Tecnológico de Monterrey



IMT/BME
B.S. in Mechatronics Engineering

Design, integrate, and automate the future.

Why study this program at Tec de Monterrey?

From your first semester, you'll be part of an ecosystem that blends mechanics, electronics, programming and control.

- **You'll design technological solutions that generate economic, social and environmental value.**
- **You'll master emerging tools like robotics, smart manufacturing and cyber-physical systems.**

Is this your path?

If you're passionate about robotics, automation, automated system design, and creating technologies that improve life...

IMT is your platform to make it happen.

Picture this:

Developing surgical robots or rehab exoskeletons.
Creating tech for autonomous vehicles or smart production lines.
Leading global industrial automation projects with sustainable impact.

At Tec, that future starts now.



What makes this program unique at Tec:

- Interdisciplinary approach with strong tech foundations and a focus on innovation
- Concentrations in Automotive Engineering, Biomechanics, Smart Grids and Industry 4.0 Systems
- International partnerships with universities in Germany, South Korea and the U.S.
- Industry ties with companies like Tesla, Ford, P&G and DB
- Specialized labs for automation, smart manufacturing and robotics across multiple campuses

Here, you're part of something bigger:

- TOP 83 — Worldwide in Mechanical and Manufacturing Engineering (QS 2026)
- International programs in South Korea, Germany, the U.S. and more
- Real-world collaboration with industry leaders
- Check which campuses offer this program at tec.mx

Your career opportunities, full of possibilities. Just a few examples:

- Design and programming of robotic systems
- Industrial automation in manufacturing, pharma or agribusiness
- Emerging technologies: autonomous vehicles, drones, 3D printing
- Tech-based consulting or entrepreneurship
- Development of medical, automotive or aerospace devices



Voices already making an impact:

Ixchel Orozco, B.S. in Mechatronics Engineering student, created a low-cost device using 3D printing and ergonomic design to help people with muscular dystrophy write and draw.

A glimpse of how our community makes a real-world difference.



Skills you'll develop:

- Design mechatronic systems that solve real-world challenges
- Integrate mechanical, electronic and software components
- Automate processes aligned with current standards and performance criteria
- Communicate complex solutions ethically, responsibly and effectively
- Build sustainable futures through engineering

Your talent is already in motion. Here, you'll learn to integrate it into the future.

Take the first step toward engineering that transforms.

Tecnológico de Monterrey

Curriculum
B.S. in Mechatronics Engineering

1ST SEMESTER
- Mathematics and Science
- Differential and Integral Calculus
- Biology and Sustainability
- Algorithmic Thinking
- Innovative Perspectives in Engineering
- The Laws of Motion and Conservation
- Tec Week: Induction to the Social Service
- Tec Week Elective I

2ND SEMESTER
- Humanities and Fine Arts
- Multivariable Calculus
- Linear Algebra
- Chemistry Fundamentals
- Exploration Topic
- Statistics and Data Handling
- Fundamentals of Thermodynamics
- Foreign language
- Tec Week Elective II
- Tec Week Elective III

3TH SEMESTER
- Social and Behavioral Sciences
- Fundamentals of Mechanics
- Differential Equations
- Fundamentals of Object-Oriented Programming
- Electricity and Magnetism
- Applied Electrical Circuits
- Fundamentals of Engineering Design
- Tec Week Elective IV
- Tec Week Elective V

4TH SEMESTER
- Leadership, Entrepreneurship and Innovation
- Electrical and Digital Circuits
- Dynamic Systems Modeling
- Motion Mechatronics
- Integration of Mechatronic Elements
- Disciplinary Tec Week: Artificial Intelligence for Technical and Scientific Writing
- Tec Week Elective VI

5TH SEMESTER
- Ethics and Citizenship
- Control Systems Design
- Fundamentals of Thermofluids
- Microcontrollers and Applied Electronics
- Industrial Automation
- Tec Week: Professional Life Planning
- Tec Week Elective VII

6TH SEMESTER
- Industrial Robotics Fundamentals
- Advanced Programming of Robotic Systems
- Advanced Control Systems
- Industrial Networks
- Automated Manufacturing Systems
- Tec Week Elective VIII
- Tec Week Elective IX

7TH SEMESTER
TEC SEMESTER

You'll be able to customize your career through:
- Concentrations
- Internships
- International experience
- Elective training units

- Tec Week Elective X
- Tec Week Elective XI

8TH SEMESTER
- Elective Multidisciplinary Professional
- Mechatronics Capstone Project
- Tec Week: Strategies and Guides for the Final Degree Exam
- Tec Week Elective XII

● You'll be able to customize your learning experience by choosing from the different available options.

*The curriculum may vary. Contact an admissions advisor or visit **tec.mx** for more information.

BACHELOR

This program is also offered in English as:
B.S. in Mechatronics Engineering.

Your future in MECHATRONICS ENGINEERING starts here.

WHY NOT?

Want more info?

Scan this QR to know more about this program.
tec.mx/bme

RVOE: DEC-520912