Postgraduate Certificate

Teaching Practice with Generative Artificial Intelligence

tech global university

Postgraduate Certificate
Teaching Practice with Generative Artificial Intelligence

- » Modality: **online**
- » Duration: **6 weeks**
- » Certificate: **TECH Global University**
- » Accreditation: **6 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

Website: **www.techtitute.com/us/education/postgraduate-certificate/teaching-practice-generative-artificial-intelligence**

Index

01
Introduction

Artificial Intelligence (AI) has numerous applications in the field of education, which improve teachers' projects. For example, its tools help to develop assessment tests adapted to the learning pace of each student. Likewise, Machine Learning is used to grade tests objectively and consistently, which is important in high-impact evaluations. It also allows for the detection of plagiarism in answers, which contributes to academic integrity and fairness during the evaluation process. In order for professionals to take full advantage of these procedures, TECH implements a university program that will provide the keys to creating teaching materials with Generative AI. All in a convenient 100% online format.

You will master Artificial Intelligence and use it with agility to create didactic materials, all thanks to this 100% online program"

Teaching Practice with Machine Learning involves the use of advanced systems to enrich classroom learning. Teachers take advantage of these resources to generate personalized and detailed feedback on students' work. In this way, they can include specific suggestions for improvement in the exercises. Along the same lines, the AI is able to recommend additional learning resources to students, such as complementary readings or even practice exercises. This helps to make teaching more personalized, thereby driving improvements during the learning process.

In this context, TECH launches a Postgraduate Certificate that will analyze in detail the AI technologies for its use in Education. The academic itinerary will delve into the keys to create didactic materials, including evaluation tests. In turn, the syllabus will delve into the generation of teacher quality evaluation surveys, so that teachers can take advantage of this feedback to improve their projects. The program will also provide strategies to evaluate the effectiveness of generative AI in the classroom. Therefore, graduates will acquire cutting-edge competencies with which to optimize their procedures and provide quality-based services.

All this, in addition, complemented by quality teaching resources based on multimedia pills, reflective readings and case studies that will be accessible 24 hours a day, from any digital device with an Internet connection (such as a cell phone, *tablet* or computer). An academic option that offers future educators a unique opportunity to progress in their sector through a flexible qualification that gives them greater freedom to consult the syllabus whenever and wherever they wish. Undoubtedly, an ideal option for those who seek to reconcile their daily activity with a quality education.

The **Postgraduate Certificate in Teaching Practice with Generative Artificial Intelligence** contains the most complete and up-to-date educational program on the market. The most important features include:

♦ Development of practical cases presented by experts in Teaching Practice with Generative Artificial Intelligence

♦ The graphic, schematic and practical contents of the book provide theoretical and practical information on those disciplines that are essential for professional practice

♦ Practical exercises where self-assessment can be used to improve learning.

♦ Its special emphasis on innovative methodologies

♦ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments

♦ Content that is accessible from any fixed or portable device with an Internet connection

Do you want to nurture yourself with the most effective pedagogical strategies to provide quality teaching? Achieve it in just 6 weeks thanks to this program"

" *You will take advantage of the feedback to improve your teaching practice and enrich the learning experience of your students"*

You will use Smart Learning to correct both activities and evaluative tests.

You will reinforce your key knowledge through the innovative Relearning methodology for an effective assimilation of the subject.

The program includes in its teaching staff professionals from the sector who pour into this program the experience of their work, in addition to recognized specialists from reference societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the course. For this purpose, students will be assisted by an innovative interactive video system created by renowned and experienced experts.

02
Objectives

After 180 hours of training, graduates will acquire a holistic view of the application of Machine Learning in the educational environment. In line with this, teachers will develop new skills to create customized educational materials, adapted to the particular needs of students. In addition, educators will master AI tools to improve assessment, based on the feedback provided by educational platforms. In this way, professionals will be characterized by a work praxis defined by excellence and quality.

