Course: Chemical Calculations — credits: 5

Course code	CCVP23CHREKENEN
Name	Chemical Calculations
Study year	2023-2024
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	L. Bosgraaf

Modes of delivery	Assignment Practical / Training Project-based learning Teaching method 1 Tutorial
Assessments	Applied Statistics - Written, organised by STAD examinations Theory and Study Skills - Written, organised by STAD examinations

Learning outcomes

This module has the following learning outcomes:

You give systematic names to molecular substances and salts.

You perform calculations of concentrations, dilutions and stoichiometry in the various units commonly used in the laboratory.

You know and apply the gas laws.

You set up a reaction rate equation and calculate the reaction rate.

You calculate the composition of a chemical equilibrium, as well as its change with changes in pressure, temperature, or concentrations.

You know and apply concepts from descriptive statistics

You master laboratory basics techniques (weighing and pipetting) and make a logbook according to the applicable guidelines.

DAS competenCIES

Competency	Level (I-IV)
Research	I
Experimentation	I
Development	
Management	
Advise	I
Instruction	
Leadership	
Self-Management	I

Content

This module focuses on Chemical Mathematics and Statistics. Theory is imparted through 25 instructional lectures. In addition, part of the statistics learned will be applied during the Technology Day. Logbook instruction will also be given during this practical day.

Included in programme(s)

Chemical Engineering
Chemistry

School(s)

Institute for Life Science & Technology

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