Master of Science and Technology CSE

Environmental engineering syllabus

1st year - 70ECTS

Name	Course unit code	Year	Semester	Hour	ECTS	Teacher
Transport phenomena	TRPH	1	1	32	4	C. Baron, P. Denis, F. Schwander
Computer Sciences and Num. methods	CSNM	1	1	24	3	O. Boiron
Hydraulics and Hydrology	HYHY	1	1	24	3	O. Boiron
Introduction to chemical eng.	INCE	1	1	24	3	J. Du
Introduction to environmental eng.	INEE	1	1	24	3	J. Muyldermans, P. Boyer
Energy and environment	ENEN	1	1	24	3	P. Denis, P. Crespi, F. Mermaz
Geomatics	GEOM	1	1	24	3	J.-M. Métivier
Industrial engineering	INE7	1	1	32	4	
Train'Eng	JOT7	1	1	32	2	
French	LAN7	1	1	20	2	V. Hamel
Project	PRO7	1	1	30	3	F. Magnani
Seminars	SEM7	1	1		1	
Winter Lab internship	STL7	1	1	8 weeks	6	

Name	Course unit code	Year	Semester	Hour	ECTS	Teacher
Environmental management	ENMA	1	2	35	3	N. Clootens
Circular economy and sustainable design	CIES	1	2	47	4	C. Jalain
Pollutants and water waste	POWW	1	2	33	2	N. Ibaseta
Green chemistry	GRCH	1	2	46	4	D. Herault
Environmental monitoring	ENMO	1	2	46	4	A. Roueff
Renewable energies	REEN	1	2	24	2	O. Boiron, M. Henriet, J.C. Urbani
French	LAN8	1	2	20	2	V. Hamel
Summer internship	STG8	1	2	2months	6	
Project	PRO8	1	2	38	3	F. Anselmet

2nd year - 70ECTS

Name	Course unit code	Year	Semester	Hour	ECTS	Teacher
Computer Sciences & data sciences	CSDS	2	1	24	3	V. Pesce
Energy efficiency	ENEF	2	1	24	3	N. Ibaseta, P. Guichardon
Advanced fluid mechanics	MEFA	2	1	24	3	F. Anselmet
Coastal engineering	COEN	2	1	24	3	J. Touboul
Bioprocess	BIOP	2	1	24	3	A. Soric
Water management	EAUX	2	1	24	3	A. Soric
Geophysical flows	GEOF	2	1	24	3	O. Boiron, P. Maugis
Geographical Economics and territory efficiency	GETE	2	1	24	3	F. Rychen
Elective course	ELC9	2	1	24	3	
Ethics of responsability	ETRE	2	1	12	1	
Industrial engineering (filières)	INE9	2	1	100	6	
French	LAN9	2	1	30	2	V. Hamel
Project – Lab work	PRO9	2	1	100	2	
Seminars	SEM9	2	1		2	
Name	**Course unit code**	**Year**	**Semester**	**Hour**	**ECTS**	**Teacher**
Master thesis	THES	2	2	4-6months	30	

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