

Postgraduate Certificate

Optimizing Nutrition and Health Education with Artificial Intelligence in Nursing



Postgraduate Certificate Optimizing Nutrition and Health Education with Artificial Intelligence in Nursing

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

Website: www.techtute.com/us/artificial-intelligence/postgraduate-certificate/optimizing-nutrition-health-education-artificial-intelligence-nursing

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01

Introduction to the Program

The integration of Artificial Intelligence in Nursing is revolutionizing the optimization of nutrition and health education. In this sense, PAHO and IDB have launched the Artificial Intelligence Readiness Assessment Kit for Public Health: a tool that allows countries to assess their capacity to integrate AI into public health systems, optimizing strategic planning and improving health outcomes. Taking into account the importance of this field, TECH has developed this postgraduate course that will provide the most relevant knowledge about these technological innovations. From a 100% online methodology, specialists will acquire the skills to be at the forefront and enhance the quality of care in the 21st century.





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Take advantage of this 100% online and comprehensive program that will provide you with the most complete curriculum related to Nutrition Optimization and Health Education with AI in Nursing. Come on and sign up now!”

Artificial Intelligence has revolutionized the healthcare field, optimizing decision making and personalizing treatments. In the field of Nursing, its application in Nutrition and Health Education allows improving the dietary management of patients, preventing diseases and designing food plans adapted to each clinical profile. Thanks to the automation of data analysis and the implementation of predictive models, it is possible to identify nutritional deficiencies and establish more precise and effective intervention strategies.

In this scenario, TECH has developed this program in Nutrition Optimization and Health Education with AI in Nursing, a specialized program that will provide the key tools to master the use of intelligent tools within clinical practice. Throughout a comprehensive curriculum, key aspects such as biometric data analysis for health monitoring, the application of algorithms in dietary planning and digital health education for chronic patients will be addressed. In addition, the integration of chatbots and automated systems in nutritional counseling will be emphasized.

By acquiring this knowledge, graduates will be ready to access new opportunities in hospitals, clinics and research centers, where AI is transforming care models. In fact, specialization in these technologies will not only facilitate the optimization of resources in nutritional management, but will also open doors to innovation in digital health and leadership in telemedicine and preventive wellness projects.

Likewise, this program will be taught in 100% online mode, making it possible to combine learning with professional activity. At the same time, the Relearning methodology will be implemented, a system based on the reiteration of key concepts, which improves knowledge retention and optimizes learning in a progressive and effective way. All these advantages will provide a flexible and dynamic preparation, adapted to the needs of the students.

The **Postgraduate Certificate in Optimizing Nutrition and Health Education with Artificial Intelligence in Nursing** contains the most complete and up-to-date academic program on the market. Its most notable features are:

- ♦ Development of practical cases presented by experts in Artificial Intelligence
- ♦ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ♦ Practical exercises where the self-assessment process can be carried out to improve learning
- ♦ Its special emphasis on innovative methodologies in Optimization of Nutrition and Health Education with AI in Nursing
- ♦ 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



To access the teaching content, all you need is an electronic device connected to the Internet. Enroll now and learn at the time and place that best suits you"

“

TECH will offer you a program designed by specialists in Nutrition and Nursing, where you will learn from the analysis of biometric data to the implementation of algorithms in health care”

It includes in its teaching staff professionals belonging to the field of Artificial Intelligence 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 an immersive learning experience designed to prepare for real-life situations.

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

In this program you will master the use of Artificial Intelligence to optimize Nutrition and Health Education of your patients. Enroll now and become a reference in the sector!

Thanks to the online mode and Relearning, you will access the most advanced content on AI and Nutrition without neglecting your professional life. Take the next step in your professional career!



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.



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Study at the largest online university in the world and ensure your professional success. The future begins at TECH”

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.



The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

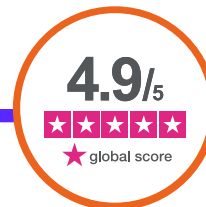
Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



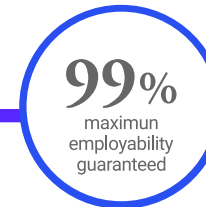
Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



03 Syllabus

TECH offers a comprehensive curriculum that will address the most innovative applications of AI in the field of health. Therefore, throughout the syllabus, specialists will delve into the use of advanced algorithms for the assessment of nutritional status, the personalization of diets and the optimization of supplementation. They will also address the analysis of biometric data and its application in the early detection of nutritional deficiencies. Finally, they will examine the implementation of interactive tools such as chatbots, mobile applications and e-learning platforms designed to improve adherence to nutritional treatments.



