

Course: Mechanical Transmission 1

credits: 2

Course code ELVH17GMA1
Name Mechanical Transmission 1
Study year 2022-2023
ECTS credits 2
Language Dutch, with parts in English
Coordinator A.M. Overweel-Vogelaar

Modes of delivery Lecture
Practical / Training
Tutorial
Assessments Mechanical Transmission 1 - Written,
organised by STAD examinations

Learning outcomes

The student:

- calculates the minimal diameter of an axle resulting from load, whether it is strong enough
- checks that an axle does not break the fatigue limit at a dynamic load
- does calculations concerning cogwheels in a given situation in which the information has been specified in tables and specification sheets of suppliers.

Content

This subject covers dimensioning axles, including fatigue and warping. In addition, the student learns the basic principles of cogwheels.

Included in programme(s)

Electrical Engineering Major Mechatronics

School(s)

Institute of Engineering

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