

Here are Tec de Monterrey's 7 new degrees



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Tecnológico de Monterrey will launch 7 new professional degrees as part of its [TEC21 Educational Model](#).

The [TEC21 Model](#) includes **challenge-based learning**, **flexibility** (as to how, when, and where you learn), a **memorable university experience**, and **inspiring teachers and mentors**.

This model **will be fully embraced by its 44 degrees** over the 2019-2020 cycle, although **it has already been partially implemented** in all of them.

The new degrees follow two major trends:

- *Development and utilization of smart technology*
- *Creation of transformative solutions for the social, labor, and educational challenges of the future*

1. BUSINESS INTELLIGENCE



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The challenge

The **need for business analytics based on Big Data has grown exponentially**. There's a great deal of data and too few sufficiently trained specialists to analyze it.

The new degree

Will create **specialists in business, technology and statistics**, who will be able to **understand the market and identify risks and opportunities**.

2. DATA SCIENCE AND MATHEMATICS



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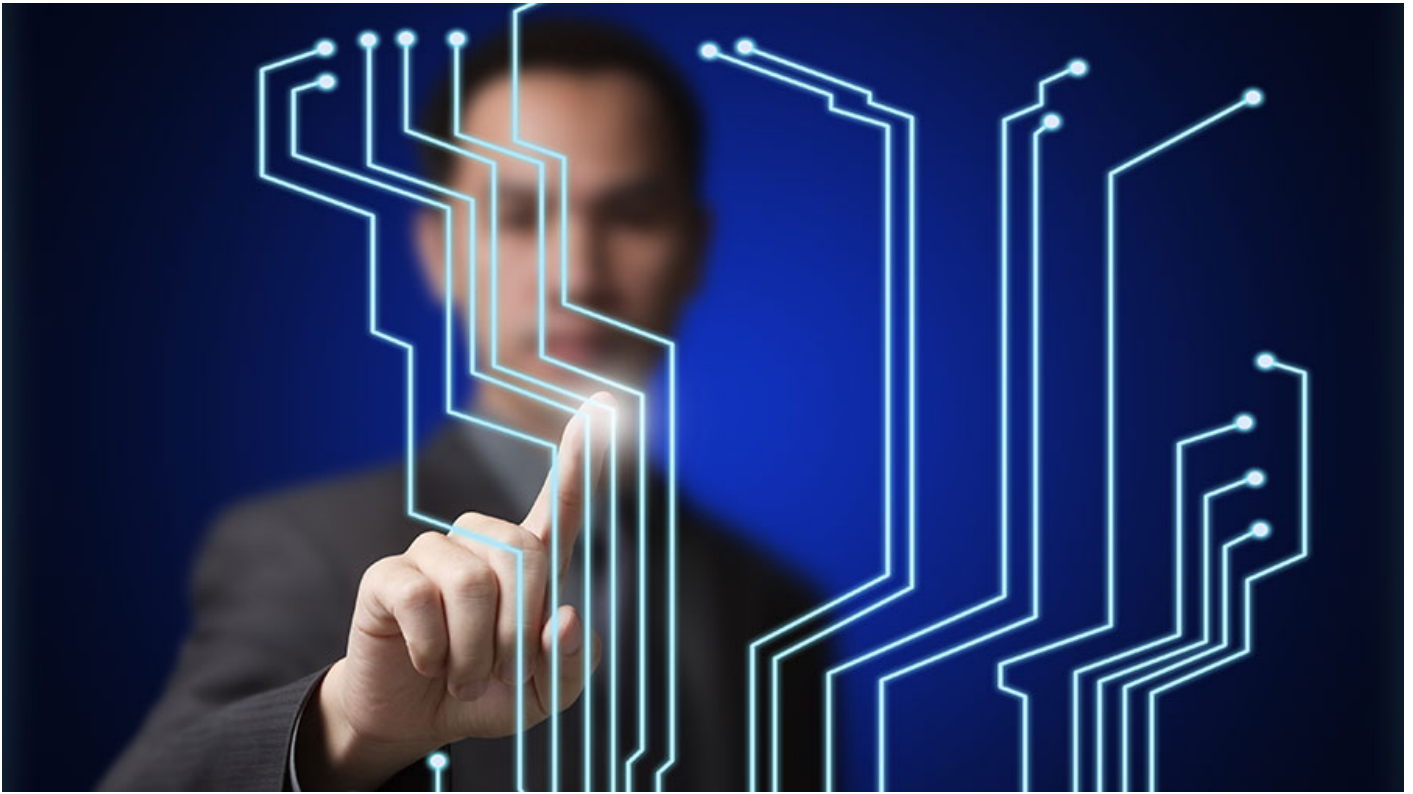
The challenge

According to the World Economic Forum, **2.5 quintillion bytes** of information are generated every day and **robust algorithms** are required for organizational **processes and security**.

The new degree

Will train **experts in mathematical models and large-scale optimization**, who can develop solutions for **artificial intelligence, Big Data, cryptography and cyber security**.

3. ELECTRONIC ENGINEERING



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The challenge

Due to **the rapid pace of change in telecommunications and electronics worldwide, a new kind of electronics engineer is required** in Mexico and in the world.

The new degree

Graduates **will design smart telecommunications devices, smart sensors** and operate **smart power grids**, using **miniaturization and innovation**.

4. URBAN PLANNING



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The challenge

Society is presented with serious challenges due to the rapid growth of cities. The UN estimates that 6 out of 10 people will be living in the world's urban areas by 2030.

The new degree

Specialists from the **Urban Planning** degree will develop **innovative solutions** for cities through **cutting-edge methods and technology**.

5. EDUCATIONAL INNOVATION



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The challenge

According to LinkedIn, **between 8 and 9 percent of the jobs that will exist in 2030 have not yet been invented**, so words such as **change and adaptation are essential for education in the 21st century**.

The new degree

Will train professionals to **transform learning**, mastering the use of cutting-edge **technological tools, teaching, problem solving and applied research**.

6. DEVELOPING TALENT AND ORGANIZATIONAL CULTURE



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The challenge

Today's **new workplaces** are **more multicultural and diverse**, while **organizational processes** need to become **more versatile and agile**.

The new degree

This degree will train **specialists** focused on **strategic organizational management** and on the needs for **growth, employee wellbeing, and positive organizational culture**.

7. GOVERNMENT AND PUBLIC TRANSFORMATION



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The challenge

True professionals are required for the **public transformation** of **21st century societies**. They must be able to **push for the changes necessary** and help put them into practice.

The new degree

These specialists will devise **public enterprise** models and perform **research** into **political and social issues** from a **multidisciplinary and prospective perspective**, aided by **cutting-edge technology**.

[READ MORE ABOUT THE TEC21 MODEL HERE](#)

READ MORE NEWS AT CONECTA:

<https://tec.mx/en/news/national/education/first-full-year-tec21-model-gets-under-way-tec-de-monterrey>