

<b>Course Title:</b>	<b>WinCC Unified SCADA</b>
<b>Institute/Division:</b>	Department of Automation and Computer Engineering Faculty of Electrical and Computer Engineering
<b>Course code:</b>	<b>E-WUS</b>
<b>Erasmus subject code:</b>	0613 Software and applications development and analysis
<b>Number of contact hours:</b>	45
<b>Course duration:</b>	1 semester (Fall/Winter)
<b>ECTS credits:</b>	6
<b>Course description:</b>	<p>The course consists of lectures, laboratory exercises, and two small projects. Students will learn how to build small SCADA systems.</p> <p>Basic instructions for visualization pages. Navigation between pages. Objects and their animation. Pop-up screens. Faceplates. Discrete and analogs alarms and their histories. Trends and data logging. SQL database, data archiving. Recipes. JavaScript: fast introduction and usage. Own JavaScript controls. Users and groups of users. Multi-languages. Reports: csv and Excel.</p> <p>Intended platform and software: PC, Siemens controllers simulator and TIA PORTAL.</p>
<b>Course type:</b>	Lectures (9h), Laboratory (27h), Project (9h)
<b>Literature:</b>	<p>McCrary S.G.: Designing SCADA application software: a practical approach Almadhoun A.S.: PLC SCADA for Beginners: Understanding and Implementing Industrial Automation Systems, Appress 2025 WinCC Unified: Manual, Installation and Updates - ID: 109961592 - Industry Support Siemens (<a href="https://support.industry.siemens.com/cs/document/109961592/wincc-unified-manual-installation-and-updates">https://support.industry.siemens.com/cs/document/109961592/wincc-unified-manual-installation-and-updates</a>)</p>
<b>Assessment method:</b>	Laboratory exercises and project
<b>Prerequisites:</b>	-
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