

INTERNATIONAL SEMESTER

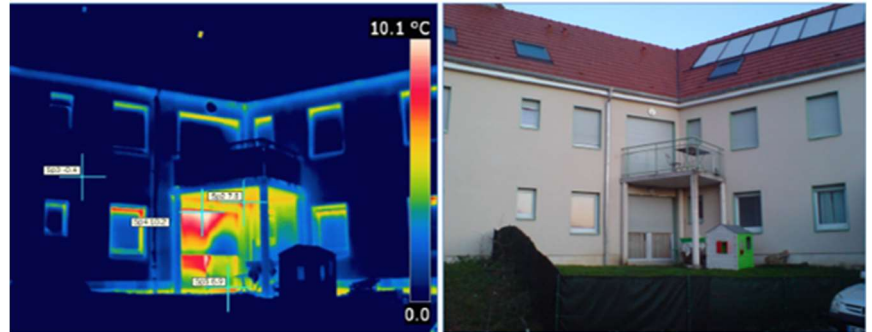
for Erasmus students



Energy engineering major

Bachelor Level

FALL SEMESTER



code	courses	Hourly volume	ECTS	Oral language	powerpoint and paper support
ESP053AT	Computer-assisted design and drawing (CADD)	21	3	English	English
ESP051DT	Technical English	12	2	English	English
ESE054AE	Introduction to Heat Transfer	57	5	English (lectures) French (practical works)	English
ESE055AE	Fluid Mechanics, Hydraulic Network	57	5	French (lectures) English (exercise & practical work)	English
ESE056E	Thermal metrology	18	2	English	English
	Energy-Efficient Building Materials	21		English	English
ESP093	PROJECT		14	English	English
TOTAL		186	31		

SPRING SEMESTER

code	courses	Hourly volume	ECTS	Oral language	powerpoint and paper support
ESP062AT	Strength of materials	54	4	English	English
ESP061CT	Technical English	12	2	English	English
ESE063AE	Building Energy - Pleiades	18	3	English	English
	Building Energy - BIM	12		French (lectures) English (exercises)	
ESE064AE	Thermodynamics	57	5	French (lectures) English (exercises and practical works)	English
ESP065AE	Convection, Heat Exchangers	36	4	French (lectures) English (exercises)	English
TOTAL		189	30		

INTERNATIONAL SEMESTER

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Packaging engineering major

Bachelor Level

FALL SEMESTER



code	courses	Hourly volume	ECTS	Oral language	powerpoint and paper support
ESP053AT	Computer-assisted design and drawing (CADD)	21	3	English	English
ESP051DT	Technical English	12	2	English	English
ESP055AP	Metal and Glass	24	2	English	English
ESP055BP	Wood, paper, cardboard	48	4	French	English
ESP054BP	Macromolecular chemistry practical work	16	2	English	English
ESP076AT	PROJECT		3	English	English
ESP093	PROJECT		14	English	English
TOTAL		121	30		

SPRING SEMESTER

code	courses	Hourly volume	ECTS	Oral language	powerpoint and paper support
ESP062AT	Strength of materials	54	4	English	English
ESP081CT	Technical English	12	1	English	English
ESP063AP	Polymer materials (properties, aging, biomaterials)	20	4	English	English
	Polymer aging, biomaterials	18		French	
ESP063BP	Polymer processing in packaging applications	40	4	English	English
ESP065AP	Printing process management	48	3	French	English
ESP093	PROJECT		14	English	English
TOTAL		192	30		

INTERNATIONAL SEMESTER

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Energy engineering major

Master Level

FALL SEMESTER



code	courses	Hourly volume	ECTS	Oral language	powerpoint and paper support
ESP071AT	Project management	30	1	French	English
ESP051DT	Technical English	18	2	English	English
ESE074BE	Radiation Heat Exchanges	72	5	English (lecture and practical works) French (exercises)	English (lecture and practical works) French (exercises)
ESE075AE	Convective Heat Transfer	57	5	French	English
ESE075BE	Numerical Methods of Heat Transfers	30	3	English	English
ESP093	PROJECT		14	English	English
TOTAL		207	30		

SPRING SEMESTER

code	courses	Hourly volume	ECTS	Oral language	powerpoint and paper support
ESP083AT	Cost analysis and control	16	1	French	English
ESP081CT	Technical English	5	1	English	English
ESP085AP	Life cycle analysis	18	1	French	English
ESE084AE	Thermal Simulation Comsol / Computational Fluid Dynamics (CFD) - Fluent	48	4	English	English
ESE084BE	Energy Project	15	6	French	English
ESP076AT	PROJECT		3	English	English
ESP093	PROJECT		14	English	English
TOTAL		102	30		

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Packaging engineering major

Master Level

FALL SEMESTER



code	courses	Hourly volume	ECTS	Oral language	powerpoint and paper support
ESP073AT	Project management	30	3	French	English
ESP051DT	Technical English	18	2	English	English
ESP074AP	package/product interactions (preservation, conservation)	60	4	French	English
ESP074BP	Packaging machinery	32	4	English	English
ESP076AT	PROJECT		3	English	English
ESP093	PROJECT		14	English	English
TOTAL		140	30		

SPRING SEMESTER

code	courses	Hourly volume	ECTS	Oral language	powerpoint and paper support
ESP083AT	Cost analysis and control	16	1	French	English
ESP081CT	Technical English	5	1	English	English
ESP085AP	Life cycle analysis	18	1	French	English
ESP074AP	CAD and numerical simulation	48	4	French (lectures) English (exercises & practical works)	English
ESP04CP	Creation design project	14	3	French	English
ESP085BP	package/product interactions II: migration	36	4	English	English
ESP076AT	PROJECT		3	English	English
ESP093	PROJECT		14	English	English
TOTAL		137	31		