

Sommersemester 2024

Course	<p>Advanced Control and Diagnosis Lab 2 (1P)</p> <p>consisting of three experiments:</p> <ul style="list-style-type: none"> • Observer-based Control for a Torsional Oscillator (brt) • Disturbance Estimation in Rotating Machines (de) • Implementation of control and diagnostic routines in Hardware and Software (ICDHS)
Attendance mandatory:	<p>ISE Master Program: Automation and Safety - Safe Systems Mechanical Engineering – Maritime Systems Safety</p>
URL of the course	<p>https://moodle.uni-due.de/course/view.php?id=20855</p>
Examiners	<p>Scientific co-workers and PhD students of the Chair of Dynamics and Control</p>
Coordination	<p>Jonathan Liebeton, praktikum-srs@uni-due.de</p>
Attestation	<p>In SoSe 2024, the attestation will be realized by an Moodle-based online test which will be realized in person in the attestation room in the university.</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	<p>Resit attestation from WiSe23/24: April 08, 2:00 – 2:20 pm Write an e-mail to praktikum-srs@uni-due.de to enroll for participation of Advanced Control and Diagnosis Lab 1.</p> <p>Regular appointment for ACL2 in SoSe24: May 27, 3:00 – 3:20 pm</p>
Execution of the labs	<p>The experiments are held in English language and will take place in the university in presence.</p> <p>The participants are grouped in teams of 4 students 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 will be checked if their participation is accepted. Not accepted students are not allowed to take part.</p>

<p>Lab report</p>	<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 is familiar with all rules of scientific writing, formatting, and scientific discussion. Each student has to submit an individual report.</p> <p>Writing a report without attending the experiments is not possible.</p>						
<p>Report deadline</p>	<p>The reports must be submitted to the Chair not later than 2 weeks after the individual lab date.</p>						
<p>Material</p>	<p>Moodle: Advanced Control and Diagnosis Lab 2 – ACL2 (https://moodle.uni-due.de/course/view.php?id=20855)</p> <p>The password can be requested via the e-mail address srs-pw@uni-due.de. The subject must contain the word ACL.</p>						
<p>Consulting hours</p>	<p>Thursday, 10.00 am - 11.30 am, MB 326</p>						
<p>Attestation</p>	<p>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.</p>						
<p>Registration</p>	<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>						
<p>Grading / fail</p>	<p>Your performance will be graded:</p> <table border="1" data-bbox="555 1574 1396 2042"> <thead> <tr> <th data-bbox="555 1574 1246 1619">Criteria</th> <th data-bbox="1246 1574 1396 1619">Grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="555 1619 1246 1888"> <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="1246 1619 1396 1888" style="text-align: center; vertical-align: middle;"> <p>1,0 1,3 1,7 2,0</p> </td> </tr> <tr> <td data-bbox="555 1888 1246 2042"> <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 </td> <td data-bbox="1246 1888 1396 2042"></td> </tr> </tbody> </table>	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. 	<p>1,0 1,3 1,7 2,0</p>	<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 	
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	<ul style="list-style-type: none"> - Two attestations failed, or - Nonappearance/delay or - Poor or not submitted lab report. 	<p>5,0 (failed)</p>
	<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 fulfilled. The Moodle attestation can only be opened, if all requirements are fulfilled. 3) 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 whole lab. 4) Active participation at the practical experiment. 5) The reports must be submitted on time and be at least acceptable. 	
Further information	<p>It is recommended to conduct the labs in the proposed order as failed attempts lead to worse grades or failed trials.</p>	