Tecnológico de Monterrey

IID

B.S. in Innovation and Development Engineering

Innovate for a better future.

Why study IID at Tec?

From your very first semester, you dive into an ecosystem that drives technology-based creation. Here, you don't just learn how to design products or services—you're trained to transform entire industries. You study cutting-edge methodologies for innovation and entrepreneurship. You design solutions that combine technology, creativity, and strategic vision. You evaluate and implement disruptive, sustainable, and user-centered business models.

Is this your path?

If you're creative and passionate about product design, technological development, and entrepreneurship—and you're interested in computing, mechatronics, AI, and data analytics...

IID at Tec is your platform to make it happen!

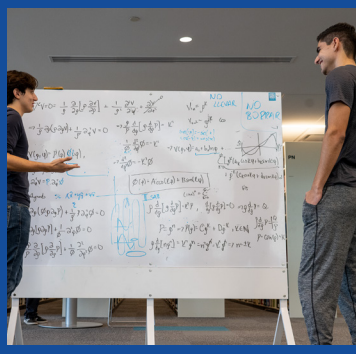


What makes this degree unique at Tec:

- You learn through agile methodologies and applied technology for innovative product development.
- You can specialize in more than 10 concentrations that blend design, engineering, AI, and entrepreneurship.
- You collaborate on real-world projects with companies such as Ternium, Protexa, OXXO, and Metalsa.
- You have opportunities for dual degrees with universities like DHIK, Essex, or Pforzheim.

Your career field has countless paths. Some of them include:

- Innovation in technological products and services
- Technology-based entrepreneurship
- Strategic innovation management
- Business model design
- Prototyping and product design
- Development of digital or physical-digital solutions
- Leadership in startups or global companies
- Agile project management and digital transformation





Skills you will develop:

- Creating technology-based products and services with a market-driven vision
- Leading innovation processes using agile methodologies
- Developing ventures with high social and economic impact
- Integrating AI and human–computer interaction into practical solutions
- Acting with ethics, responsibility, and a focus on sustainability
- Designing possible futures through data, creativity, and analysis

Imagine this:

Leading the redesign of electric buses, developing an educational video game with social impact, or launching a startup focused on smart devices for retail.

At Tec, that future starts today.

You'll be part of something bigger

- Real-world projects with industrial impact (electric vehicles, thermostats, smart pricing devices)
- International programs with UBC, Essex, Leeds, Rennes, and more
- Dual degrees and academic exchanges with Europe and Canada
- Strong connections with key industries in technological innovation
- Check which campuses offer this program at tec.mx

The voices of those already making an impact

- **Daniel Jara** – Strategic Project & Innovation Manager at the Nuevo León Ministry of Economy .
- **Ana Lucía Díaz de León** – Product Analyst at Vretta.
- **Arturo Martínez** – Innovation Leader at Quimmco.

A glimpse of how our community creates real impact.

From idea to impact: here, you make it possible.

Take the first step toward the engineering that transforms communities.

Tecnológico de Monterrey

Curriculum
B.S. in Innovation and Development Engineering

SEMESTER 1
- Elective Course 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

SEMESTER 2
- Elective Course 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

SEMESTER 3
- Elective Course 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

SEMESTER 4
- Elective Course Leadership, Entrepreneurship and Innovation
- Electrical and Digital Circuits
- Inferential and Predictive Statistics
- Motion Mechatronics
- Data Architecture and Usage
- Product Design
- Disciplinary Tec week
- Tec Week Elective VI

SEMESTER 5
- Elective Course Ethics and Citizenship
- Introduction to Artificial Intelligence
- Applied Engineering Economics
- Agile Development of Technology-based Products
- Venture Capital
- Artificial Intelligence Models
- Data Exploration and Predictive Analysis
- Tec Week: Professional Life Planning
- Tec Week Elective VII

SEMESTER 6
- Technology Entrepreneurship
- Management of Innovation and Technology Development
- Human-Computer Interactions (HCI) Design
- Integration of Mechatronic Elements
- Tec Week Elective VIII
- Tec Week Elective IX

SEMESTER 7
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

SEMESTER 8
- Elective Multidisciplinary Professional
- Capstone Innovation and Development 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.

Want more info?

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

Your future in INNOVATION AND DEVELOPMENT ENGINEERING starts here.

WHY NOT?

RVOE: DEC-520912