Postgraduate Certificate

Teaching Practice with Generative Artificial Intelligence

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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/artificial-intelligence/postgraduate-certificate/teaching-practice-generative-artificial-intelligence**

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01

Introduction

The generation of teacher quality assessment surveys with Artificial Intelligence (AI) influences the improvement of teaching quality and informed decision making in Education. In this sense, teachers take advantage of these digital resources to collect data to improve academic attention by identifying areas of strengths and weaknesses. These factors range from clarity of explanations to interaction with students. In this way, experts will obtain information that they can use to adapt their methods to meet students' needs. For this reason, TECH has developed a revolutionary 100% online program, which will delve into the optimization of teaching practice with Artificial Intelligence.

Study from the comfort of your home and update your knowledge online with TECH Global University, the biggest online university in the world"

Intelligent Systems provide teachers with the ability to design educational resources in a personalized and efficient way. For example, thanks to Artificial Intelligence they can create didactic materials to boost student learning. Teachers use Machine Learning to create individualized activities, design interactive lessons through the inclusion of multimedia content and create personalized readings, depending on the level of understanding of each student. In line with this, Artificial Intelligence can be used to generate visual examples for students to understand complex concepts, in areas such as Physics, Chemistry or Biology.

In this context, TECH has implemented a pioneering program, which will address in detail the creation of didactic content through Artificial Intelligence. In this way, the syllabus will delve into the development of evaluation tests, as well as the correction of activities and evaluative tests. Likewise, multiple strategies will be offered to produce teaching quality evaluation surveys.

Moreover, the expert will examine how to develop effective evaluations, taking advantage of the effectiveness of generative Artificial Intelligence in Education. In addition, to strengthen the knowledge of the graduates, the program will include the analysis of several real case studies, using simulated learning environments.

On the other hand, the program is based on the innovative Relearning method, of which TECH is a pioneer. This teaching system uses the reiteration of key contents in a natural way, guaranteeing that they remain in the professionals' memory without the need to memorize.

It should also be noted that all that is required to access the Virtual Campus is an electronic device with Internet access (cell phones, tablets or computers). In addition, students can access a digital library full of additional didactic materials, including interactive summaries, to enrich their educational experience.

This **Postgraduate Certificate in Teaching Practice with Generative Artificial Intelligence** contains the most complete and up-to-date program on the market. Its 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 have at your fingertips the most effective pedagogical strategies to provide quality educational experiences? Achieve it in just 6 weeks thanks to this program"

You will get the most out of feedback to improve your teaching practice, through an extensive library of the most innovative multimedia resources"

You will master Artificial Intelligence and use it with agility for the correction of evaluative tests, all thanks to this 100% online Postgraduate Certificate.

You will have access to a learning system based on repetition, known as Relearning, with a natural and progressive teaching throughout the entire syllabus.

The program's teaching staff includes professionals from the field who contribute their work experience to this educational program, as well as renowned specialists from leading 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

Upon completion of this academic itinerary, teachers will obtain a comprehensive vision of the application of Machine Learning in the educational area. In this way, they will develop new competences to elaborate personalized educational materials adapted to the particular needs of the students. In this sense, professionals will use Artificial Intelligence tools to improve evaluation, taking advantage of feedback from educational platforms. In addition, specialists will stand out for their ethical awareness and moral values during their teachings.

The best teaching methodology and multimedia will be at your fingertips in this complete and innovative 100% online program"

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

TECH's learning system follows the highest international quality standards"

03

Course Management

TECH has prestigious specialists for the professional to enhance their knowledge. In this way, the faculty has extensive experience in Teaching Practice with Generative Artificial Intelligence. Thanks to this, the present Postgraduate Certificate will be characterized by offering the most updated and complete contents of the academic market. Graduates will be highly qualified to face the challenges in a highly competitive field, which offers numerous job opportunities.

The teaching staff of this program has a wide experience in research and professional application in the use of Artificial Intelligence in Education"

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

04

Structure and Content

This syllabus will address how generative Artificial Intelligence (AI) can transform and enrich teaching practice. Through 180 hours of learning, professionals will have at their disposal the most contemporary technological tools for use in educational planning. In this sense, they will be provided with the keys for graduates to develop teaching materials and evaluation tests using Intelligent Automation. At the same time, emphasis will be placed on the importance of feedback, in order to apply actions aimed at improving academic procedures.

