

First simultaneous holographic class at 11 Tec campuses



For the first time, master's degree students have had a class with a hologram professor at 11 Tec campuses simultaneously.

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For the first time, [Tecnológico de Monterrey](#) students from 11 campuses simultaneously **experienced a class** with **two-dimensional holographic-effect projection technology**.

"It seemed like the teacher was in many places at the same time; it was a privilege to experience this," said **Said Arellanos**, one of the students who took the class in Mexico City.

The **"Winning with AI"** class was given by [Militza Basualdo](#), a Tec professor, partner at the Accelencia consulting firm, and author of the book [Winning with Artificial Intelligence](#).

Participating were nearly **160 master's degree students** from the **School of Engineering and Sciences** in **Guadalajara, Monterrey, Mexico City, State of Mexico, Santa Fe, Querétaro, Chihuahua, Tampico, Saltillo, Laguna, and Ciudad Juárez.**



Holographic-effect technology is an educational innovation that humanizes the technological experience and generates an immersive environment much closer to a face-to-face class.

The first 11-campus holographic class

Gabriela Romero, a master's degree student in Mexico City, described the experience. *"When I arrived and saw the life-size professor in the classroom, **it made such an impact.** It really helps you feel like she is there."*

*"I really enjoyed being able to raise my hand and **have her see me and let me speak,** like in a normal classroom," she added.*

Students from **seven Tec master's degree programs** had a simultaneous class with the holographic-effect technology:

- *Master's Degree in Information Technology*
- *Master's Degree in Engineering Management*
- *Master's Degree in Engineering with a Specialization in Quality and Productivity Systems*
- *Master's Degree in Entrepreneurial Innovation*
- *Master's degree in Cybersecurity*
- *Master's Degree in Applied Artificial Intelligence*
- *Master's Degree in Energy Management and Renewable Energy Sources.*

“Although the technology is important, this wouldn't be possible without an excellent professor”- Leticia Castaño.

The experience at the Ciudad Juárez campus.



For Militza Basualdo, it was her first time **teaching as a holographic-effect professor.**

*“It was a very pleasant and interesting experience. I enjoyed **interacting with students from many geographic areas**. It provides many possibilities for training in the future.”*

The class covered everything from **creating new jobs** with artificial intelligence to **profitable ways companies can use it**.

This class was an initiative led by the Tec’s **Department of Educational Innovation and Digital Learning** and was supported by staff from all 11 campuses.

*“We’re very happy to see how the **teaching-learning experience with students and professors is transforming**. The greatest satisfaction is seeing how they value it,”* says Patricia Aldape, the Tec’s Director of Learning Experience Innovation.

Behind the scenes with Professor Militza Basualdo.



The “magic” of the holographic effect

Holographic-effect technology, unlike a Zoom class, allows students to clearly see a life-sized professor and **interact with her** without technological barriers.

There is no need to pass a microphone or press a button; **classrooms on each campus are already automated to create an immersive experience.**

*“Although the **technology is important**, this **wouldn’t be possible without an excellent professor**,” says **Leticia Castaño**, leader of Educational Innovation for Adaptive Learning and Holographic-Effect Professors.*

*“We work with professors **minute by minute to prepare their material**, using **didactic strategies**; it really is as if they’re on air for television,” she added.*

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This process is known as **putting together the experience, in which you train and work with the professor who will be conducting the class.**

They are given support to prepare their class and trained **on how to interact with the technology and move around to look good in the holographic-effect projection.**

*“This is the main part of the experience because we need to connect with the student as much as the technology, so that **they really have an interesting educational experience**,” says Patricia Aldape.*



Tec de Monterrey has been a pioneer in hologram technology since 2018.

Hologram technology at Tec de Monterrey

This technology has been in use at Tec de Monterrey since August 2018.

Since then, classes have been taught in physics, chemistry, mathematics, financial programming, medicine, history, art history, architecture, business, finance, management, and engineering.

Currently, **11 Tec campuses** have **receiving classrooms** equipped with this technology and **three of them** (Monterrey, Santa Fe, and Querétaro) have the **capacity to transmit** to the others.

In 2022, [Tec de Monterrey](#) and [Delft University of Technology \(TU Delft\)](#) in the **Netherlands** held the **first intercontinental class** using the institution's educational innovation for holographic projections of professors.

This coming November 6, 2023, Tec de Monterrey will be on the **receiving end of a class from Delft University of Technology**.

Moreover, the team is already **working on new experiences**, such as **holorooms**, where there will be more **space for professors**, and **two or three professors will be able to teach the class at the same time**, as well as other advances that will be announced soon.

If you would like to learn more about this or other educational innovations, please visit the website innovacioneducativa.tec.mx

Class at Santa Fe campus.



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