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| N° ECUE | XA4S603 | | | | | | | | |
| Title | Mathematical Engineering Project | | | | | | | | |
| ECTS: 1 |  | Lecture(h)  CM : 1,5 |  | Tutorials (h)  TD : |  | Pratical works (h) TP |  | Project (h)  5 |  |
| Description  Application of mathematical methods in a context of a complex multidisciplinary study in the field of water.  Students are organized in groups of three and lead a multidisciplinary study using various methods of the engineer: even unfamiliar and not completely defined problem identification and solving, data analysis and interpretation, use of computer tools, complex systems analysis and design.  These studies can address, for example, a flood or low-water risk analysis, the fate of a pollutant in the environment, or the environmental impact of a contaminant.  During three months, the students exchange with the tutor teachers to carry out their project.  Use of R and Excel software to conduct statistical analyses. | | | | | | | | | |
| Key Words | modeling, statistics, conceptualization, equation solving | | | | | | | | |
| Type of Evaluation | The final grade is based on a report (2/3) and an oral presentation (1/3) | | | | | | | | |