This program will give you the opportunity to update your knowledge in real scenarios, with the maximum scientific rigor of an institution at the forefront of technology"

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

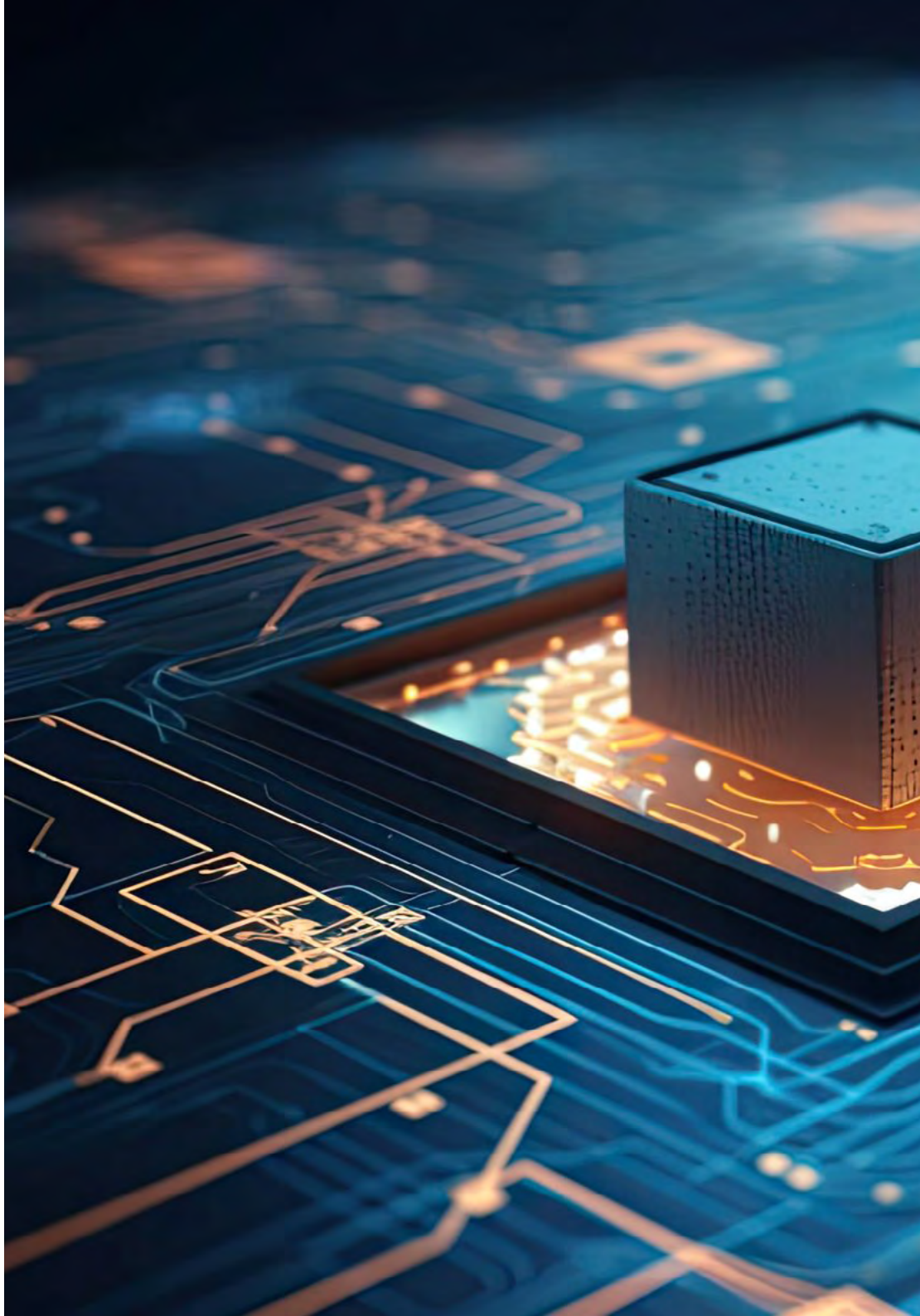
1.2. Application of Generative AI Tools in Educational Planning
- 1.2.1. Planning Tools: Altitude Learning
- 1.2.2. Tools and Their Application
- 1.2.3. Education and AI
- 1.2.4. Evolution

