Simulation Practice with Simulink
(suitable for all Technical Degree Programmes)
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The objective of the class is to learn how to simulate technical systems with Matlab/Simulink. You will be introduced in the simulation technique and the simulation tool very carefully via small demo examples!
So you are well prepared to develop finally an automotive electronic control unit (ECU) for a racing car. The simulated system consists of the physical car model and a gear/clutch-logic for an ECU. From this model we will generate C-Code via Simulink. The generated code will be flashed on a microcontroller board and intensively tested via a dSpace-rapid-prototyping-system. The practical part will take more than 50% of the class.
Preconditions: willingness to get familiar with Matlab/Simulink, basic knowledge of physics and having fun on (virtual) driving.