KISSsys Live Stream Training

Advanced: System Calculations

September 19-20, 2023

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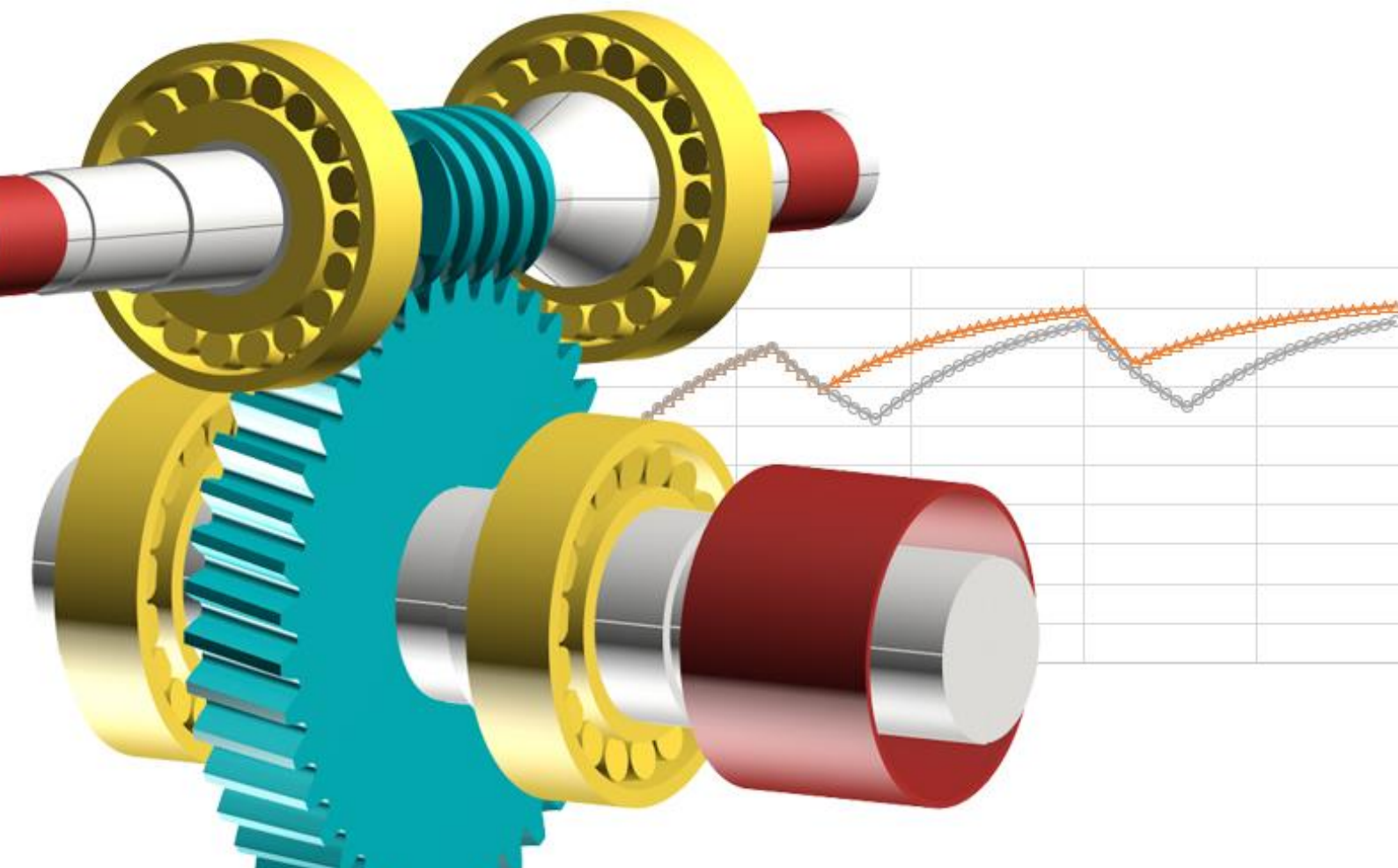
The below schedule is shown in time zone CEST 2:00 pm – 6:00 pm (Brussels)

Session 1:   September 19, 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:   September 20, 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