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Thanks to this comprehensive curriculum, you will not only boost your career, but also apply AI to personalize care and improve health, all from the comfort of your home”

Module 1. Optimizing Nutrition and Health Education with Artificial Intelligence in Nursing

- 1.1. Principles of Personalized Nutrition with Artificial Intelligence in Nursing
 - 1.1.1. Fundamentals of Personalized Nutrition
 - 1.1.2. Role of Artificial Intelligence in Individualized Nutrition
 - 1.1.3. Benefits of Personalization in Nutritional Plans
 - 1.1.4. Examples of Success in Personalized Nutrition
- 1.2. Application of Artificial Intelligence in Nutrition
 - 1.2.1. Artificial Intelligence Mobile Nutrition Applications (MyFitnessPal, Foodvisor, Yazio)
 - 1.2.2. Dietary Tracking Tools
 - 1.2.3. Comparison of Artificial Intelligence Apps for Nutrition
 - 1.2.4. Review of Popular Applications
- 1.3. Personalized Nutrition Assistants
 - 1.3.1. Artificial Intelligence for Nutritional Recommendations (Nutrino, Viome, Noom)
 - 1.3.2. Virtual Assistants in Nutrition
 - 1.3.3. Examples of Personalization in Nutrition
 - 1.3.4. Challenges in the Development of Nutritional Assistants
- 1.4. Comparison from Traditional Tools and Emotional Support from Artificial Intelligence in Nutrition
 - 1.4.1. Efficacy of Traditional Methods vs. Artificial Intelligence
 - 1.4.2. Benefits of Artificial Intelligence over Conventional Tools
 - 1.4.3. Costs and Accessibility of Artificial Intelligence Tools
 - 1.4.4. Comparative Case Studies
- 1.5. Future of Artificial Intelligence- Assisted Nutrition
 - 1.5.1. Technological Innovations in Nutrition
 - 1.5.2. Predictions on the Impact of Artificial Intelligence in Nutrition
 - 1.5.3. Future Challenges in the Personalization of Nutrition
 - 1.5.4. Long-Term Vision of Artificial Intelligence in Nutrition
- 1.6. Artificial Intelligence Tools for Outreach and Health Education
 - 1.6.1. Introduction to Artificial Intelligence Tools in Health Education
 - 1.6.2. Guide for Creating Effective Educational Prompts
 - 1.6.3. Introduction to Gemini
 - 1.6.4. Introduction to ChatGPT





- 1.7. Optimization of Educational Searches with Artificial Intelligence
 - 1.7.1. Artificial Intelligence-Assisted Search Engines
 - 1.7.2. Examples of Search Engines in Health Education
 - 1.7.3. Advanced AutoCAD Functions with Artificial Intelligence
 - 1.7.4. Using Special Operators to Improve Searches
- 1.8. Academic Presentations Enhanced with Artificial Intelligence
 - 1.8.1. Artificial Intelligence Tools for Academic Presentations
 - 1.8.2. ChatGPT for Scientific Presentations
 - 1.8.3. Gemini for Event Presentations
 - 1.8.4. Additional Platforms such as Gamma.app, Beautiful AI and Tome
- 1.9. Creation of Scientific Posters with Artificial Intelligence
 - 1.9.1. Introduction to Artificial Intelligence Tools for Posters
 - 1.9.2. Visme as a Tool for Scientific Posters
 - 1.9.3. Biorender for Visualizing Scientific Information
 - 1.9.4. Jasper and Canva in the Creation of Posters
- 1.10. Creating Educational Avatars and Assistants
 - 1.10.1. Artificial Intelligence Applied to the Creation of Educational Avatars
 - 1.10.2. Conversation Engines for Educational Assistants
 - 1.10.3. Tools such as Heygen and Synthesia
 - 1.10.4. Studio D-ID in the Creation of Interactive Avatars



TECH is backed by an innovative and results-oriented online methodology, which will allow you to reach your full potential and excel in Nutrition and Health Education with AI in Nursing”

04

Teaching Objectives

The main objective of this program is to provide professionals with the necessary skills to apply Artificial Intelligence to improve nutritional care and health education. To this end, it will focus on training in the use of advanced digital tools to optimize the assessment of nutritional status, personalize dietary plans and strengthen disease prevention through predictive analysis of clinical data. As a result, graduates will be trained not only to apply these tools, but also to evaluate their impact and contribute to their development in healthcare settings.



