

Wintersemester 2020/21

Course	Advanced Control Lab 1 (1P) consisting of three experiments: <ul style="list-style-type: none"> • Modellbildung und Simulation (ms) • Elektrohydraulisches Servosystem (hs) • Inverses Pendel (ip)
Attendance mandatory:	ISE Master Program: Automation and Safety - Safe Systems
URL of the course	https://moodle.uni-due.de/course/view.php?id=23816
Lecturer	Ph.D. students/scientific co-workers
Coordination	Dr.-Ing. Sandra Rothe, praktikum-srs@uni-due.de
Attestation	<p>In WiSe 20/21, the attestation will be realized by an online test in the Moodle course.</p> <p>The realization will take place via:</p> <ul style="list-style-type: none"> - An assignment to the group of admitted participants ACL (prerequisite: registration at the examination office) - Temporally limited execution of the Moodle attestation
Attestation date	December 21st, 2020 Exact times and seat numbers are published in advance in Moodle.
Execution of the labs	<p>The experiments will be partly replaced in by an interactive video in the Moodle course. A passed attestation is the prerequisite to open the video and to participate at the labs. Active participation in the integrated questions of the video and also in presence is a prerequisite for passing.</p>
Lab report	<p>A semester/group specific lab report has to be established on a high technical/scientific level.</p> <p>The report has to be established by each student individually, assistance will be provided via the official general consulting hours of the Chair SRS.</p> <p>We expect a well written technical/scientific English written report, stating that the author/s are familiar with all rules of scientific writing, formatting, and scientific discussion.</p>
Report deadline	The reports must be submitted to the chair not later than 2 weeks after the individual lab date.
Material	<p>Moodle: Advanced Control and Diagnosis Lab 1 – ACL1 (https://moodle.uni-due.de/course/view.php?id=23816)</p> <p>The password can be requested via the e-mail address srs-pw@uni-due.de. The subject must contain only the word ACL.</p>

Consulting hours	Thursday, 10.00 am - 11.30 am, Registration via Moodle								
Attestation	You have to succeed one central attestation for the experiments in order to participate at the labs. The attestations are only offered at the a.m. dates. Participation at the labs without a successfully passed attestation is not possible.								
Registration	<p>The mandatory registration at the examination office <u>has to be realized</u>. ONLY officially registered participants are allowed to take part in the attestation.</p> <p>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.</p>								
Grading / fail	<p>Your performance will be graded:</p> <table border="1" data-bbox="555 907 1402 1630"> <thead> <tr> <th data-bbox="561 916 1246 958">Criteria</th> <th data-bbox="1252 916 1396 958">Grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="561 967 1246 1220"> <ul style="list-style-type: none"> - Attestation is successful at the first attempt and - Active participation at the lab and - Lab report is <ul style="list-style-type: none"> - Perfect. - Very good. - Good. - Acceptable. </td> <td data-bbox="1252 967 1396 1220"> <ul style="list-style-type: none"> 1,0 1,3 1,7 2,0 </td> </tr> <tr> <td data-bbox="561 1229 1246 1518"> <ul style="list-style-type: none"> - One attestation failed once and successfully passed in the second attempt or - Passed attestations but no active participation at the lab and - Lab report is <ul style="list-style-type: none"> - Perfect. - Very good. - Good. - Acceptable. </td> <td data-bbox="1252 1229 1396 1518"> <ul style="list-style-type: none"> 2,3 2,7 3,0 3,3 </td> </tr> <tr> <td data-bbox="561 1527 1246 1621"> <ul style="list-style-type: none"> - Two attestations failed, or - Nonappearance/delay or - Poor or not submitted lab report. </td> <td data-bbox="1252 1527 1396 1621"> <ul style="list-style-type: none"> 5,0 (failed) </td> </tr> </tbody> </table> <p>Grading 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.</p> <p>The experiments have to be completed within one semester. Single labs of earlier terms expire.</p> <p>The pass of the practical exercise is connected with:</p> <ol style="list-style-type: none"> 1) Attestation: Each participant has to succeed the attestation 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 	Criteria	Grade	<ul style="list-style-type: none"> - Attestation is successful at the first attempt and - Active participation at the lab and - Lab report is <ul style="list-style-type: none"> - Perfect. - Very good. - Good. - Acceptable. 	<ul style="list-style-type: none"> 1,0 1,3 1,7 2,0 	<ul style="list-style-type: none"> - One attestation failed once and successfully passed in the second attempt or - Passed attestations but no active participation at the lab and - Lab report is <ul style="list-style-type: none"> - Perfect. - Very good. - Good. - Acceptable. 	<ul style="list-style-type: none"> 2,3 2,7 3,0 3,3 	<ul style="list-style-type: none"> - Two attestations failed, or - Nonappearance/delay or - Poor or not submitted lab report. 	<ul style="list-style-type: none"> 5,0 (failed)
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	<p>fulfilled. The Moodle attestation can only be opened, if all requirements are fulfilled.</p> <ol style="list-style-type: none"> 3) The interactive video for experiments must be watched and the integrated questions must be answered correctly. 4) Certain experiments are conducted at the university: 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. 6) The reports must be submitted on time and be at least acceptable.
<p>Further information</p>	<p>It is recommended to conduct the labs in the proposed order as failed attempts lead to worse grades or failed trials.</p>