Module Description
21-SC-10 Research Project A: Chemistry of Energy

Faculty of Chemistry

Version dated Jun 5, 2026

This module guide reflects the current state and is subject to change. Up-to-date information and the latest version of this document can be found online via the page

https://ekvv.uni-bielefeld.de/sinfo/publ/modul/694345788

The current and valid provisions in the module guide are binding and further specify the subject-related regulations (German "FsB") published in the Official Announcements of Bielefeld University.

Non-official translation of the module descriptions. Only the German version is legally binding.

21-SC-10 Research Project A: Chemistry of Energy

Faculty

Faculty of Chemistry

Person responsible for module

Prof. Dr. Thorsten Glaser

Prof. Dr. Stephan Hammer

Prof. Dr. Thomas Koop

Regular cycle (beginning)

Every winter semester

Credit points

10 Credit points

Competencies

The module is conducted as an independent research project within a working group of the faculty. Upon completion of the module, students can address basic research questions in an independent manner. They are capable of conducting a literature review and proposing a research plan based on it. Students can independently design specific experiments related to selected questions in the field of renewable energies, energy storage and energy transformation, utilizing or modifying existing experimental setups in the research groups. Students are also able to critically evaluate their experimental results and draw relevant conclusions from the findings. Furthermore, the students acquire skills in time management and team work.

Content of teaching

The module covers relevant experimental methods and evaluation procedures for research questions in the field of renewable energies, energy storage, and energy transformation. The topics include current research questions from the working groups.

Recommended previous knowledge

Advanced knowledge of physical, organic and inorganic chemistry

Necessary requirements

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Explanation regarding the elements of the module

Module structure: 1 SL, 1 uPr [1]

Courses

Title	Type	Regular cycle	Workload [5]	LP[2]
Research Project A: Chemistry of Energy	internship with seminar component / laboratory internship with seminar component	WiSe	300 h (240 + 60)	10 [SL] [Pr]

Study requirements

Allocated examiner	Workload	LP[2]
Teaching staff of the course **Research Project A: Chemistry of Energy (internship with seminar component / laboratory internship with seminar component)** *Seminar presentation of approx. 30 minutes*	see above	see above

Examinations

Allocated examiner	Type	Weighting	Workload	LP[2]
Teaching staff of the course **Research Project A: Chemistry of Energy (internship with seminar component / laboratory internship with seminar component)** *Portfolio consisting of a research plan, experiment execution and recording of observations and results and preparation of a written internship report of a maximum of 30 pages as well as presentation of the results.*	Portfolio	without grades	-	-

Legend

1	The module structure displays the required number of study requirements and examinations.
2	LP is the short form for credit points.
3	The figures in this column are the specialist semesters in which it is recommended to start the module. Depending on the individual study schedule, entirely different courses of study are possible and advisable.
4	Explanations on mandatory option: "Obligation" means: This module is mandatory for the course of the studies; "Optional obligation" means: This module belongs to a number of modules available for selection under certain circumstances. This is more precisely regulated by the "Subject-related regulations" (see navigation).
5	Workload (contact time + self-study)
SoSe	Summer semester
WiSe	Winter semester
SL	study requirement
Pr	Examination
bPr	Number of examinations with grades
uPr	Number of examinations without grades