

Smart Mobility Systems (EN)

Module Overview

SPO Version 1

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 Autonomous Mobility	12 ECTS Bachelor's Thesis
5 ECTS Business Administration	5 ECTS Physics – Concepts and Methods	5 ECTS Digital Systems		5 ECTS Communication Systems	5 ECTS Networked Vehicles	
5 ECTS Electrical Engineering	5 ECTS EElectrical Engineering and Electronics	5 ECTS Signals and Systems		5 ECTS 3D Computer Vision	5 ECTS Electric Drives	
5 ECTS Programming	5 ECTS Software Engineering and Object Oriented Programming	5 ECTS Introduction to Machine Learning		5 ECTS Lab Project (DE)	10 ECTS Engineering Project	8 ECTS Social Skills and Cross-Curricular Learning
5 ECTS Hands on Experience	5 ECTS Interdisziplinary Lab Electrical Engineering – Physics	5 ECTS Mikroprocessor Systems		20 ECTS Elective		
PROJECT BASED LEARNING						
5 ECTS Engineering and Sustainable Mobility	5 ECTS Sensor Technology	5 ECTS Algorithm and Data Structures		5 ECTS Elective HTWG		
ADVANCED MOBILITY						

Legend

Compulsory subject

Elective subjects + Specializations

Internship

Bachelor Thesis

ECTS

Credit Points / European Credit Transfer System