

The Dept. Power Electronics and Control is a part of the Institute of Energy and Control Engineering. This institute is integrated into the Faculty of Electrical Engineering and Information Technology. The department has a successful tradition in research fields like power semiconductor application, electrical drive engineering and power system control technology. Industrial projects are carried out in effective collaboration with the company ISLE.

Key Research Fields & Competence Areas:

- Ø Power Semiconductor Devices Characterisation and Application
- Ø Power Converter Circuit Design and System Simulation
- Ø SMPS-Design / Magnetics Design
- Ø Electrical Drives Control (SM, ASM, SRM, DC-Brushless)
- Ø Electronic Systems for Automotive Applications / EMI
- Ø µC/DSP/PLD Circuit Design and Software Development

Institute Highlights:

- Ø About 30 grad. Engineers in Dept. + ISLE
- Ø Powerful Lab-Facilities
- Ø More than 50 industry partners
- Ø Own Publishing
- Ø Presentations at Leading Conferences
- Ø 2 Spin-offs with 100 staff

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