

ELECTRONICS, ROBOTICS and INDUSTRIAL INFORMATICS ENGINEERING



Key Words

Electronics, Microelectronics, Robotics, Industrial Informatics, Embedded electronic systems, Computer science & engineering, Architecture, Integrated circuit and system design and test, Microprocessors and microcontrollers, Automatic control systems, Process control, Local networks, Signal and image processing, Artificial vision.

Objectives

The graduate engineer possesses recognised multidisciplinary skills in electronics, microelectronics, computing, industrial informatics, control systems and robotics.

The general courses during the first three semesters (5 to 7) aim to provide the future engineers with a strong grounding in all fields that will enable them to quickly adapt to the fast evolution of technology and to the requirements of industry. The specialised courses taught during the following semesters refine their skills in the following sectors: integrated circuit design, embedded system development, automation, computer systems and industrial networks, industrial process control and robot control.

Employment sectors

Big electronics and microelectronics companies, automobile, aviation and space industries, national and regional SMEs, engineering companies...

Industrial Partnerships

Industrial partners are constantly involved in curriculum definition, in offering work placements, in defining industrial projects and presenting specialised lectures.

Industrial placements :

- third year (1 to 2 months)
- fourth year (2 to 3 months)
- fifth year (5 months minimum)

Projects

Throughout the three year program: both in research laboratories and in industry.

These compulsory industrial placements and projects provide the students with the practical knowledge and know-how of the professional environment, as they put the students in real life technical situations.

They are carried out in regional, national and international companies and are directly linked to the potential job market, both at home and abroad.

Research Partnerships

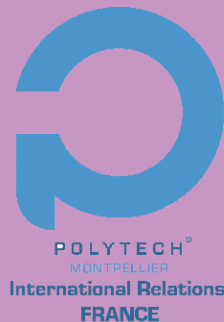
Students are taught by academics and lecturers who also carry out research activities in the laboratories of the University of Science (Montpellier 2), in collaboration with other national research institutes (CNRS, INRA, CIRAD, IRD, IFREMER, CEMAGREF...), as well as by specialists from industry. Some of the research activities developed by the laboratories associated to the school are also carried out in collaboration with industrial companies through industrial contracts or national grants (ANR, Competitiveness clusters, Oseo-Anvar...) or European projects.

Consequently, students are taught advanced state of the art industrial technology. They may then work directly in Research and Development Departments, or enrol in PhD studies in the field of electrical engineering (Electronics, Robotics, Industrial Informatics).

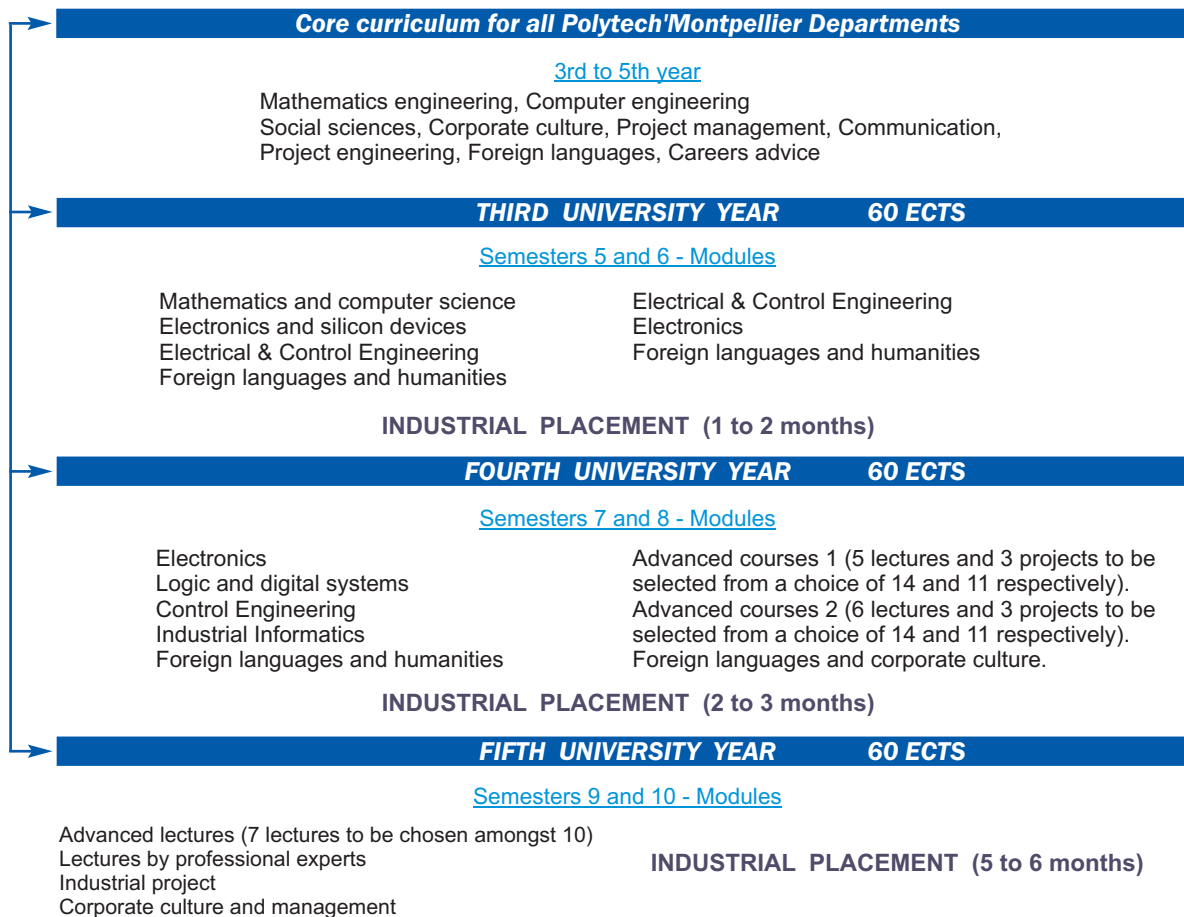
The Department has developed privileged relationships with regional and national technology transfer centres.

Academic Partnerships

Polytech Montpellier – UM2, France, has well-established agreements with several European and non-European universities. In particular, a double degree programme is available with the University of Cranfield, UK, with the University of Sherbrooke, Canada and with the Politecnico di Torino, Italy.



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It is also possible to specialise in one of our sister schools in the Polytech'network or in another engineering school in France or abroad.

POLYTECH' MONTPELLIER also offers to foreign students who don't speak French the chance to study in their MUNDUS PROGRAMME.

This is a special programme that enables foreign students who already have Master's level in their country of origin to come and spend a year learning intensive French and also specialised scientific subjects according to their choice of Speciality (Major). Upon successful completion of this year, they can join Years 4 and 5, and go on to obtain the prestigious French Engineering qualification.

For more details of this **MUNDUS PROGRAMME**, please contact us at the International Relations office : relint@polytech.univ-montp2.fr

