HÖGSKOLAN VÄST

COURSE SYLLABUS

Course code: **K0003953**

Batteries in electric vehicles, 2,5 HE credits

Batterier i elfordon, 2,5 hp

Established: 2020-10-22
Established by: Department of Engineering Science
Applies from: V21

Learning outcomes

After completing the course, the student should:

- show knowledge of the characteristics of different battery types
- show understanding of the choice of battery type in relation to the vehicle's application
- be able to explain and analyse safety risks with respect to fire and electricity

Entry requirements

Undergraduate degree in Engineering (180 credits) or equivalent.

The forms of assessment of participant performance

Individual written assignment.

Course contents

- Lithium jon batteries
- Fuel cells
- Construction of batteries for vehicles
- Based on the function of the vehicle, select the relevant battery or fuel cell
- Risk analysis of battery management

Other regulations

Course grading: Failed or Passed
Course language: The teaching is conducted in English.

Cycle

Second cycle

Progressive specialization

A1N - second cycle, has only first-cycle course/s as entry requirements