

VIBOT ERASMUS MUNDUS MASTERS IN VISION AND ROBOTICS

Duration: 2 years

Course description:

The master course aims to provide qualifications for entry into the professions in the area of robotics, computer vision, image processing and medical imaging either in public laboratory or private research company. Over 4 semesters (120 ECTS), the students attend three universities, where all the classes will be taught in English. An introduction to Scottish, Spanish and French culture and language will be proposed to the students. The student population will be between 30 and 40 per year. The average ratio professor/student relation is approximately 1:5.

VIBOT students are required to cover the areas of studies below, over the total of 120 ECTS:

- Basis of signal and image processing: software, hardware;
- Tools and methods of computer vision: compression, segmentation, real-time, shape recognition, 3D vision, etc;
- Robotics: fundamentals, control and programming for robot autonomy and intelligence;
- Medical imaging: biologic basis, infrared imagery, X-Ray and ultrasound imagery;
- Research training period or a vocational training period.

Each university articulates its offer of courses on the basis of its own approach, in such a way that the students can benefit from different cultural and scholarly flavours.

The first three semesters will successively occur in:

- FRANCE: University of Burgundy (antenna of Le Creusot) [UB]
- SPAIN: University of Girona [UdG]
- UNITED KINGDOM: Heriot-Watt University [HW]

Classes will be taught by eminent researchers from the three laboratories: SIG/OSL at Heriot- Watt, VICOROB at Girona, Le2i at Le Creusot. The last semester which can be a practical experience to research will take place in one of the laboratories of the university members of the consortium for the non-European students and in laboratories of a Third-country university partner for the European students. An another choice for the four semester is to do a vocational training period in an European company for the non-European students and in a company in the country of the Third-country university partner for the European students.

The European Master is awarded by Burgundy, HW and Girona Universities, and countersigned by the Consortium's director. A joint degree and a diploma supplement are delivered to the students.

Website: <http://www.vibot.org>

Partners:

UNIVERSITY OF BURGUNDY, France (Co-ordinating Institution)
UNIVERSITY OF GIRONA, Spain
HERIOT-WATT UNIVERSITY, United Kingdom

Contact:

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Maximum grant:

622 800 € (30 000 € consortium + 592 800 € scholarships), 2011
630 800 € (30 000 € consortium + 600 800 € scholarships), 2012
568 400 € (30 000 € consortium + 538 400 € scholarships), 2013