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| N° ECUE | XA4S621 | | | | | | | | |
| Title | Solid/liquid separation | | | | | | | | |
| ECTS |  | Lecture(h)  CM 13.5 |  | Tutorials (h)  TD 13.5 |  | Pratical works (h) TP 10.5 |  | Project (h) |  |
| Description  The teaching integrates notions about:  - flow of fluids around free or concentrated particles with an application mainly focused on the calculation of separation-concentration units by settling (settling of particles, settling of thick slurry, flotation, centrifugation)  - flow of a fluid in a homogeneous porous medium; the application being targeted to the frontal filtration operations (supported filtration and sand filtration) for the clarification of the waters or the concentration of co-products.  This course is then put into practice on pilot size installations during practical work: fluidization, bulk filtration, dead-end filtration, discrete settling, settling of thick slurry. | | | | | | | | | |
| Key Words | Settling, filtration, design of water treatment structures | | | | | | | | |
| Type of Evaluation | 2 exams and practical work theory | | | | | | | | |