

Title: **Flow diagrams using AutoCAD Plant 3D**

Student: Andreu Lorente Tribó

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Supervisor/s: Dr. Jordi Bonet Ruiz

Departament of Chemical engineering and analytical chemistry

Dra. Alexandra Elena Plesu Popescu

Departament of Chemical engineering and analytical chemistry

Flowcharts are standard representations of the chemical plant that any chemical engineer should be able to understand. Computer capabilities and dedicated software now make this task easier, and chemical engineering can focus on key aspects of the time-saving flowchart. This is a TFG dedicated to improving and updating the corresponding chapter of the subject Graphic Expression. Today, the flowcharts in this subject are represented by the classic AutoCAD drawing capabilities, but there is software called AutoCAD Plant 3D that is available to UB students for free, more focused on this task. This software improves the speed of creating diagrams thanks to pre-designed blocks that comply with existing regulations.

To facilitate the student's learning about the software, a total of 7 different tasks have been created where a wide variety of tools proposed by the program are used. A presentation of more than 350 slides has also been created with an explanation of how to perform the tasks discussed above.