

# 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	F. Schwander
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	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	Fiona Pommeret
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. Cloutens
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. Henriët, 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
<a href="#">Computer Sciences &amp; data sciences</a>	CSDS	2	1	24	3	<a href="#">V. Pesce</a>
<a href="#">Energy efficiency</a>	ENEF	2	1	24	3	<a href="#">J. Du</a>
<a href="#">Advanced fluid mechanics</a>	MEFA	2	1	24	3	<a href="#">M. Abid, O. Boiron, D. Mazzoni</a>
<a href="#">Coastal engineering</a>	COEN	2	1	24	3	<a href="#">J. Touboul</a>
<a href="#">Bioprocess</a>	BIOP	2	1	24	3	<a href="#">P. Chambonnière</a>
<a href="#">Water management</a>	EAUX	2	1	24	3	<a href="#">P. Chambonnière</a>
<a href="#">Geophysical flows</a>	GEOF	2	1	24	3	<a href="#">O. Boiron</a>
<a href="#">Geographical Economics and territory efficiency</a>	GETE	2	1	24	3	<a href="#">F. Rychen</a>
<a href="#">Elective course</a>	ELC9	2	1	24	3	
<a href="#">Ethics of responsibility</a>	ETRE	2	1	12	1	
<a href="#">Industrial engineering (filières)</a>	INE9	2	1	100	6	
<a href="#">French</a>	LAN9	2	1	30	2	<a href="#">V. Hamel</a>
<a href="#">Project and Seminars</a>	PRO9	2	1	100	4	
Name	Course unit code	Year	Semester	Hour	ECTS	Teacher
<a href="#">Master thesis</a>	THES	2	2	4-6months	30	

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