



LUNDS UNIVERSITET
Lunds Tekniska Högskola

Course syllabus

Transmissioner, dynamik Transmissions, Dynamics

MMEN05, 7,5 credits, A (Second Cycle)

Valid for: 2023/24

Faculty: Faculty of Engineering, LTH

Decided by: PLED M

Date of Decision: 2023-04-11

General Information

Main field: Technology.

Elective for: M4-pu

Language of instruction: The course will be given in Swedish

Aim

The course gives detailed knowledge in critical speeds and dynamic forces in gears and cam mechanisms.

Learning outcomes

Knowledge and understanding

For a passing grade the student must

- have knowledge of how vibrations in machine elements are calculated.

Competences and skills

For a passing grade the student must

- be able to analyse different kinds of machine elements with the purpose to reduce vibrations.

Contents

Bending- and torsional critical speeds.

Examination details

Grading scale: TH - (U,3,4,5) - (Fail, Three, Four, Five)

Assessment: Compulsory assignment and written examination.

The examiner, in consultation with Disability Support Services, may deviate from the regular form of examination in order to provide a permanently disabled student with a form of examination equivalent to that of a student without a disability.

Admission

Assumed prior knowledge: MMEF05 Transmissions.

The number of participants is limited to: No

Reading list

- M Mägi, K Melkersson, M Evertsson: Maskinelement. Studentlitteratur AB, 2017, ISBN: 9789144109053.

Contact and other information

Course coordinator: Rikard Hjelm, rikard.hjelm@mel.lth.se

Course homepage: <http://www.mel.lth.se/utbildning/dynamik/>

Further information: With less than 12 participants, the course may be given with reduced teaching and more self studies.