

Course Package

Physical Transport/Transport Phenomena

Name module	Physical Transport/Transport Phenomena
Educational programme	BSc Chemical Engineering
Period	Second quartile of the first semester (Quarter 1B)
Study load	15 ECTS
Coordinator	M.A. Stehouwer

Physical Transport/Transport Phenomena			
Quarter 1A	Quarter 1B	Quarter 2A	Quarter 2B
	Physical Transport Phenomena (PTP) (7,5 EC)		
	Lab Course PTP (3,5 EC)		
	Project Numerical Modelling (4 EC)		

Required preliminary knowledge: Basic course in Thermodynamics, Preferred knowledge: Basics of Programming (Matlab), some Lab Experience.

Throughout this module you will learn how the fundamental aspects and the basic equations for describing transport of impulse, mass and energy can be applied to situations in engineering and everyday life. The ability to draft and (numerically) solve conservation laws (balances) is a core skill for (chemical) engineers. In your modelling project you will directly apply the knowledge you have gained. With the help of experiments, you will verify the models and determine the unknown parameters within the model.