



## MASTER IN EMBEDDED COMPUTING SYSTEMS (EMECS) - EUROPEAN MASTER PROGRAM -

The department of Electrical & Computer Engineering at the University of Kaiserslautern offers an Erasmus Mundus European Master's program in Embedded Computing Systems starting in fall 2010.

**Erasmus Mundus II** is the flagship of the European excellence programs in university education. Selected Master programs receive substantial funding from the European Commission (EC) and, thus, are able to offer scholarships to their students. With its decision to select this program (it is the only new course in 2009 under German coordination) the EC rewards the high visibility of the University of Kaiserslautern and its partners in the European Networks of Excellence HiPeak and ARTIST, as well as in numerous national and international research projects related to embedded systems.

Kaiserslautern will coordinate a consortium with the University of Southampton (UK) and the Norwegian University of Science and Technology (NTNU).

### Program Description:

EMECS is a two-years Master's Course (120 ECTS credits) that can be pursued at any two of the participating institutions. Students will earn 50% of the credits at each institution leading to a joint degree from the respective institutions. The language of instruction is English.

The European Master's Course in Embedded Computing Systems (EMECS) is designed to educate Bachelor graduates from Electrical & Computer Engineering and Computer Science as well as graduates from related disciplines to become experts in the field of Embedded Computing Systems. Students participating in this programme will be trained in three major areas:

- Hardware architectures of embedded systems
- System-on-chip design
- System software

These areas constitute the "Core Programme" of EMECS and will be taught during the first year of study at each institution. Completion of the core programme (45 ECTS credits) will ensure the mobility of the students after the first year of study. The "Elective Programme" (45 ECTS credits) provides training in specialized topics of embedded system design and provides the background in typical application areas like communication systems, automation & control and microsystems. The elective programme reflects the individual strengths of the participating institutions. The course is completed with a Master's Thesis (30 ECTS credits) which typically contributes to a larger project conducted jointly with industry.

As a novelty in Erasmus Mundus II scholarships can be granted to applicants from both EU and non-EU countries.

### Application Deadline for the first intake:

January 15, 2010

### Detailed information:

EMECS-Website: <http://mundus.eit.uni-kl.de/>

Website of the International School for Graduate Studies (ISGS): [www.uni-kl.de/isgs](http://www.uni-kl.de/isgs)