

The Institute of Applied Dynamics (LTD) is searching for the winter term 2026/2027 several

Student assistants (HiWis) to supervise a laboratory course

The LTD deals with numerical simulation of dynamic systems and offers during the winter term 2026/2027 the laboratory course

Praktikum Technische Dynamik – Modellierung, Simulation und Experiment
Laboratory course Applied Dynamics – Modelling, simulation and experiments

for Master's students of engineering sciences.

As part of your work, you will supervise students one afternoon a week in one of the experiments offered, both in the numerical simulation as well as in the real experiment.

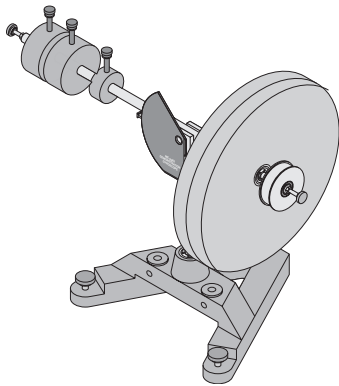
Necessary qualifications

- Technical/Scientific studies (engineering, computer science, physics, mathematics, or similar)
- Programming skills (Matlab or similar)
- Interest in teaching and supervision of students
- Successful completion of lectures on dynamics (e.g. Rigid Body Dynamics or similar)
- Good written & oral English

The workload is approx. 6 h/week. The laboratory course takes place Thursdays between 14:00-18:00 during the lecture period. The position is limited to the semester and will start on 15.10.2026.

If you are interested, please contact simon96.heinrich@fau.de with a short CV and a current transcript of records.

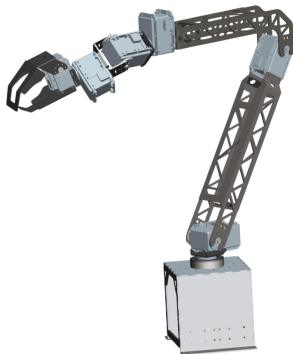
The laboratory course includes the following experiments



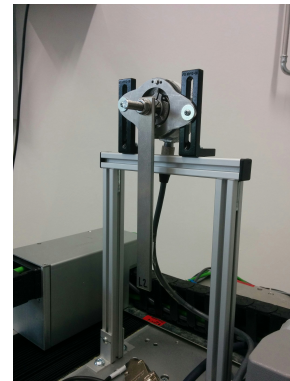
(a) Cardan gyroscope



(b) 2-DOF Ball-Balancer



(c) Six-axis-robot



(d) Inverse Pendulum



(e) Self balancing robot



(f) Beat pendulum