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

Wintersemester 2023/24

Course	**Practical Exercise** **System Dynamics und Control Engineering (1P)** consisting of three experiments (Scripts in german language): • Modellbildung und Simulation (ms) (**SoSe**) • Druckregelung (dr) (**SoSe**) • Elektrohydraulisches Servosystem (hs) (**WiSe**)
Attendance mandatory:	Students Mechanical Engineering (ISE) Bachelor
URL of the course	https://moodle.uni-due.de/course/view.php?id=10139
Examiners	Ph.D. students/scientific co-workers
Coordination	Jonathan Liebeton, M.Sc., praktikum-srs@uni-due.de
Attestation	In WiSe23/24, the attestation will be realized by an online test in the Moodle course at the university (in presence), no exception possible. Be aware of the related room announcement. The realization will take place via: - An assignment to the group of admitted participants (prerequisite: registration at the examination office in summer and successful participation at the SD part of the practical exercise) - Temporally limited execution of the Moodle attestation You have to succeed the central attestation for the experiments in System Dynamics (in summer term) and one central attestation for the experiment in Control Engineering (in winter term) 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	**System Dynamics resits (ms/dr):** October 09th, 2023 at 15:00 **Control Engineering (hs):** November 20th, 2023 at 8:00 am
Execution of the labs	The experiment hs is held at the university in presence and in English language. The participants are grouped and assigned to fixed lab dates. A central date exchange service by the chair will 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 will be checked if their participation is accepted. Not accepted students are not allowed to take part.
Lab dates	**System Dynamics resits (ms/dr):** October 16th – October 27th, 2023 **Control Engineering (hs):** December 4th – February 2nd, 2023
Place (Labs)	hs: MB 025
Lab days	Daily
Time	Appointments between 8.00 am - 05.00 pm
Consulting hours	Thursday, 10.00 am - 11.30 am, Registration in Moodle
Material	Moodle: Practical Exercise System Dynamics and Control Engineering – P-SDCE https://moodle.uni-due.de/course/view.php?id=10139 The password can be requested via the e-mail address srs-pw@uni-due.de. The subject must contain only the word **PrSC**.
Registration	The mandatory registration at the examination office was realized in the past summer semester. This registration is valid also for the lab of Control Engineering in the current winter term. An anew registration in the winter term is neither necessary nor possible. ONLY officially registered participants are allowed to take part in the attestation. For participating in the CE part of the P-SD/CE lab DO NOT register in this semester! A deregistration is only possible via email to praktikum-srs@uni-due.de latest 1 week (full 7 days) before the attestation date. Nonappearance leads to the grading fail for all three experiments. After participation at the attestation a deregistration from the entire practical exercise is not possible.
Grading / fail	Your performance will be graded:

Criteria	**Grade**
- All attestations (SDe, CE) were successful at the first attempt **and** - Active participation at the labs.	1,0
- One attestation failed once and successfully passed in the second attempt **or**	3,0

	<table><tr><td>- Passed attestations but passive participation at the lab.</td><td></td></tr><tr><td>- Two attestations failed, **or** - Nonappearance/delay.</td><td>5,0 (failed)</td></tr></table> Graded with 5,0 (failed), all experiments and the attestations have to be repeated. Grades will be reported to the examination office like other examination results. The experiments have to be completed within one calendar year (in the sequence System Dynamics – Control Engineering). Single labs of earlier terms expire. Grades are 1,0 or 3,0, or all experiments have to be repeated completely. The pass of the practical exercise is connected with: 1) Attestation: Each participant has to succeed the attestations for the experiments in order to participate at the labs. 2) 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. 3) For verification of your identity you have to show your Student-ID, or your passport, or your Aufenthaltstitel in the beginning of the labs. If the ID cannot be accepted or is not correct, the student loses the right to participate. 4) Presence: The exercise 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. 5) Active participation at the practical experiment.
Further information	It is strongly recommended to conduct the experiments in the proposed order and terms because failed attempts lead to worse grades or failed trials.