# 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 | 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. 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 | J. Du |
| 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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