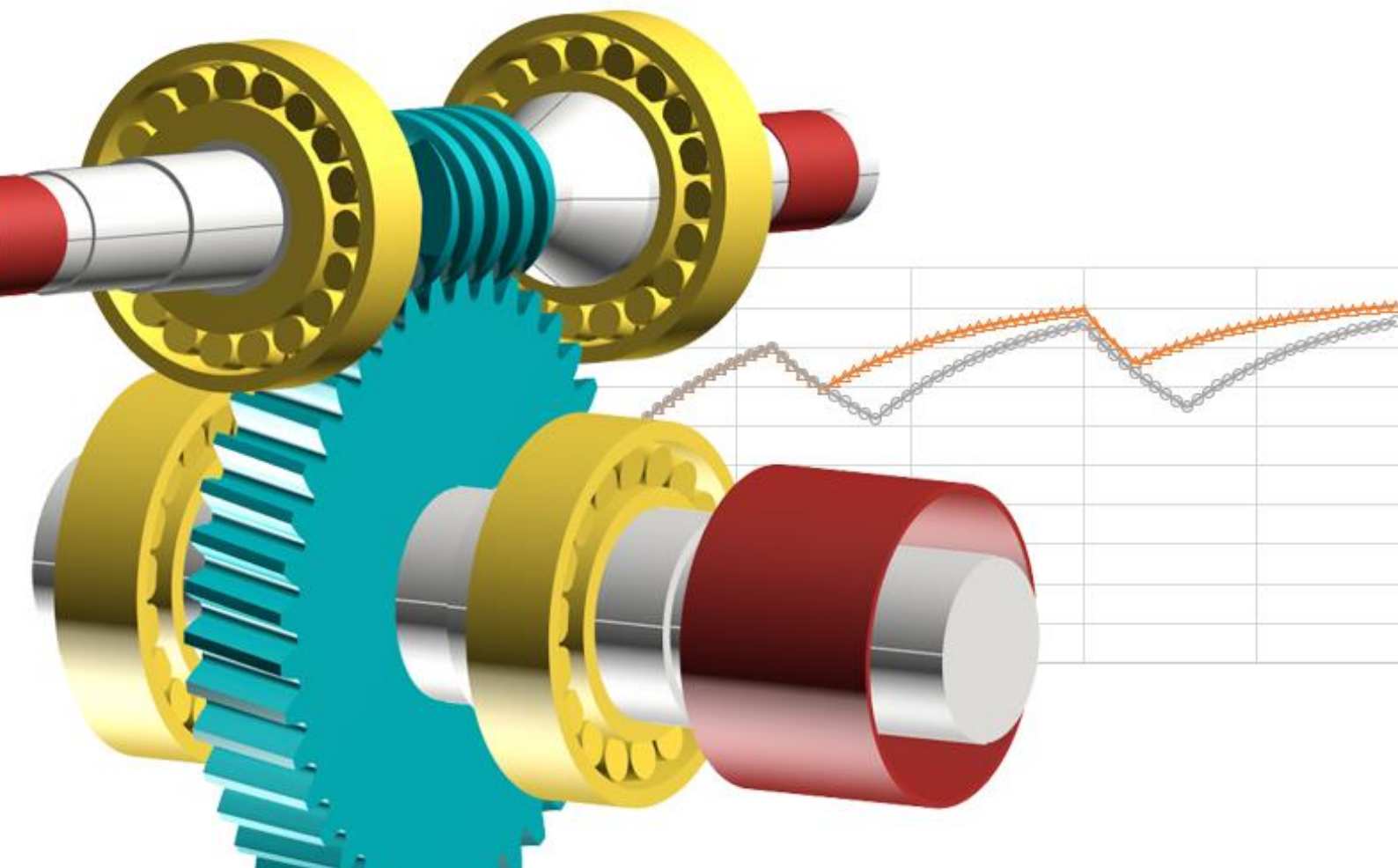


KISSsys Live Stream Training

Advanced: System Calculations

March 21-22, 2023



The below schedule is shown in time zone CET 2:00 pm – 6:00 pm (Brussels)

Session 1: March 21, 2023

2:00 – 2:10 pm Welcome, introduction
2:10 – 3:55 pm Efficiency and thermal analysis
3:55 – 4:10 pm Break
4:10 – 6:00 pm Load spectrum calculation

Exercises **Efficiency and load spectrum calculation**

Session 2: March 22, 2023

2:00 – 2:10 pm Exercise follow up
2:10 – 3:55 pm Housing stiffness consideration
3:55 – 4:10 pm Break
4:10 – 6:00 pm Modal analysis, system dynamics

Exercises **Housing stiffness**
System dynamics

Efficiency and Thermal Analysis

- Calculation of gear, bearing and churning losses
- Calculation of dissipation through housing and rotating parts
- Oil temperature over time

Load Spectrum Template

- Definition of a spectrum in KISSsys
- Calculation with different options
- Checking the result data

Housing Stiffness

- Theory
- Characteristics of a reduced stiffness matrix
- Reading in and calculating in KISSsys

Modal Analysis

- Calculation of system eigenfrequencies
- Generation and evaluation of Campbell Diagram