"
In order for you to achieve your academic goals in a flexible way, TECH provides you with a learning methodology based on free access to content"

General Objectives

- Understand the fundamental ethical principles related to the application of Artificial Intelligence (AI) in educational settings
- Analyze the current legislative framework and the challenges associated with the implementation of AI in educational settings
- Develop critical skills to evaluate the ethical and social impact of AI in education
- Encourage the responsible design and use of AI solutions in educational contexts, considering cultural diversity and gender equity
- Specialize in the design and implementation of AI projects in the educational environment
- Provide an in-depth understanding of the theoretical foundations of AI, including machine learning, neural networks, and natural language processing
- Develop skills to integrate AI projects effectively and ethically into the educational syllabus
- Understand the applications and impact of AI in teaching and learning, critically assessing its current and potential uses
- Apply generative AI to personalize and enrich teaching practice, creating adaptive educational materials
- Identify, evaluate, and apply the latest trends and emerging technologies in AI relevant to education, reflecting on their challenges and opportunities

Specific Objectives

- Master generative AI technologies for their application and effective use in educational environments, planning effective educational activities
- Create didactic materials using generative AI to improve the quality and variety of learning resources, as well as to measure student progress in innovative ways
- Use generative AI to correct activities and evaluative tests, streamlining and optimizing this process
- Integrate generative AI tools in pedagogical strategies to improve the effectiveness of the educational process and design inclusive learning environments, under the universal design approach
- Evaluate the effectiveness of generative AI in education, analyzing its impact on teaching and learning processes

Study through innovative multimedia didactic formats that will optimize your updating process"

03

Course Management

In its commitment to offer the highest quality education, TECH has carefully selected the teaching staff that makes up this Postgraduate Certificate. These professionals have years of work experience in Teaching Practice with Generative Artificial Intelligence. In this way, these experts remain at the forefront of the advances that have occurred in this field. Therefore, the didactic materials they have elaborated are characterized by their high quality and are still valid today. Students will enjoy immersive learning with the best experts in the field.

> *The diversity of talents and knowledge of the teaching staff will create a dynamic learning environment. Specialize with the best!"*

Management

Dr. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus Global Solutions
- CTO at Korporate Technologies
- CTO at AI Shepherds GmbH
- Consultant and Strategic Business Advisor at Alliance Medical
- Director of Design and Development at DocPath
- PhD. in Psychology from the University of Castilla La Mancha
- PhD in Economics, Business and Finance from the Camilo José Cela University
- PhD in Psychology from University of Castilla La Mancha
- Máster in Executive MBA por la Universidad Isabel I
- Master's Degree in Sales and Marketing Management, Isabel I University
- Expert Master's Degree in Big Data by Hadoop Training
- Master's Degree in Advanced Information Technologies from the University of Castilla La Mancha
- Member of: SMILE Research Group

