

UNIVERSITÄT DUISBURG-ESSEN Lehrstuhl Steuerung, Regelung und Systemdynamik Univ.-Prof. Dr.-Ing. Dirk Söffker



Wintersemester 2025/26

Course	Advanced Control Lab 1 (1P)
	consisting of three experiments:
	 Modellbildung und Simulation (ms) Elektrohydraulisches Servosystem (hs) Inverses Pendel (ip)
Attendance mandatory:	ISE Master Program: Automation and Safety - Safe Systems
	This lab is exclusively for the A+S program students, specification: Safe Systems
URL of the course	https://lehre.moodle.uni-due.de/course/view.php?id=5880
Lecturer	Ph.D. students/scientific co-workers
Coordination	Mazen Zeno, M.Sc., praktikum-srs@uni-due.de
Attestation	In WiSe25/26, the attestation will be realized by an online test in the Moodle course at the university (in presence), no exception possible. Please be aware of the related room announcement. The realization will take place via: - An assignment to the group of admitted participants ACL (prerequisite: registration at the examination office) - Temporally limited execution of the Moodle attestation You have to succeed one central attestation for the experiments in order to participate at the labs. The attestation is only offered at the mentioned date. There is no (!) possibility to change the attestation date or to repeat the attestation in the same term. Resit of this attestation is in the first semester week of the following term. Participation at the labs without a successfully passed attestation is not possible.
Attestation date	November 24th, 2025 8.00 am
	The experiments are held in English language and will take place in the university in presence.
Execution of the labs	The participants are divided into groups and assigned to fixed lab dates. A central date exchange service by the chair can not be provided, but a change-of-dates-forum is arranged in Moodle. The participants are allowed to switch their appointments with another accepted student on their own risk. If the switching party does not participate, the original advised student loses the right to participate. The doctoral candidate conducting the lab has to be informed at the beginning of the experiment about a date's switch. All participants



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	will be checked if their participation is accepted students are not allowed to take part.	d. Not accepted
Report deadline	A semester/lab specific report has to be establic technical/scientific level. The report has to be established by each studies assistance will be provided via the official general of the Chair SRS. We expect a well written technical/scientific Engliss stating that the author/s are familiar with all rewriting, formatting, and scientific discussion. Each submit an individual report. The reports must be submitted to the chair noweeks after the last lab date.	ent individually consulting hours hours the written reportules of scientificant thas to student has to see the second construction of the second constructio
Material	Moodle: Advanced Control and Diagnosis Lab 1 – A	CL1
	(https://lehre.moodle.uni-due.de/course/view.php?	•
	The password can be requested via the e-mail addr srs-pw@uni-due.de . The subject must contain only	
Consulting hours	Wednesday, 8.00 am - 19.30 am, Registration via I	Moodle, MB 326
Registration	The mandatory registration at the examination of realized. ONLY officially registered participants are part in the attestation. A deregistration is only possible via email to pradue.de latest 1 week (full 7 days) before the a Nonappearance leads to the grading fail for all the After participation at the attestation a deregistration practical exercise is not possible.	ktikum-srs@uni attestation date ree experiments
Grading / fail	Your performance will be graded:	
	Criteria	Grade
	- Attestation is successful at the first attempt and - Active participation at the lab and - Lab reports are - Perfect Very good Good Acceptable. - One attestation failed once and successfully passed in the second attempt or - Passed attestations but passive participation at the lab and - Lab reports are - Perfect Very good Good Acceptable. - Two attestations failed, or - Nonappearance/delay or	1,0 1,3 1,7 2,0 2,3 2,7 3,0 3,3 5,0 (failed)



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	- Poor or not submitted lab report. Graded with 5,0 (failed), all experiments and the attestation have to be repeated. Grades will be reported to the examination office like other examination results.
	The experiments have to be completed within one semester. Single labs of earlier terms expire.
	 The pass of the practical exercise is connected with: Attestation: Each participant has to succeed the attestation for the experiments in order to participate at the labs. For each student it is checked whether the requirements for participation in the attestation are fulfilled. The Moodle attestation can only be opened, if all requirements are fulfilled. The lab starts exactly at the announced time. Participants who are not present until 5 minutes after start of the exercise will be graded as being "not present", regardless of reasons. Nonappearance leads to the grading fail for all three experiments. Active participation at the practical experiment. The reports must be submitted on time and be at least
Further information	acceptable. It is recommended to conduct the labs in the proposed order as failed attempts lead to worse grades or failed trials.