

Course Package

Industrial Processes

Name module	Chemistry and Technology of Materials
Educational programme	BSc Chemical Engineering
Period	First quartile of the first semester (Quarter 1A)
Study load	15 ECTS
Coordinator	M.A. Stehouwer

Chemistry and Technology of Materials			
Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
Mathematics D2 (2 EC)			
Kinetics & Catalysis (4,5 EC)			
Industrial Chemistry & Processes (4,5 EC)			
Design Project Sustainable Processes (4 EC)			

Required preliminary knowledge: Basic course in thermodynamics, some knowledge of separation methods.

During this module the focus is on designing and studying chemical processes. Not only will you do this at a molecular level, where reaction kinetics and catalysis are important subjects, but also at process level. At process level, you will outline the most important process steps needed to make a desired product from different raw materials, such as crude oil, natural gas or biomass. In your Sustainable Industrial Chemistry team project, you will study a process in detail and see if you can make it more sustainable and also considering the social implications.