# Homework 2

## [S21] Advanced Robotics

Robot – Tripteron https://www.youtube.com/watch?v=beuY401hfh8

Tasks:

1. Develop VJM model of the robot
    - Links are flexible cylindrical beams, length = 1 m
    - Active joints are flexible
    - Rigid platform – distance from corners to center = 0.1 m
2. Implement VJM model in Matlab or Python [1][2]
3. Create deflection maps for 100N force in X, Y, Z directions

Assumption of other link and joint parameters take from Homework 1, but you should include it in the report.

Requirements:

1. VJM model
2. Code/function explanation
3. Report:
    - Robot design
    - VJM model
    - Deflection map
    - Comparison with MSA
    - Analysis of obtained results
    - Link to your public project on github.com

Submit only report to moodle. Later submission policy -20% per week.

[1] Cheat penalty: 0 for Homework.

[2] It is better to use Google Collab notebook or MATLAB Live Script