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| N° ECUE | XA4S513 |
| Title | Hydrodynamic in reactors |
| ECTS |  | Lecture(h)CM |  | Tutorials (h)TD |  | Pratical works (h) TP |  | Project (h) |  |
| DescriptionThis 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 | ExamPractical work |