

Module title	Programmable Systems on Chip (PSoC)
Module number	WP.2
Study programme	Informationssystemtechnik, Elektrotechnik und Kommunikationstechnik
Applicability of the module to other study programmes	Elektrotechnik und Kommunikationstechnik, Informationssystemtechnik
Duration of the module	1 semester
Status of the module	Elective module
Recommended semester during the study programme	4 or 5
Credit points (Cp) of the module	5
Prerequisites for module participation	None
Prerequisites for module examination	Laboratory attestation: written report per laboratory task, total workload 15 h
Module examination	Written report for final project (time limit 4 weeks)
Intended learning outcomes /acquired competences of the module	<p>Students are able to work with a PSoC. They can successfully use the concept of building blocks architecture like timers, PWMs, GPIO, ADCs and handle with LCD.</p> <p>The students acquire skills in teamwork, project and time management, leading negotiations, self assurance and are prepared for methodical work and presentations techniques.</p>
Contents of the module	Lectures in PSoC and laboratory training
Teaching methods of the module	Seminaristischer Unterricht mit integrierten Übungen und Labor
Total workload	150 h
Language of the module	English
Frequency of the module	Das Angebot an Wahlpflichtmodulen wird vom Fachbereichsrat am Ende eines jeden Semesters für das folgende Semester festgelegt.