Mr. Nájera Puente, Juan Felipe

- Director of Studies and Research at the Council for Quality Assurance in Higher Education
- Data Analyst and Data Scientist
- Production Programmer at Confiteca C.A.
- Processes Consultant at Esefex Consulting
- Academic Planning Analyst at San Francisco de Quito University
- Professional Master's Degree in Big Data and Data Science at the International University of Valencia
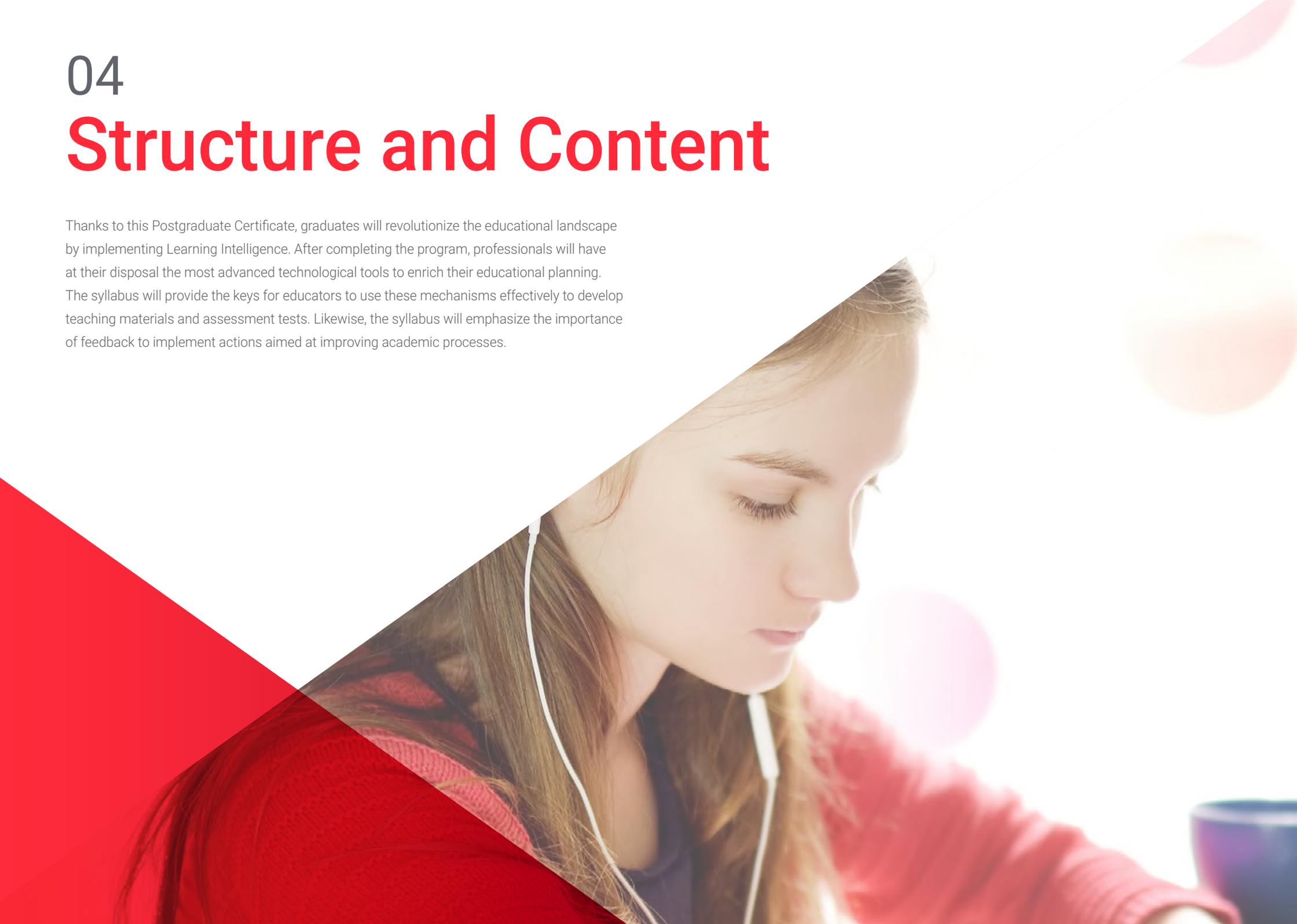- Industrial Engineer from San Francisco de Quito University

Professors

Ms. Martínez Cerrato, Yésica

- Responsible for Technical Training at Securitas Seguridad España
- Education, Business and Marketing Specialist
- Product Manager in Electronic Security at Securitas Seguridad España
- Business Intelligence Analyst at Ricopia Technologies
- Computer Technician and Responsible for OTEC computer classrooms at the University of Alcalá de Henares
- Collaborator in the ASALUMA Association
- Degree in Electronic Communications Engineering at the Polytechnic School, University of Alcalá de Henares

Structure and Content

Thanks to this Postgraduate Certificate, graduates will revolutionize the educational landscape by implementing Learning Intelligence. After completing the program, professionals will have at their disposal the most advanced technological tools to enrich their educational planning. The syllabus will provide the keys for educators to use these mechanisms effectively to develop teaching materials and assessment tests. Likewise, the syllabus will emphasize the importance of feedback to implement actions aimed at improving academic processes.

