

Laboratory of Adaptive Control

specialty: SAAS, semester 1M

Simulation exercises (common topics for all students)

- E1.** Introduction to Matlab-Simulink environment.
- E2.** Parametric identification with Least-Squares method.
- E3.** Parametric identification with Recursive-Least-Squares.
- E4.** Model-Identification Adaptive Control (MIAC) system.
- E5.** Model-Reference Adaptive Control (MRAC) system.
- E6.** Active Disturbance Rejection Control (ADRC) system.

General rules for credits

1. All the students shall perform common simulation exercises E1 to E6 during a semester.
2. Every two-person group has to prepare a concise and clearly written final report from the exercises which shall include description of the control method applied, the obtained results, and constructive comments to the results (note: presentation quality is also very important!).
3. Final grade will be given based upon quality of the obtained results, quality of the final report, and quality of individual answers to meritorious questions asked in relation to the exercises.