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Do you want to develop personalized nutritional plans based on Artificial Intelligence? With this postgraduate course you will master innovative tools such as Foodvisor and Nutrino to adjust to the needs of your patients”



General Objectives

- ♦ Analyze the applications of Artificial Intelligence in nutrition management and health education
- ♦ Implement technological strategies to optimize the personalization of nutritional care
- ♦ Design innovative educational programs based on data and scientific evidence
- ♦ Use advanced digital tools for patient monitoring and follow-up
- ♦ Develop critical skills to interpret large volumes of health data
- ♦ Apply technological knowledge to improve outcomes in nutritional interventions
- ♦ Identify educational needs in specific populations using AI algorithms
- ♦ Lead projects that integrate Artificial Intelligence with quality healthcare





Specific Objectives

- ♦ Use tools such as Foodvisor and Nutrino to create personalized nutritional plans based on Artificial Intelligence
- ♦ Design innovative resources using platforms such as ChatGPT and Gemini to promote scientific dissemination
- ♦ Master Artificial Intelligence applications in healthcare education, optimizing the creation and presentation of didactic content
- ♦ Explore the future of personalized nutrition and intelligent systems-assisted health education to adapt to new trends



*Are you ready to revolutionize healthcare?
Here you will enjoy the flexibility to learn
100% online and move towards a more
promising professional future. Join an
exceptional program!"*

05

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



“““

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule"

