

New PROGRAM

GRADUATE PROGRAM

Doctorate in Engineering and Innovation

Mixed Modality

A cutting-edge multidisciplinary program designed to train researchers who drive knowledge creation and innovation through Industry 5.0 technologies—shaping solutions that create a lasting, positive impact on society.

COMPETENCIES TO BE DEVELOPED



Develop and execute research in the context of Industry 5.0 by selecting appropriate methodologies, analyzing data rigorously, interpreting results critically, and effectively communicating findings through academic publications.



Identify opportunities for innovation in highly automated and connected industrial and social environments, applying creative and disruptive solutions to meet the evolving needs of society and industry.



Utilize multidisciplinary methodologies and cutting-edge engineering techniques to address societal challenges, enhancing the efficiency and sustainability of productive activities.

PROGRAM FEATURES

- ▶ Designed for professionals in Engineering and Science working in diverse industrial settings, this program equips researchers to drive innovation and enhance productive activities.
- ▶ Duration **3.5 years**
- ▶ **Semester-based | 12 subjects**
- ▶ **Mixed Modality**
- ▶ Distinctive Elements:
 - Emphasis on Applied Research & Innovation
 - Focus on Intellectual Property Generation
 - National & International Faculty
 - Aligned with Industry & Societal Challenges

Expand Your Education with Global Experiences



At CETYS University, we connect you to the world through unique international learning opportunities. In the Doctorate in Engineering and Innovation, you will have the chance to study abroad, guided by a doctoral committee composed of distinguished professors from around the globe.

About the Mixes Modality Learning Format

- Balance your learning experience with a mix of in-person and online coursework.
- Participate in on-campus activities, synchronous virtual classes, and distance learning through cutting-edge platforms and through digital platforms.
- Gain hands-on experience through field projects supported by industry leaders in the region.

CURRICULUM

FOUNDATION TRACK

Doctoral Training I

Doctoral Training II

Doctoral Training III

Subjects focused on developing skills in research and innovation.

DOCTORAL SPECIALIZATION TRACK

Computational Intelligence

Robotics and Autonomous Systems

Big Data Analytics

Materials Engineering and Design

Sustainable Industrial Development

At this stage, students will choose **4 courses** from our catalog, tailored to their multidisciplinary research interests.

RESEARCH TRACK

Applied Research I

Applied Research II

Applied Research III

Research Products I

Research Products II

Courses focused on the development of the doctoral thesis, journal articles, and intellectual property.