

MECHANICAL ENGINEERING & INTERACTION



Key Words

Mechanics of continuous media, structural design, simulation of coupled mechanical systems, computer-aided design, mechatronics, design and control of robots, biomechanical system design, biocompatible system.

Objectives

The graduate engineer has the expertise to deal with the mechanical engineering sector. He/she is fully competent in the development of multifunctional mechanical system design. He/she masters the modern tools of scientific computation and optimization. The course particularly focuses on the integration of multiphysical coupled mechanisms in the integrated design process. Two industrial application fields are targeted : mechatronics and biomechanical systems.

Employment Sectors

All types of national and international mechanical industries related to building engineering, transportation, space, energy, robotics, and biomechanics. Research and development departments, production sectors. Local and national government agencies. Specialised private research institutes...

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 (3 months)
- fifth year (5 to 6 months)

Projects :

Throughout the three year programme : 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 industries and are directly linked to the potential job market.

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, INSERM, regional CHUs). Some of these research activities are 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.

The M&I department works to regularly strengthen privileged relationships with regional and national technology transfer centres.

Academic Partnerships

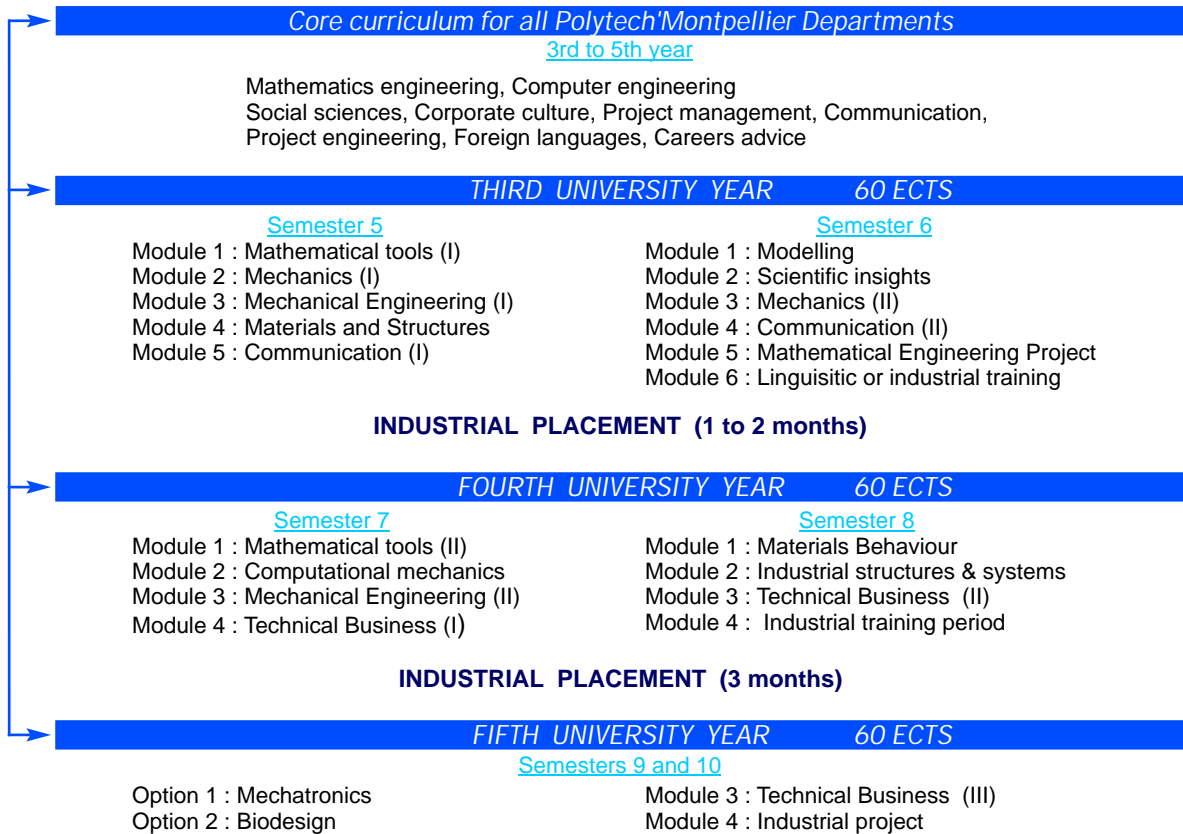
Polytech Montpellier – UM2, France, has well-established agreements with several European and non-European universities.



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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.

INDUSTRIAL PLACEMENT (5 to 6 months)

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



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