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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 |  |
| DescriptionApplication 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) |