Curriculum

Carinthia University of Applied Sciences
Hochschule Kärnten

Systems Design

Power Electronic Systems (PES)

1. Semester	ECTS
Engineering Mathematics	5
Electronics Engineering	5
Dynamic Systems	5
Academic & Professional Skills for Engineering	5
Computational Engineering	5
Physics	5
Total	30

2. Semester	ECTS
Power Electronic Devices	5
Electrical Drives	5
Power Electronics Fundamentals	5
Design of Electronic Systems 1	5
AI and Applications in Power Electronic Systems	5
Control Systems and Applications in Power Electronics	5
Total	30

3. Semester	ECTS
Advanced Power electronics	5
Power Electronic Topologies & Applications	5
Converter Dynamics and Control	5
Smart Power Electronics	5
Design of Electronic Systems 2	5
Research Internship	5
Total	30

4. Semester	ECTS
Master Thesis + Seminar	25
Master Exam	3
Research Skills International	2
Total	30

Total Sum	120

ECTS = European Credit Transfer System