

Course Manual 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
Valid from	winter semester 2021/22
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

Literature

Energiespeicher: Bedarf - Technologien -
Integration

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

EN Klausur

– Lecture / Exercises

Learning goals

Goal type	Description
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.

Special requirements

none

Accompanying material	Springer Book: Handbook of Energy Storage
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Separate exam	No
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Expenditure classroom teaching

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

– Lecture / Exercises

Learning goals

Goal type	Description
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.

Special requirements

none

Accompanying material Terms of Reference

Separate exam Yes

Expenditure classroom teaching

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

Separate exam

Exam Type EN praxisnahes Szenario bearbeiten (z.B. im Praktikum)

Details Students write a project report.

Minimum standard The report substantiates the chosen storage solution comprehensibly.