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| N° ECUE | XA4S513 | | | | | | | | |
| Title | Hydrodynamic in reactors | | | | | | | | |
| ECTS |  | Lecture(h)  CM |  | Tutorials (h)  TD |  | Pratical works (h) TP |  | Project (h) |  |
| Description  This course aims to introduce the notions of mixing efficiency, macro and micro mixing, into a reactor (or exchanger) and the consequences on the performance and optimal design of units.  The teaching has two main parts:  - Theory of the reactors: residence time distribution, behavior of ideal reactors (plug-flow and Continuous Ideally Stirred-Tank Reactor (CISTR)), flow anomalies, behavior of real reactors and simplified models of flow (jCISTR in series...)  - Mixing notions to illustrate an upscaling problem | | | | | | | | | |
| Key Words | Mixing, reactor, hydrodynamic | | | | | | | | |
| Type of Evaluation | Exam  Practical work | | | | | | | | |