

Title of the Masters Course:

EU4M - European Union Master's Course in Mechatronic and Micro-mechatronic Systems

Duration: 2 years

Course description:

Mechatronic and also Micro-Mechatronic Systems cover the development and also the maintenance of systems which consist of a very high level of complexity (cars, airplanes, space laboratories, micro-laboratories, mobile communication systems, self adaptive systems and robotics).

Important elements of our higher education with 120 credit points according to ECTS:

Scientific work related to current research plans including enabling design, modelling and simulation

Professional Qualification:

interdisciplinary co-operation in groups with the aim of solving complex mechatronic tasks

Management Qualification:

ability to adapt quickly to various tasks and problems from various fields of engineering

Adaptability and Flexibility:

ability to communicate easily with people from different countries in different languages

Qualification in Intercultural Communication:

because of intensive co-operations with industry of each member of EU4M-Consortium

Guarantee of the High Quality Of Education

Languages used in lectures are the local languages French and/or German and/or Spanish.

Language learning and integration into the society is supported by our TandemPlusSystem, where each third country student will work together with one local/european student and his mentor, a local professor. During the first year at each institution of EU4M-Consortium identical lessons are given to bring the students up to the same level of knowledge. The second year has to be studied at one of the two other institutions; each of the 3 institutions offers his specialisations in the field and applications of mechatronic and micro-mechatronic systems. Theoretical lessons are given in combination with practical trainees in co-operation with industry and research centers. There will be an approximate supervision ratio of students by professors of 1.

Mobility arrangements between

Universidad de Oviedo, Oviedo (E) www.uniovi.es , Hochschule Karlsruhe (D) www.hs-karlsruhe.de ,

ENSMM - Besancon (F) www.ens2m.fr depending on the language skills and the aims of their specialisation.

Thirty credit points are awarded for the Master's Thesis and the final examination.

European and third-country students apply directly to the Co-ordinator of the EU4M-Consortium at the HSKA – Karlsruhe; e-mail: eu4m-consortium@hs-karlsruhe.de . We will grant an admission in winter semester 2008/2009 of 18 third-country students and 12 European students. All applications are examined by the admission and graduation committee. A very good first degree, which is at least equivalent to a three-year bachelor qualification in the areas of mechanical and electrical engineering, industrial engineering or science, is a prerequisite for this program. It is mandatory that students certificate two language skills (French and/or German and/or Spanish) through an appropriately recognized certificate i. e. the TOEFL/TOEIC certificate of at least 450 points or the level B1 Threshold of the Common European Framework.

Website:

www.eu4m.eu

Partners:

Karlsruhe University of Applied Sciences, Germany (Co-ordinating Institution)
National Engineering Institute in Mechanics and Micro-Technologies, France
University of Oviedo, Spain

Contact:

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Grants:

852 000 €(15 000 €consortium + 837 000 €scholarships), 2008