



Engine Simulation	
Course Number	5674
Hours per week:	2
ECTS:	2
Scheduled:	Winter Term
Format:	Lecture including some computational exercises in German language
Examination:	Oral exam
Lecturer:	Prof. Dr.-Ing. Kai Borgeest
Objectives:	Combustion engines are complex devices where many thermodynamic and mechanic properties cannot be described analytically. The course introduces to the art of engine simulation.
Contents:	Mechanical multibody simulation Mixed mode simulation with Simulink including thermodynamicis CFD (Computational Fluid Dynamics) Select fields of simulation
Pre-requisites:	Engineering Fundamentals
Recommended Reading:	