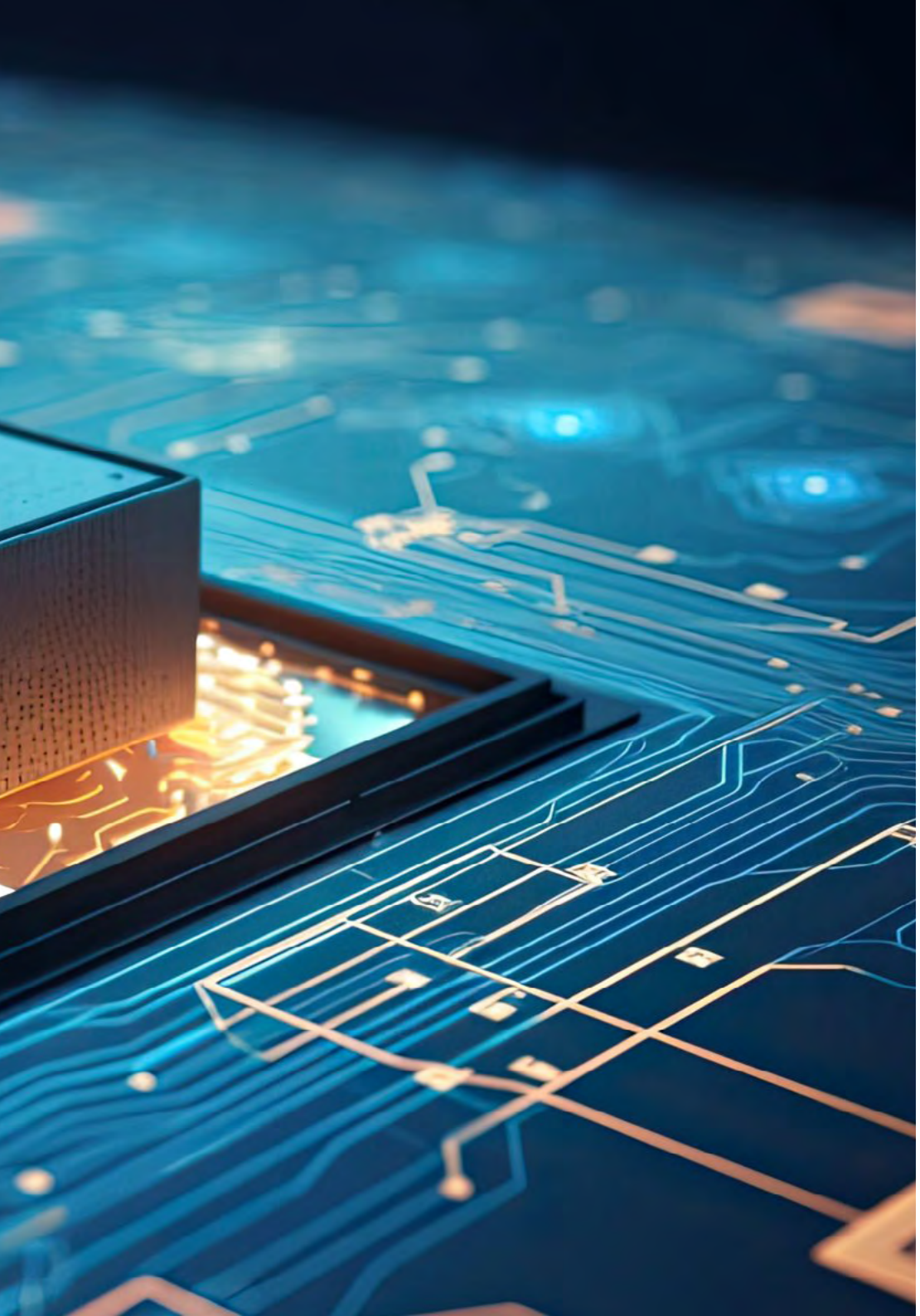
1.3. Creating Teaching Materials with Generative AI Using Story Ai, Pix2PIx and NeouralTalk2
- 1.3.1. AI and its Uses in the Classroom
- 1.3.2. Tools to Create Teaching Material
- 1.3.3. How to Work with the Tools
- 1.3.4. Commands

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





1.7. Generation of Teacher Quality Assessment Surveys through Generative AI
- 1.7.1. AI and its Uses in the Generation of Teaching Quality Assessment Surveys using AI
- 1.7.2. Tools for the Generation of AI-based Teacher Quality Surveys
- 1.7.3. How to Work with the Tools
- 1.7.4. Commands

1.8. Integration of Generative AI Tools in Pedagogical Strategies
- 1.8.1. Applications of AI in Pedagogical Strategies
- 1.8.2. Correct Uses
- 1.8.3. Advantages and Disadvantages
- 1.8.4. Generative AI Tools in Pedagogical Strategies: Gans

1.9. Use of Generative AI for Universal Design for Learning
- 1.9.1. Generative AI, Why Now?
- 1.9.2. AI in Learning
- 1.9.3. Advantages and Disadvantages
- 1.9.4. Applications of AI in Learning

1.10. Evaluating the Effectiveness of Generative AI in Education
- 1.10.1. Effectiveness Data
- 1.10.2. Projects
- 1.10.3. Design Purposes
- 1.10.4. Evaluating the Effectiveness of AI in Education

No rigid schedules or evaluative timelines. That's how flexible this TECH program is!"

