

# IIND



# Global Program

## Bachelor's Degree **Industrial Engineering** **PROGRAM WITH CLASSES 100% IN ENGLISH**

Professional whose primary function deals with the optimization of complex processes of goods and services in order to maintain and improve their competitiveness in a globalized world.

### What roles or positions can an Industrial Engineer have in an organization?

- Process Engineer.
- Quality Manager.
- Staff Director.
- Logistics Manager.
- Manufacturing Manager.

### Which is the required profile to study the Global Program in Industrial Engineering?

- Mathematics and physics fundamentals.
- Likes to work with integrated systems of machines.
- Motivated towards the design & optimization of processes.
- Analysis & synthesis capability.
- Ability to solve problems.

### Which abilities will you have once you graduate as a Global Industrial Engineer?

Optimize manufacturing operations, manage production plant operations, manage supply chain, quality engineering, & system simulation of production systems. Devise efficient ways to use organization resources properly.

### Which are the CETYS differentiators?

- Internationalization.
- Entrepreneurship & Innovation.
- Link with the community.
- Information culture.
- Sustainability.
- Social Responsibility.

### Distinctive Elements of IIND Global Program

- New Program with classes fully delivered in English.
- Professional Certification (OpEx/Lean Six Sigma).
- Distinguished lectures and specialized faculty.
- Real projects with global businesses.
- International exchanges.

We provide a collaboration network of **more than 100 universities** worldwide, which allows student exchange and the opportunity to live an international experience.



### This program is accredited by

Graduates from this program will earn the official Mexican undergraduate degree certificate "Ingeniería Industrial".

The Industrial Engineering program is accredited by ABET at Campus Mexicali.



Engineering Accreditation Commission

CACEI

WASC

**CETYS**  
**UNIVERSIDAD**

## Which courses will you take in the Global Program in Industrial Engineering?

This undergraduate program is comprised of the following curriculum:



## ACADEMIC CURRICULUM

**01**

### FIRST SEMESTER

- Information Management
- Fundamentals of Mathematics for Engineering
- Programming Methods
- Introduction to Industrial Engineering
- Industrial Chemistry

**02**

### SECOND SEMESTER

- Oral & Written Communication in Spanish
- Engineering Design
- Differential Calculus
- Data Analysis & Organization
- Statics

**03**

### THIRD SEMESTER

- Globalization, Culture & Society
- Numerical Methods
- Integral Calculus
- Engineering Materials
- Dynamics

**04**

### FOURTH SEMESTER

- Contemporary Art & Culture
- Differential Equations
- Electricity & Magnetism
- Manufacturing of Materials
- Probability
- Methods Engineering

**05**

### FIFTH SEMESTER

- Oral & Written Communication in English
- Statistical Inference
- Lean Manufacturing and Quality Management Systems
- Industrial Electronics
- Multivariable Calculus
- Research Methodology

**06**

### SIXTH SEMESTER

- Human Being & Society
- Industrial Management
- Operations Research Models I
- Quality Engineering
- Production Systems Engineering I
- Elective I

**07**

### SEVENTH SEMESTER

- Human Being & Sustainability
- Production Systems Engineering II
- Operations Research Models II
- Design of Experiments
- Industrial Engineering Topics
- Elective II

**08**

### EIGHTH SEMESTER

- Human Being & Ethics
- Engineering Economy
- Simulation Systems
- Industrial Engineering Capstone
- Project Management
- Elective III



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