



TELECOMMUNICATIONS  
ENGINEERING  
COMPUTER  
ENGINEERING  
MECHATRONICS  
ENGINEERING  
APPLIED INDUSTRIAL  
ENGINEERING  
MATHEMATICS  
ENGINEERING  
BUSINESS FINANCIAL  
ENGINEERING STRATEGY

**ITam**

ADMINISTRATION  
MECHANICAL  
ELECTRICAL  
ELECTRONICS  
TELECOMMUNICATIONS

# THE BEST EDUCATION

## The tools that will guide you on your way

By studying ITAM's undergraduate program in Mechatronics Engineering, you will become a professional with a comprehensive practical and multidisciplinary knowledge, able to integrate and develop automated systems using the technology of mechatronics systems.

Studying robotic systems is an integral part of our program, thus you will master their function. The main role of a mechatronics engineer is industrial automation, the construction of devices and intelligent machines as well as the innovation of cutting-edge designs.

Our goal is to train professionals capable of understanding current technologies and incorporating the new ones in order to solve engineering problems bordering other fields (Mechanical Engineering, Electronic Engineering, Computer Science, and Information Technology).

Upon completing your degree, you will be able to

- Integrate tools and mechatronics machines in the industry, e.g., robots, industrial computers, and CNC machines.
- Develop solutions for the innovation and improvement of control systems as well as the automation of industrial processes.
- Design and implement robotic systems along with elements of artificial intelligence and computer vision.
- Manage teamwork for the development of multidisciplinary projects.
- Manage infrastructure.

In our laboratories, you will not only be able to put into practice your acquired knowledge, but you will also be able to create your own designs, build them, and participate in both national and international contests. We have the following laboratories at your disposal:

- Assisted computer design
- Programming of industrial robots
- Automation and control
- Electronics and microcontroller programming
- And 8 more laboratories

Moreover, ITAM has agreements with high-tech companies, e.g., Siemens and General Motors, thus giving you access to software and hardware of industrial use, and through the PACE program (Partners for the Advancement of Collaborative Engineering Education), you will be able to do internships at General Motors.

If you wish, you also have the option to pursue two undergraduate programs concurrently, thereby obtaining two professional degrees by only studying a few extra semesters. Furthermore, you also have the opportunity to take some courses abroad thanks to ITAM's Exchange Program, which has 120 agreements with the world's best universities.



# EXCELLENCE

## The professors that will guide you on your career path

ITAM has a prestigious full-time faculty the majority of which hold PhD degrees and approximately 30% are members of National System of Researchers. ITAM's professors not only work on research projects, original and applied, but also in consulting for companies. Moreover, some professors have published books that serve as textbooks in ITAM's courses as well as in other Mexican universities.

ITAM is dedicated to providing its students the best preparation in their specialization areas. Thus, the students are given personal attention by both faculty and staff, who are devoted to their academic needs.

# EXPERIENCE

## Resources offered by ITAM

Our university offers the services and facilities to optimize your personal and academic development.

### Student Life

Reflecting our institutional values, ITAM supports serious and committed student publications and activities.

### Financial Aid

ITAM is committed to providing a vast program of academic scholarships and grants, complemented by a loan program. Find the best option for you at [www.becas.itam.mx](http://www.becas.itam.mx)



## Library

You will have access to a comfortable and modern library providing the necessary bibliographical support to accomplish your work: millions of journal articles, newspapers and books from online sources, access to the most important academic databases, course textbooks, and a collection of approximately 400,000 printed materials, among other services. [www.biblioteca.itam.mx](http://www.biblioteca.itam.mx)

## Technology

You will have the necessary technological infrastructure to better accomplish your studies: Internet, Wi-Fi, computer rooms, and access to the world's best information systems.

## Social Commitment

ITAM is fully aware of its commitment to society and as such it is an active participant in community help programs. [www.compromiso.itam.mx](http://www.compromiso.itam.mx)

Our community also supports our stellar students so that they can finish their studies. [www.donar.itam.mx](http://www.donar.itam.mx)

## Sports

ITAM organizes and promotes sport events by consulting and providing training in the various sports that our students desire to participate in. You will have at your disposal the following sport facilities: indoor soccer, basketball and volleyball courts, a gym with weightlifting and cardio equipment, showers, lockers, as well as a multi-purpose room where aerobics, dance, and yoga classes are held. ITAM has indoor soccer, football, rugby, and basketball teams. [www.deportes.itam.mx](http://www.deportes.itam.mx)



# ACHIEVEMENT

## The fulfillment of your professional goals

Currently, robotics and mechatronics systems are the foundations of the Mexican manufacturing industry. These resources should be programmed and adapted to the industrial environment in the manufacturing cells. The ITAM graduate from the mechatronics engineering program will develop the knowledge and the skills to perform these tasks effectively, and, therefore, will contribute significantly to the creation and evolution of robotic companies allowing them to increase their productivity, improve the quality of their products, and reduce their production costs, through the automation of their systems and the integration of technology.

Our graduates have been successful in

- Automated manufacture and robotics
- The processing industry (cement, plastic, iron, glass, refineries.)
- The automobile industry
- Food processing industry (bottlers, processors, packers, etc.)
- The pharmaceutical and biomedical industries
- Research and development centers
- Business Consulting

ITAM has a job placement office assisting mechatronics engineer graduates and students in their last semesters to effectively venture into the job market in their fields. Approximately 60% of the students have a job before completing their degree and 33% find a job in the first six months after completing their degree. Currently, approximately 60% of ITAM graduates hold high level management positions in their companies or institutions.



## TAKE THE FIRST STEP TODAY

Contact the Director of the Undergraduate Program in  
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## HIGH SCHOOL LIAISON OFFICE

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# MECHATRONICS ENGINEERING