



France

**Master's Program in Environmental Fluid Mechanics
2018-2019**

First year : « M1 Applied Mechanics »

Summary

Tools and methods: 15 ECTS

Research project: 21 ECTS

English or French: 3 ECTS

Lectures: 21 ECTS

FIRST SEMESTER

English or French	3 ECTS
Mechanics of continuous media*	3 ECTS
Fluid mechanics	3 ECTS
Experimental techniques and methods (I)	3 ECTS
Numerical methods in fluid mechanics* (I)	3 ECTS
Image and signal processing	3 ECTS
Convection in industrial and geophysical flows*	3 ECTS
Research project 1	9 ECTS

SECOND SEMESTER

Research project 2	12 ECTS
Experimental techniques and methods (II)	3 ECTS
Numerical methods in fluid mechanics (II)	3 ECTS
Introduction to instability and turbulence	3 ECTS
Waves in fluids	3 ECTS
Introduction to Geophysical fluid dynamics*	3 ECTS
Environmental flows*	3 ECTS

*Joint course with another Master's program