05

Methodology

This academic program offers students 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"

Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"

You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.

The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

> *Our program prepares you to face new challenges in uncertain environments and achieve success in your career"*

The case method has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

Relearning Methodology

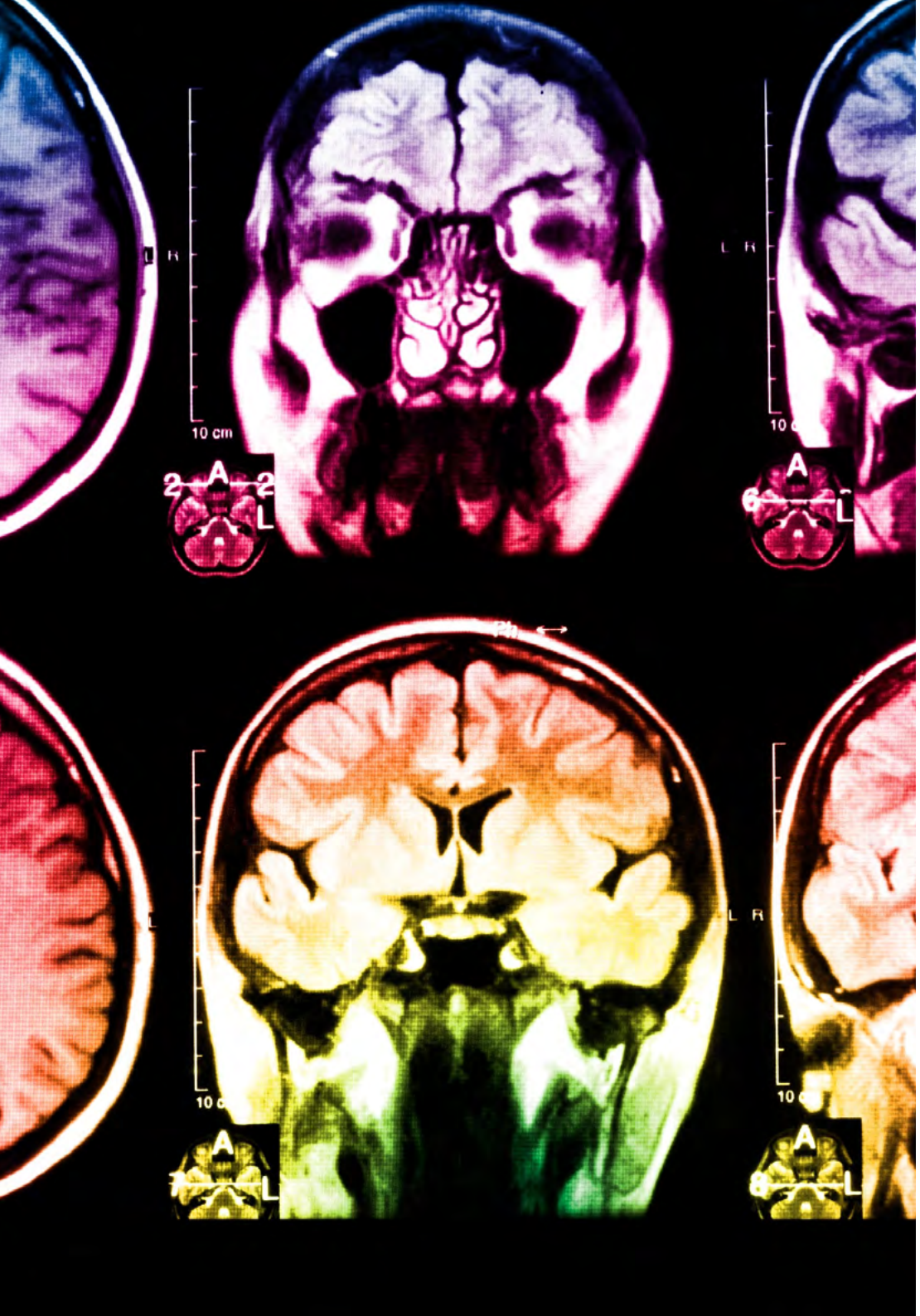
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

In 2019, we obtained the best learning results of all online universities in the world.

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



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. This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.

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

Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly 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.

