UCL Faculté des sciences appliquées

FSA

MAPR2320 Process development in industrial organic chemistry

[30h+15h exercises] 4 credits

This course is taught in the 1st semester

Teacher(s): Christian Bailly, Fernand Thyrion
Language: french
Level: 2nd cycle course

Aims

Aimed to realize the integration of the main courses of chemical engineering (chemical thermodynamics, kinetics, transport phenomena, reactors and optimisation) thanks to the pertinent choice of process development in the field of industrial organic chemistry and petrochemistry.

Main themes

Processes development and recent trends in:
- Hydrodesulfuration units
- Conversion units in petroleum refinery: thermal cracking,hydrocracking and fluid catalytic cracking,
- Homogeneous or heterogeneous catalytic oxidations of: cyclohexane,ethylene,butane,benzene and xylenes,
- Polymerization processes of thermoplastic resins with emphasis on the relationship between the product properties and the experimental conditions

Other credits in programs

INCH22	Deuxième année du programme conduisant au grade d'ingénieur civil chimiste	(4 credits)