

# Inverse pendulum

The inverted pendulum is a classic example of an unstable system and not easy to control.

In the lab a model of an inverse pendulum is available. The model consists of a stick mounted on an arm which is attached to a DC-motor via a gearing system.

The topic in this project is to develop a model describing the dynamics of the system and afterwards to design a control system stabilizing the position of the stick in vertical position.