Classes

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

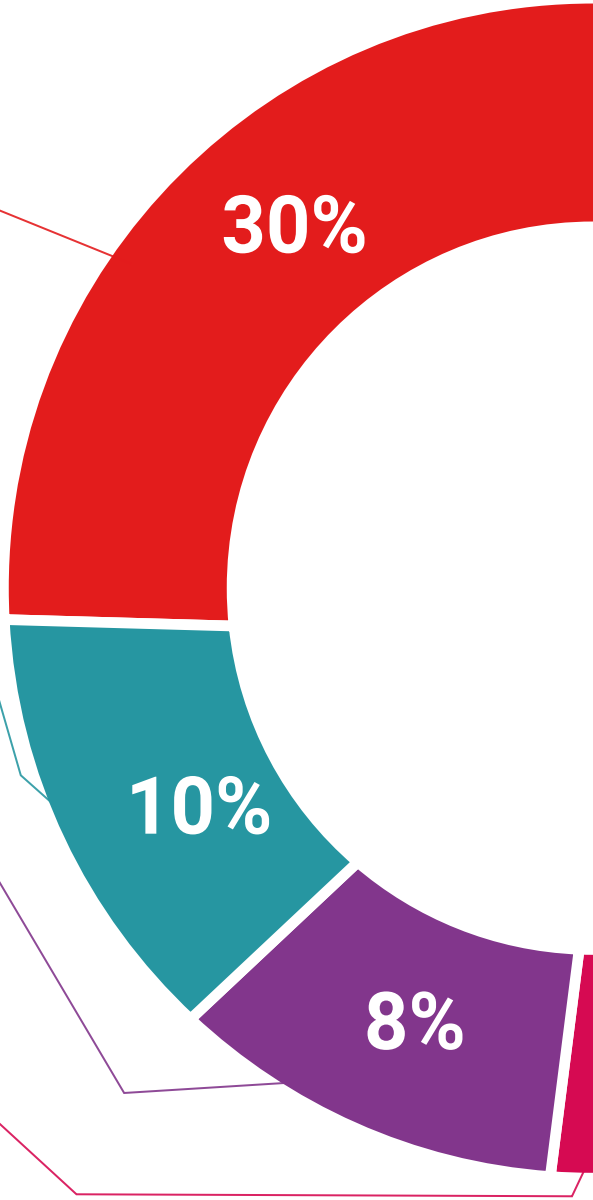
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

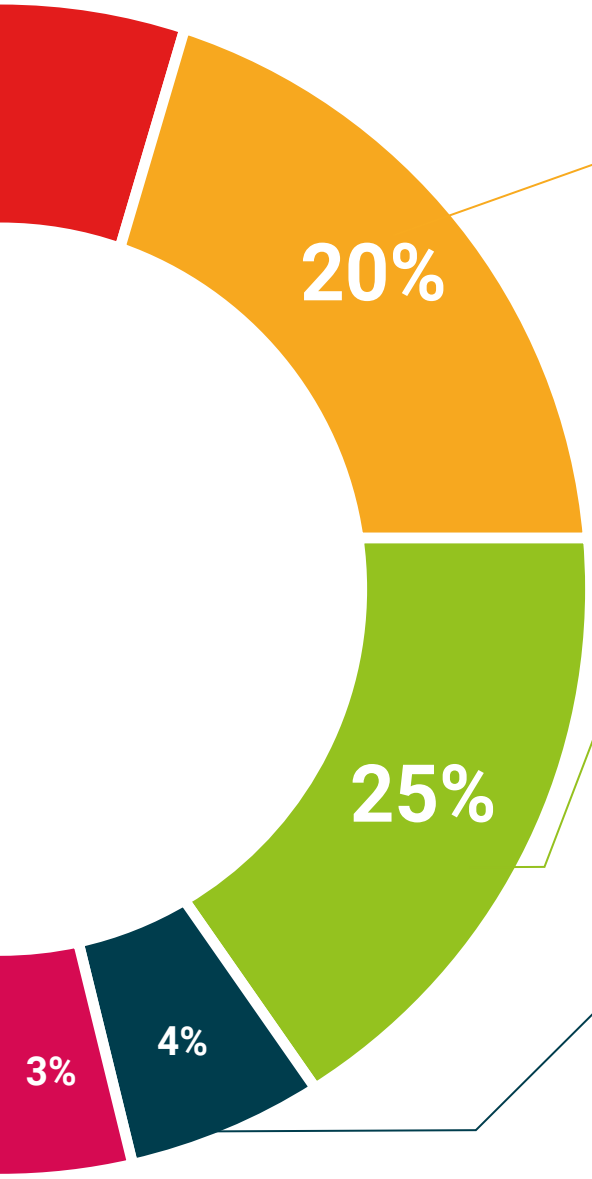
Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.

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.





Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.

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 educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

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 their goals.

06

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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