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

Wintersemester 2017/18

Course	**Practical Exercise** **System Dynamics und Control Engineering (1P)** comprising three experiments: • Modellbildung und Simulation (ms) (**WiSe**) • Druckregelung (dr) (**WiSe**) • Elektrohydraulisches Servosystem (hs) (**SoSe**)
Attendance mandatory:	Students Maschinenbau (Bachelor) PO08, Students Mechanical Engineering (ISE) Bachelor PO08
URL of the course	http://www.uni-due.de/srs/v-sd_en-an1-Praktikum.shtml
Dozent/innen	Doctoral candidates
Coordination	Friederike Kögler, praktikum-srs@uni-due.de
Place (labs)	MB 325 (dr), MB 323 (ms), MB 028 (hs)
First date (labs)	December, 4th
Last date (labs)	January, 12th
Time (labs)	Daily, dates between 8.00am-05.00pm
Consulting hours	Thursday, 10.00am - 11.30am, MB 326
Time (Attestation) (SD)	**November 27th, 2017, 11.00am** **(Exact times and seat numbers will be published on our homepage till November 27th , 8am at the latest.)**
Place (Attestation)	Lecture room of german lecture "Systemdynamik" (MC122, MD162)
Scripts and Attestation	Scripts for each experiment are located on the SRS homepage, to be worked through until the attestation date.
Entire practical exercises	All three labs (ms, dr, hs) have to be completed within one calendar year in the sequence System Dynamics-Control Engineering (+resits beginning of the following term). Uncompleted practical exercises will be graded fail. Labs done in former terms expire.

<table>
<tr><td>Attestation</td><td>You have to succeed one central attestation for the two System Dynamics experiments (dr and ms) in order to participate at the two labs. (In summer term one central attestation will be done for the third experiment hs (Control Engineering)). The attestation is only offered at the a.m. date. There is no (!) possibility to change the attestation date or to repeat the attestation in the same term. The 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.</td></tr>
<tr><td>Registration</td><td>The registration for the practical exercise in LSF (Examination office) is mandatory (registration period for examinations, usually in the 5th and 6th week of the term). The registration is valid for the complete duration of the labs (one year). Another registration in summer term is not necessary/possible.

A deregistration via email to Friederike Kögler (praktikum-srs@uni-due.de) is possible until 2 weeks before the experiments‘ date at the latest. Nonappearance leads to the grading fail for all three experiments.</td></tr>
<tr><td>Grouping</td><td>The participants are grouped in teams of 5 students and assigned to fixed lab dates. A central date exchange service by the chair will not be provided. But the participants are allowed to switch their dates 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. Following rough guideline is used for the times of experiments: First the dates for the German spoken course will be implemented. In the last 1-2 weeks of the exercises mainly English spoken labs (ISE) will be conducted.</td></tr>
<tr><td>Grading / fail</td><td>Your performance will be graded:
<table>
<tr><th>Criteria</th><th>Description</th><th>Grade</th></tr>
<tr><td>0 failed attempt</td><td>Both attestations (ms/dr and hs) were successful in the first attempt AND positive participation in the lab.</td><td>1,0</td></tr>
<tr><td>1 failed attempt</td><td>Only one attestation failed once, but was then completed successfully in the first repetition AND positive participation in the lab.</td><td>3,0</td></tr>
<tr><td>2 and more failed attempts</td><td>More than one failed attestation or non-appearance/being late.</td><td>5,0 (failed)</td></tr>
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Grading with 5,0 (failed) all experiments have to be repeated.</td></tr>
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	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: Precondition for the participation at the labs is a successful attestation: One central attestation for System Dynamics (ms and dr) (Winter term), and one central attestation for Control Engineering (hs) (Summer term). 2) Presence: The exercise starts exactly at the announced time. We reserve us the right to refuse participation for participants who are not present until 5 minutes after start of the exercise. 3) Verification of identity: For verification of your identity you have to show your Student-ID. 4) Active participation at the practical experiment.
Further information	**Attention: The labs of System Dynamics (ms and dr) can only be done in winter term; the lab for Control Engineering (hs) can only be done in summer term.** Resits can only be done in the first week of the respectively following term.