

Studies Plan

Mineur : Energie 2023-24

Minor : Energy

Courses			Exam Session	Exam	Credit
Language	Code	Section	Teacher		
Advanced energetics					
E	ME-451	GM	Maréchal	Win	Oral 5
Air pollution					
E	ENV-409	SIE	Reimann Bhend Takahama	Sum	Written 5
Dam engineering					
E	CIVIL-411	GC	Manso Mouvet	Win	Oral 3
Electrochemical engineering					
E	ChE-407	CGC	Boghossian	Win	Written 3
Energy and comfort in buildings					
E	ENG-445	GC	Licina Sonta	Win	During the 4 semester
Energy conversion and renewable energy					
E	ME-409	GM	Maréchal Nguyen	Win	Written 4
Energy geostructures					
E	CIVIL-444	GC	Laloui	Sum	Written 4
Energy storage in power systems: technologies, applications and future needs					
E	EE-466	EL	Torregrossa	Win	Written 3
Engineering geology for geo-energy					
E	CIVIL-428	GC	Nussbaum	Sum	During the 3 semester
Engines and fuel cells					
E	ME-551	GM	Van Herle	Win	Written 4
Fundamentals & processes for photovoltaic devices					
E	MICRO-565	MT	Ballif	Sum	Written 3
Fundamentals of separation processes					
E	ChE-310	CGC	Agrawal	Sum	Written 4
Heterogeneous reaction engineering					
E	ChE-403	CGC	Renken	Win	Written 4
Hydraulic turbomachines					
E	ME-453	GM	Vagnoni	Win	Written 4
Industrial electronics I					
E	EE-465	EL	Dujic	Win	Oral 4
Industrial electronics II					
E	EE-565	EL	Dujic	Sum	Oral 4
Introduction to nuclear engineering					
E	ME-464	GM	Scolaro	Sum	Oral 2
Life cycle assessment in energy systems					
E	ENV-510	EL	Margni	Win	Written 3
Modelling and optimization of energy systems					
E	ME-454	GM	Maréchal	Win	Oral 4
Plasma I					
E	PHYS-423	PH	Theiler	Win	Oral 6
Plasma II					
E	PHYS-424	PH	Reimerdes	Sum	Oral 6
Power systems dynamics					
E	EE-470	EL	Cherkaoui	Sum	During the 3 semester
Principles of power systems					
E	EE-473	EL	Paolone	Sum	Written 2
Process development					
E	ChE-459	CGC	Gouveia Braz Maréchal	Sum	During the 8 semester
Project in Energy					
	ME-450	GM	Profs divers	Sum Win	During the 10 semester

<i>E</i>	Smart grids technologies <i>EE-472</i>	<i>EL</i>	<i>Paolone</i>	<i>Sum</i>	<i>Written</i>	<i>5</i>
<i>E</i>	Solid waste engineering <i>ENV-500</i>	<i>SIE</i>	<i>Ludwig</i>	<i>Win</i>	<i>During the semester</i>	<i>4</i>
<i>E</i>	Sustainability assessment of urban systems <i>ENV-461</i>	<i>SIE</i>	<i>Duygan Wall Gago</i>	<i>Sum</i>	<i>During the semester</i>	<i>3</i>
<i>E</i>	Thermal power cycles and heat pump systems <i>ME-459</i>	<i>GM</i>	<i>Schiffmann Van Herle</i>	<i>Sum</i>	<i>Written</i>	<i>3</i>