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

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



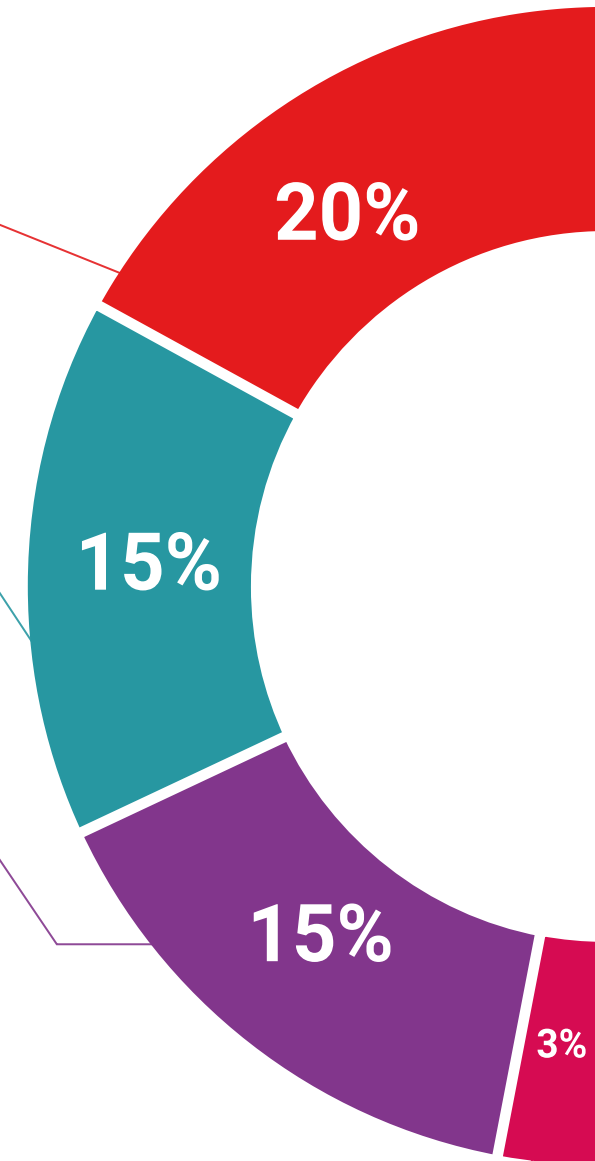
Interactive Summaries

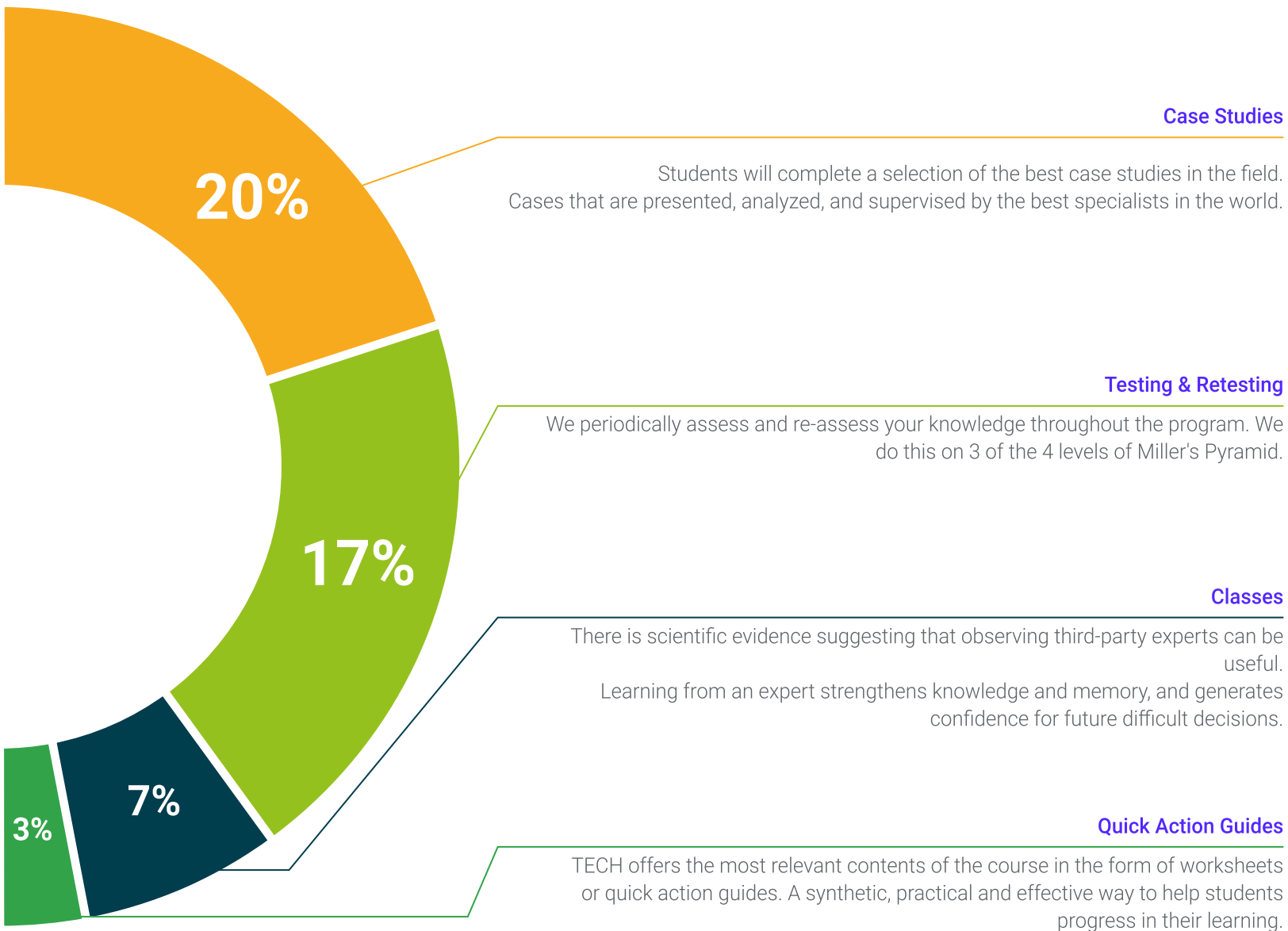
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge. This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06

Teaching Staff

For this academic pathway TECH has assembled a team of experts composed of renowned professionals in the field of health, technology and nutrition. Thanks to their extensive experience, both in the clinical and academic environment, it will be guaranteed that students will receive updated knowledge and practices directly applicable to their work environment. In this regard, the mentors not only stand out as specialists in the use of AI in healthcare settings, but are also committed to effective teaching and academic support.



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TECH's faculty will guarantee you an enriching and highly professional academic experience. Enroll now and boost the development of your critical and strategic skills in Nutrition and Artificial Intelligence!”

Management



Dr. Peralta Martín-Palomino, Arturo

- ♦ CEO and CTO at Prometheus 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
- ♦ Doctorate in Psychology from the University of Castilla La Mancha
- ♦ Doctorate in Economics, Business and Finance from the Camilo José Cela University
- ♦ Doctorate in Psychology from University of Castilla La Mancha
- ♦ Master's Degree in Executive MBA from the Isabel I University
- ♦ Master's Degree in Sales and Marketing Management from the 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



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A unique, crucial and decisive learning experience to boost your professional development"

07 Certificate

This Postgraduate Certificate in Optimizing Nutrition and Health Education with Artificial Intelligence in Nursing guarantees, in addition to the most rigorous and up-to-date program, access to an Postgraduate Certificate diploma issued by TECH Global University.



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*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 diploma for the **Postgraduate Certificate in Optimizing Nutrition and Health Education with Artificial Intelligence in Nursing** 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 Optimizing Nutrition and Health Education with Artificial Intelligence in Nursing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6ECTS**





Postgraduate Certificate
Optimizing Nutrition and
Health Education with Artificial
Intelligence in Nursing

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

Postgraduate Certificate Optimizing Nutrition and Health Education with Artificial Intelligence in Nursing

