

G1772 PRODUCT DESIGN PROJECT

DESCRIPTION

A logical consequence of the new environment that surrounds chemical companies and chemical engineers is the recognition and emergence of chemical product design (CPD) as a very important new field within the scope of chemical engineering, both from a research and a teaching perspective. As a new field of chemical engineering, CPD intrinsically has a multiscale nature, ranging from the molecular scale to the macroscopic level.

Being aware of that reality and emerging needs, in the University of Cantabria offers a one-semester CPD course. The course is titled **Product Design Project** and is developed in the second semester of the 4th year of the Chemical Engineering Degree.

The course is basically aimed at having the students learning about and practicing the several steps involved in the efficient creation, development and launching of a chemical product able to meet customer needs. Furthermore, it is also intended to make students aware of which tools are available to cope with each of the steps of the chemical product development process.

The students gain a better understanding of the interdisciplinary approach needed to bring successful products on the market today, by:

- Team work learning
- Project-oriented course
- Seminars by professionals from industry
- Visits to the decision making centers about product design and manufacturing
- Use of real examples and case studies