

Course

ENS - Energy Storage

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^ General information

Long name	Energy Storage
Approving CModule	ENS_BaET
Responsible	Prof. Dr. Ingo Stadler Professor Fakultät IME
Level	Bachelor
Semester in the year	winter semester
Duration	Semester
Hours in self-study	78
ECTS	5
Professors	Prof. Dr. Ingo Stadler Professor Fakultät IME
Requirements	Mathematics Physics
Language	German, English if necessary
Separate final exam	Yes

Final exam

Details

Students know and explain the diverse energy storage solutions in the sectors of electricity, heating / cooling, gas and mobility and can select and calculate the best possible storage concepts for given storage tasks.

Minimum standard

As a rule, at least 50% of the possible achievable points are necessary to pass the exam .

Exam Type

Students know and explain the diverse energy storage solutions in the sectors of electricity, heating / cooling, gas and mobility and can select and calculate the best possible storage concepts for given storage tasks.

^ Lecture / Exercises

Learning goals

Knowledge

Students know and explain the diverse energy storage solutions in the sectors of electricity, heating / cooling, gas and mobility and can select and calculate the best possible storage concepts for given storage tasks.

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Lecture	2
Exercises (whole course)	1
Exercises (shared course)	0
Tutorial (voluntary)	0

Separate exam

none

^ Project

Learning goals

Skills

Students receive an energy storage task to be solved. For this, they develop an energy storage concept and justify the elaborated solution technically and economically.

Expenditure classroom teaching

Type	Attendance (h/Wk.)
Project	1
Tutorial (voluntary)	0

Separate exam

Exam Type

working on practical scenarion (e.g. in a lab)

Details

Students write a project report.

Minimum standard

The report substantiates the chosen storage solution comprehensibly.