"
You will learn through real cases and the resolution of complex situations in simulated teaching environments"

Module 1. Teaching Practice with Generative Artificial Intelligence

1.1.   Generative AI Technologies for Use in Education
    1.1.1.   Current Market: Artbreeder, Runway ML and DeepDream Generator
    1.1.2.   Technologies in Use
    1.1.3.   What is to Come
    1.1.4.   The Future of the Classroom
1.2.   Application of Generative AI Tools in Educational Planning
    1.2.1.   Planning Tools: Altitude Learning
    1.2.2.   Tools and Their Application
    1.2.3.   Education and AI
    1.2.4.   Evolution
1.3.   Creating Teaching Materials with Generative AI Using Story Ai, Pix2PIx and NeouralTalk2
    1.3.1.   AI and its Uses in the Classroom
    1.3.2.   Tools to Create Teaching Material
    1.3.3.   How to Work with the Tools
    1.3.4.   Commands
1.4.   Development of Evaluation Tests using Generative AI with Quizgecko
    1.4.1.   AI and its Uses in the Development of Evaluation Tests
    1.4.2.   Tools for the Development of Evaluation Tests
    1.4.3.   How to Work with the Tools
    1.4.4.   Commands
1.5.   Enhanced Feedback and Communication with Generative AI
    1.5.1.   AI in Communication
    1.5.2.   Application of Tools in the Development of Communication in the Classroom
    1.5.3.   Advantages and Disadvantages
1.6.   Correction of Activities and Evaluative Tests using Generative AI with Grandscope AI
    1.6.1.   AI and its Uses in the Correction of Evaluative Activities and Tests
    1.6.2.   Tools for the Correction of Evaluative Activities and Tests
    1.6.3.   How to Work with the Tools
    1.6.4.   Commands

TECH is a university at the forefront of technology, which puts all its resources at your fingertips to help you achieve business success"

Methodology

This training program offers a different way of learning. Our methodology uses a cyclical learning approach: **Relearning.**

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.

> *Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

At TECH Education School we use the Case Method

In a given situation, what should a professional do? Throughout the program students will be presented with multiple simulated cases based on real situations, where they will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method.

With TECH, educators can experience a learning methodology that is shaking the foundations of traditional universities around the world.

Scientific Evidence

European Guidelines

Educational Community

Optimal Decision

It is a technique that develops critical skills and prepares educators to make decisions, defend their arguments, and contrast opinions.

"

Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method"

The effectiveness of the method is justified by four fundamental achievements:

1. Educators who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.

2. The learning process is solidly focused on practical skills that allow educators to better integrate the knowledge into daily practice.

3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life teaching.

4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

Our University is the first in the world to combine case studies with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, which represent a real revolution with respect to simply studying and analyzing cases.

Educators will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

At the forefront of world teaching, the *Relearning* method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have trained more than 85,000 educators with unprecedented success in all specialties. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, *learning* is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.

This program offers the best educational material, prepared with professionals in mind:

Study Material

All teaching material is produced by the specialist educators who teach the course, specifically for the course, so that the teaching content is really specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.

