOOD SCIENCES

	Food Safety Management Systems	8-16h	To be discussed	MSc	French, English	no
	HACCP and Prerequisite programs	8-16h	To be discussed	BSc3, Msc	French, English	no
	Sensory Evaluation	8-24h	To be discussed	MSc	French, English	no
	Nutrition applied to food companies, French gastronomy	8-16h	To be discussed	MSc	English, French	no
	Design of experiments	12-24h	To be discussed	MSc	French, English	no
	Dairy processings	4-8h	To be discussed	BSc3, Msc	French, English	no
	Food and industrial fermentation	4-12h	To be discussed	MSc	French, English	no
	Unit Operations	8-16h	To be discussed	BSc3, Msc	French, English	no
	Introduction to ERP (using a SAP simulation game)	8-16h	To be discussed	BSc3, Msc	French, English	no
	Introduction to the agri-food sector in Europe	4-8h	To be discussed	BSc3, Msc	French, English	no
	Introducto R&D and innovation	8-16h	To be discussed	BSc3, Msc	French, English	no
	Brewing process	4 to 8h	to be discussed	BSc3 or MSc	French, English	no
	Supply chain serious game (from forecasts to information systems)	8 to 16h	to be discussed	BSc3 or MSc	French, English	no
	Six sigma serious game	8h	to be discussed	BSc3 or MSc	French, English	no

## BUILDING AND URBAN ENVIRONMENT

	Sustainable architecture / construction	4-8h	To be discussed	BSC3, Master	French, English	open to discussion
	Architecture History Culture	4-8h	To be discussed	BSC3, Master	French, English	open to discussion
	Smart cities and smart building	10h	To be discussed	Master	English,French	open to discussion
	Building Information Modeling (BIM) fundamentals	8-15h	To be discussed	BSC3, Master	English,French	open to discussion
	Smart Management System	8-15h	To be discussed	BSC3, Master	English, French	open to discussion
	Revit Software	20-25h	To be discussed	BSC3, Master	English, French	open to discussion
	Digital Twins (DT)	4-8h	To be discussed	BSC3, Master	English,French	open to discussion
	Functional textiles	8h	To be discussed	Master	English,French	open to discussion
	Technical & smart textiles	8h	To be discussed	BSC3, Master	English,French	Open to discussion
	Fibrous materials	8h	To be discussed	BSC2,BSC3, Master	English,French	Open to discussion
	Advanced technical textile	8h	To be discussed	Master	English, French	Open to discussion
	Waste Management and Circular Economy in Civil Engineering	6-8h	To be discussed	BSC3, Master	English, French	open to discussion
	Sustainable Engineering and Green Construction	8h	To be discussed	BSC3, Master	English, French	open to discussion

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## COMPUTER SCIENCE AND MATHEMATICS

	Applications of Markov Chains and Random Processes	8-12h	To be discussed	BSc2, BSc3, Master	French, English	Open to discussion
	Modern Cryptography (elliptic curves, post-quantum...)	8-12h	To be discussed	Master	French, English	Open to discussion
	Pentesting	8-20h	To be discussed	Master	French, English	Open to discussion
	Modeling Techniques in Mixed-Integer Linear Programming	8h	To be discussed	BSc3, Master	French, English	no
	AI : Machine Learning and Deep Learning	8h	Nov./Dec./April/May	Master	English	no
	AI : Reinforcement Learning	8h	Nov./Dec./April/May	Master	English	no
	Computer Vision	8h	Nov./Dec./April/May	Master	English	no
	Hardware AI : CUDA programming	8h	Nov./Dec./April/May	Master	English	no
	Generative AI and LLM	8h	Nov./Dec./April/May	Master	English	No

## SMART SYSTEMS AND ENERGIES

	Photovoltaic system sizing, implementation, control and production forecast	8-12h	March to July	BSc3 or Master	French or English	No
	Advanced Fluid Dynamics	15-20h	To be discussed	Master	English	Open to discussion
	Advanced Heat Transfer	15-20h	To be discussed	Master	English	Open to discussion
	Renewable Energy Systems (1)	8-12h	March to July	Master	French, English	No
	Renewable Energy Systems (2)	8-12h	To be discussed	Master	English	Open to discussion
	Smart grids, Energy management , P2P energy exchange (1)	8-12h	To be discussed	Bsc3, Master	French, English	Open to discussion
	Smart grids, Energy management , P2P energy exchange (2)	8-12h	To be discussed	Bsc3, Master	English	Open to discussion
	Thermodynamic 1	8-12h	To be discussed	BSc3	English	Open to discussion
	Thermodynamic 2	8-12h	To be discussed	BSc3	English	Open to discussion
	Structural mechanics (Strength of Material)	8-12h	To be discussed	BSc3	English	Open to discussion
	Dynamics	8-12h	To be discussed	BSc3	English	Open to discussion
	Internal combustion Engine (ICEs)	8-12h	To be discussed	BSc3, MSc	English	Open to discussion
	Mechanical Design	8-12h	To be discussed	BSc3	English	Open to discussion
	Blockchain and energy	8-12h	To be discussed	Master	French, English	Open to discussion
	Power system modeling and simulation (NEW)	12-16h	March to July	Master	French, English	No
	Intelligent Load Control and Management in Smart Power Networks (NEW)	8-12h	To be discussed	Bsc3, Master	English	Open to discussion



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