

Module title	DSP problem solving using MatLab
Module number	WP.1
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 for every laboratory project, total workload 15 h
Module examination	Written report for final project (time limit 4 weeks)
Intended learning outcomes /acquired competences of the module	Students are able to use the software tool Matlab.They can successfully apply it to topics of filter development, Spectrum analysis and noise suppression in the field of LTI systems. The students acquire skills in teamwork, project and time management, leading negotiations, self assurance and are prepared for methodical work and presentations techniques.
Contents of the module	Lecture combined with exercises and laboratory MatLab Lecture DSP problem solving using Matlab
Teaching methods of the module	Lecture combined with exercises and laboratory work
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.