Educational Techniques and Procedures on Video

TECH introduces students to the latest techniques, with the latest educational advances, and to the forefront of Education. All this, first-hand, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.
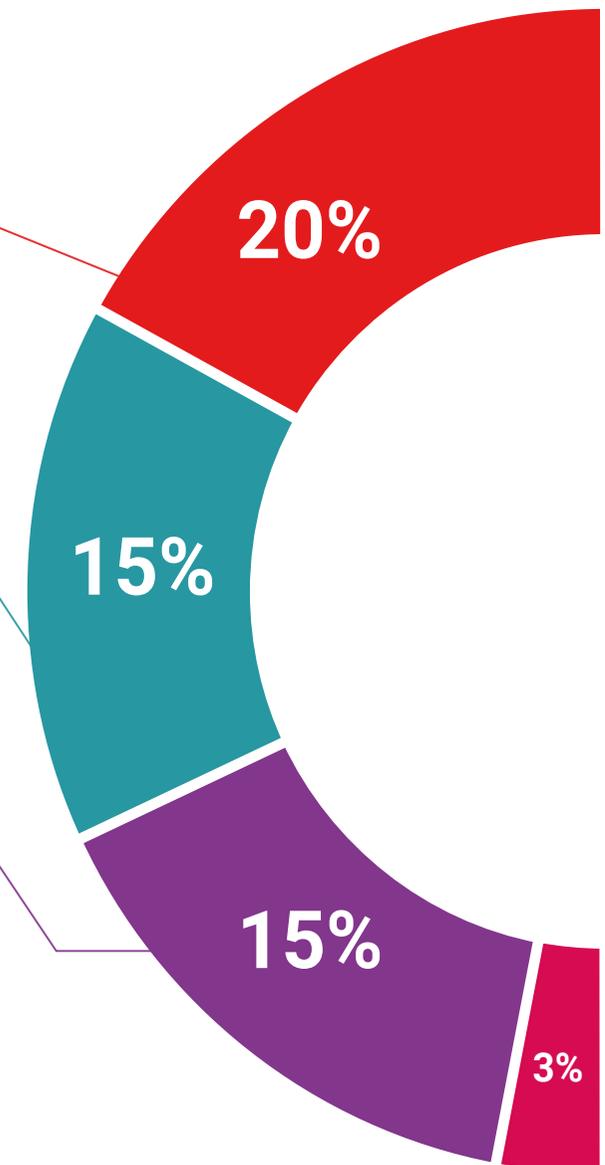
Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.
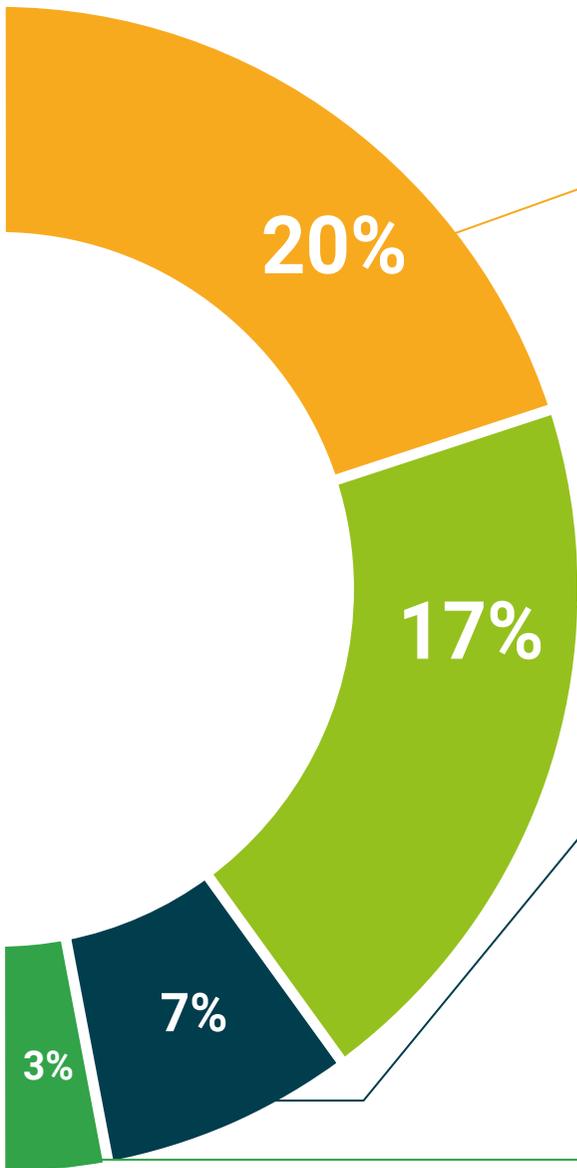
This exclusive multimedia content presentation training Exclusive system was awarded by Microsoft as a "European Success Story".

Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.

20%

15%

15%

3%

20%

17%

7%

3%

Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.

Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises: so that they can see how they are achieving your goals.

Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.

Certificate

The Postgraduate Certificate in Teaching Practice with Generative Artificial Intelligence guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.

" *Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"*

This private qualification will allow you to obtain a **Postgraduate Certificate in Teaching Practice with Generative Artificial Intelligence** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (**official bulletin**). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Teaching Practice with Generative Artificial Intelligence**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**

tech global university

Mr./Ms. _____, with identification document _____
has successfully passed and obtained the title of:

Postgraduate Certificate in Teaching Practice with Generative Artificial Intelligence

This is a private qualification of 180 hours of duration equivalent to 6 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

Unique TECH Code: AFWORD23S   techtitute.com/certificates

*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

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