

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



Sommersemester 2020

Course	Advanced Control and Diagnosis Lab 2 (1P)
	consisting of three experiments:
	 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	ISE Master Program:
mandatory:	Automation and Safety - Safe Systems
	Mechanical Engineering – Maritime Systems Safety
	https://moodle.uni-due.de/course/view.php?id=20855
URL of the course	Course description from last semester: http://www.uni-due.de/srs/v-acl-an1-Praktikum.shtml
Lecturer	Ph.D. students
Coordination	DrIng. Sandra Rothe, praktikum-srs@uni-due.de
Attestation	In SoSe 2020, the attestation will be realized by an online test in the Moodle course. 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
Attestation date	Resits from WiSe19/20: Write an e-mail to praktikum-srs@uni-due.de to enroll for participation of Advanced Control and Diagnosis Lab 1. Regular appointment for ACL2 in SoSe20: Due to the postponement of the registration phase at the examination office, the ACL2 attestation date will be postponed. Please register at the examination office to participate. New date: July 6, 2020 4:30 pm - 4:50 pm
Execution of the labs	The experiments will be replaced in SoSe 2020 by an interactive video in the Moodle course. A passed attestation is the prerequisite to open the video. For certain experiments, a document must be uploaded before participation in order to demonstrate preparation. Active participation in the integrated questions is a prerequisite for passing.
Lab report	A semester/group specific lab report has to be established on a high technical/scientific level. The report has to be established by the students, assistance will be provided via the official general consulting hours of the Chair SRS.



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Report deadline	We expect a well written technical/scientific English report, stating that the author/s are familiar with a scientific writing, formatting, and scientific discussion will be given in three classes leading in combination other grades to the below mentioned overall rating. The reports must be submitted to the chair not than 2 weeks after the individual lab date.	Il rules of on. Grades with the .
Material	Moodle: Advanced Control and Diagnosis Lab - ACL (https://moodle.uni-due.de/course/view.php?id=20 The password can be requested via the e-mail address-pw@uni-due.de. The subject must contain the view of the view of the contain the view of the v	<u>)855)</u> ress
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. Part the labs without a successfully passed attestation is possible.	ticipation at
Registration	The mandatory registration at the examination office	



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	 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 interactive video for each experiment must be watched and the integrated questions must be answered correctly. For certain experiments, a file with solutions to previously defined tasks must be uploaded in advance.
	 The reports must be submitted on time and be at least acceptable.
Further information	It is recommended to conduct the labs in the proposed order as failed attempts lead to worse grades or failed trials.