

Curriculum

Industrial Power Electronics

Master | work-friendly

1 st Semester	ECTS
Physics of Electronic Devices	5
Advanced Engineering Mathematics	5
Power Electronic Concepts & Circuits	5
PE Measurement & Sensing Concepts	5
Power Electronics Laboratory I - Basics	5
Academic Skills	5
Total	30

3 rd Semester	ECTS
Advanced Topics in Industrial Applications	5
Electromagnetic Interference in Power Electronics	5
Smart Power Electronics	5
Design of Power Electronic Systems II	5
Management Skills	5
Analog & Digital Controller Design	5
Total	30

2 nd Semester	ECTS
PE Topologies & Applications	5
Industrial Drives & E-Mobility	5
Power Devices and Technology	5
Design of Power Electronic Systems I	5
Power Electronics Laboratory II - Adv.	5
Converter Dynamics and Control	5
Total	30

4 th Semester	ECTS
Master Thesis	25
Master Thesis Seminar	2
Master Exam	3
Total	30
Total Sum	120

ECTS = European Credit Transfer System