

Wintersemester 2025/26

Course	Seminar Safe Systems (6S)
Attendance mandatory:	ISE Master Program: Automation and Safety - Safe Systems (Participation is only possible for this of this program!)
URL of the course	<a href="https://lehre.moodle.uni-due.de/course/view.php?id=4441">https://lehre.moodle.uni-due.de/course/view.php?id=4441</a>
Lecturer	Söffker, coworkers, PhD students of Chair SRS Automation and Safety – Safe Systems program
Description	<p>In the context of this seminar concrete theoretical and practical tasks will be analyzed (depending on the task), evaluated, simulated, and applied in practice. These are tasks set up by the lecturers of the compulsory subjects of the profile and are specifically oriented towards the orientation of the program. Also possible to be integrated are challenging current issues that need to be solved within industrial cooperations. Each seminar includes questions in the context of automation technology, safety, reliability engineering, diagnosis, or prognosis in different methodical or application-practical fields of engineering.</p> <p><b>BE AWARE: This is a 10 ECTS course, participation and cooperation (in the group) is required. If students have no time and/or are not willing to work in this semester on this topic ... postpone the course until you have time and/or are ready to fully commit to it.</b></p>
Procedure	<ul style="list-style-type: none"> <li>• Introductory event and topic selection (Kick-off meeting)</li> <li>• Working in small groups of students (2-4 persons) with weekly meetings/supervision (approx. 10 weeks)</li> <li>• Students take over different roles within their group</li> <li>• Cooperative but distinguishable work</li> <li>• Joint presentation</li> <li>• Outcome to be provided by the students: <ul style="list-style-type: none"> <li>• Written final report</li> <li>• Final presentation (15 min, discussion contributions)</li> <li>• Weekly group presentation</li> <li>• Seminar specific solution (program, analysis, ...)</li> <li>• For literature research: at least 12 relevant sources for programming: including complete source code</li> </ul> </li> </ul>
First appointment	<p><b>3rd week of the lecture period, winter term 2025/26: week 43</b></p> <p>Appointment details will be provided via Moodle, in time registration is required</p>
Report deadline	Last week of the lecture period

<b>Grading/Fail</b>	The evaluation is based on the seminar work (written report containing programming work, literature research, etc.) and its presentation. A missing report or presentation, uncomplete programs etc. will lead to an overall grade of "failed".
<b>Material</b>	<p>Moodle: Seminar Safe Systems – S-SaSy (<a href="https://lehre.moodle.uni-due.de/course/view.php?id=4441">https://lehre.moodle.uni-due.de/course/view.php?id=4441</a>)</p> <p>The password can be requested via the e-mail address <a href="mailto:srs-pw@uni-due.de">srs-pw@uni-due.de</a>.</p> <p>The subject must contain only the word <b>SaSy</b>.</p>
<b>Consulting hours</b>	Problems and questions will be discussed during the weekly meetings with the supervisor and/or the monthly meeting with Prof. Söffker.