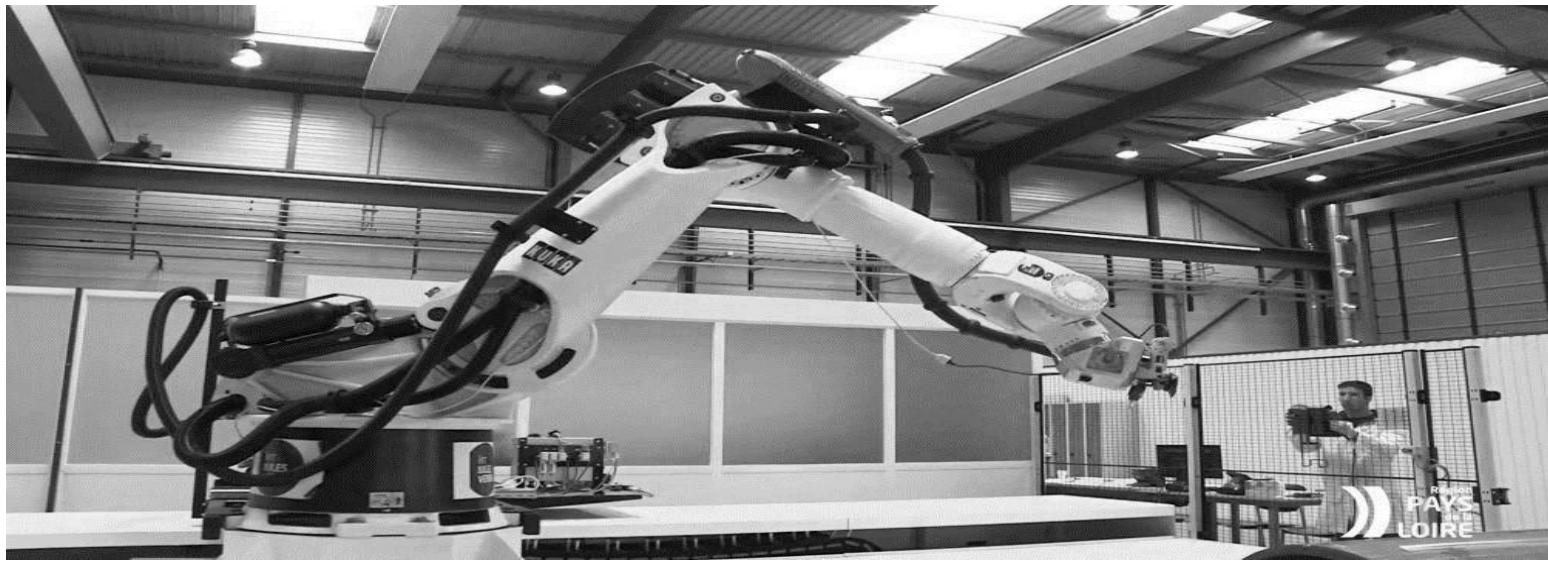


Branch: Mechanical Engineering



Code: MECROB

Option: Mechatronics and robotics

Level: Master

Prerequisites:

Opportunities:

As a graduate, prospects open up in areas such as automotive engineering, production engineering, automation technology and medical technology.

In addition, you will have interesting career opportunities in the following areas: At universities and research institutes, with public authorities, in the service sector.

Have you developed a business idea during your studies and would you like to start a company? We will also support you in this process!

Description:

For border crossers! Do you want to develop intelligent and digital networked systems as well as intelligent and sophisticated robotic systems? Do you like the interdisciplinary nature of mechanical, computer and electrical engineering? Then you will become a sought-after specialist with us.

What does this degree program consist of?

The objective of the Master's program in Mechatronics and Robotics is to train specialists and experts at the interface between mechanical engineering, information technology and electrical engineering. You will be trained to think

and work across disciplines and will therefore be able to link mechanical, electronic and computer components design robotic systems and further the development of smart objects and the internet of things.

Quality and competences:

Graduates of this application- and research-oriented Master's program are well prepared to meet the challenges of the interdisciplinary fields of mechatronics and robotics, which lie at the border between mechanical engineering, electrical engineering and information technology.

They acquire the necessary methods to deal with Mechatronic systems and are able to network the different specialized fields of Mechatronics.

They are familiar with methods of the whole control engineering, such as state space methods or methods for modelling control systems.

You are able to develop methods for Mechatronic systems on the basis of dynamics, computer science and electrical engineering.

If desired, you also have the possibility to deepen certain subjects and to acquire additional knowledge in the field of electrical engineering and/or computer science, e.g. in image processing for an in-depth specialization in robotics.

As a graduate you will be able to network the specialized knowledge of the involved disciplines and to consider a Mechatronic system from all the above mentioned points of view.