

Electrical Engineering and Information Technology (EN)

Module Overview

SPO Version 4

Foundation studies		Main studies				
1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester
5 ECTS Mathematics I	5 ECTS Mathematics II	5 ECTS Mathematics III	30 ECTS Industrial Internship Seminar	5 ECTS Control Systems	6 ECTS Communication Systems	12 ECTS Bachelor's Thesis
5 ECTS Business Administration	5 ECTS Physics – Concepts and Methods	5 ECTS Signals and Systems		5 ECTS Lab Project (DE)	10 ECTS Engineering Project	
5 ECTS Electrical Engineering	5 ECTS Electrical Engineering and Electronics	5 ECTS Modern Semiconductors		5 ECTS Elective HTWG		
5 ECTS Programming	5 ECTS Software Engineering and Object Oriented Programming	5 ECTS Microprocessor Systems		25 ECTS Elective		8 ECTS Social Skills and Cross-Curricular Learning
5 ECTS Engineering and Sustainability	5 ECTS Digital Systems	5 ECTS Introduction to Machine Learning				
5 ECTS Hands on Experience	5 ECTS Interdisziplinary Lab Electrical Engineering – Physics	5 ECTS Mikroprocessor Systems				
PROJECT BASED LEARNING				15 ECTS Specialization Modules: – Electrical and Electronic Systems – Information Technologies and AI – Sustainable Energy Systems		

Legend

Compulsory subject

Elective subjects + Specializations

Internship

Bachelor Thesis

ECTS Credit Points / European Credit Transfer System