

Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine





# Postgraduate Certificate Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Global University

» Accreditation: 6 ECTS

» Schedule: at your own pace

» Exams: online

 $We bsite: {\color{blue} www.techtitute.com/us/artificial-intelligence/postgraduate-certificate/artificial-intelligence-monitoring-maintenance-aesthetic-medicine} \\$ 

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Through this 100% online Postgraduate Certificate, you will manage the most innovative techniques of Artificial Intelligence to optimize the follow-up and maintenance of aesthetic procedures"

# tech 06 | Introduction to the Program

According to a recent report published by the World Health Organization, during the last year there has been a significant increase in the demand for aesthetic interventions due to factors such as the aging of the population. Faced with this situation, Artificial Intelligence is emerging as an instrument for Monitoring and Maintenance in Aesthetic Medicine, since its allowing to adjust therapies in real time and ensure lasting results.

In this context, TECH launches a pioneering Postgraduate Certificate in Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine. Designed by leading experts in this field, the syllabus will delve into subjects ranging from monitoring the evolution of facial treatments with imaging or analyzing the progress of skin scarring to the early identification of adverse effects caused by dermal fillers. At the same time, the syllabus will provide experts with the keys to use state-of-the-art software such as Proven Skincare, VISIA Skin Analysis or Crisalix Volume. In this way, graduates will obtain advanced skills to improve their clinical practices through data analysis and will personalize therapies according to patients' needs.

It should be noted that the methodology of this program emphasizes its innovative nature. TECH offers a 100% online educational environment, which will allow graduates to combine their studies with the rest of their daily obligations. Similarly, the university program is supported by the innovative Relearning teaching system, based on the repetition of key concepts to fix knowledge and facilitate learning. The combination of flexibility and a robust pedagogical approach makes it highly accessible.

This Postgraduate Certificate in Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine contains the most complete and up-to-date program on the market. The most important features include:

- The development of case studies presented by experts in Artificial Intelligence applied to Aesthetic Medicine
- The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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



You will use sophisticated Algorithm Systems to identify patterns and trends to improve the quality of aesthetic treatments"

# Introduction to the Program | 07 tech



You will delve into the ethical and legal considerations associated with the use of Artificial Intelligence in Aesthetic Medicine"

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 experts.

You will master SkinScope LED to analyze skin sensitivity and redness after chemical peels.

Thanks to the revolutionary Relearning methodology, you will integrate all the knowledge in an optimal way to successfully achieve the results you are looking for.







# tech 10 | Why Study 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 syllabus





World's
No.1
The World's largest
online university

# 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.

maximun

employability

guaranteed



### **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 toprated 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.



This Postgraduate Certificate in Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine provides a comprehensive specialization in monitoring post-treatment results and analyzing adherence to aesthetic routines. The didactic contents will provide professionals with the necessary tools to skillfully use state-of-the-art software such as Canfield VECTRA, VISIA Skin Analysis, MirrorMe3D and Crisalix Volume. In this way, graduates will acquire clinical skills to evaluate both facial and body treatments. In addition, the program will include techniques to analyze patient adherence to treatments and manage possible side effects.



# tech 14 | Syllabus

# **Module 1.** Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine

- 1.1. Post-Treatment Results Monitoring
  - 1.1.1. Follow-Up of Evolution in Facial Treatments with Imaging (Canfield VECTRA)
  - 1.1.2. Comparison of Before and After Results in Body Procedures (MirrorMe3D)
  - 1.1.3. Automatic Evaluation of Texture and Tone Improvement after Treatment (VISIA Skin Analysis)
  - 1.1.4. Documentation and Analysis of Skin Healing Progress (SkinIO)
- 1.2. Aesthetic Routine Adherence Analysis
  - 1.2.1. Detection of Adherence to Daily Skin Care Routines (SkinCoach)
  - 1.2.2. Evaluation of Adherence to Aesthetic Product Recommendations (HelloAva)
  - 1.2.3. Analysis of Treatment Habits and Routines according to Lifestyle (Proven Skincare)
  - 1.2.4. Adjustment of Routines Based on Daily Adherence Follow-up (Noom Skin Al)
- 1.3. Detection of Early Adverse Effects
  - 1.3.1. Identification of Adverse Reactions in Dermal Filler Treatments (SkinVision)
  - 1.3.2. Monitoring Inflammation and Post-Treatment Redness (Effaclar AI)
  - 1.3.3. Monitoring Side Effects after Laser Resurfacing Procedures (Fraxel Al)
  - 1.3.4. Early Warning of Post-Inflammatory Hyperpigmentation (DermaSensor)
- 1.4. Long-Term Follow-Up of Facial Treatments
  - 1.4.1. Analysis of the Durability of the Effects of Fillers and Botox (Modiface)
  - 1.4.2. Long-Term Outcome Monitoring of Facelift Procedures (Aesthetic One)
  - 1.4.3. Evaluating Gradual Changes in Facial Elasticity and Firmness (Cutometer)
  - 1.4.4. Follow-Up of Facial Volume Improvements after Fat Grafting (Crisalix Volume)
- 1.5. Control of Implant and Filler Results
  - 1.5.1. Detection of Displacements or Irregularities in Facial Implants (VECTRA 3D)
  - 1.5.2. Volume and Shape Tracking in Body Implants (3D LifeViz)
  - 1.5.3. Analysis of the Durability of Fillers and Their Effect on Facial Contouring (RealSelf Al Volume Analysis)
  - 1.5.4. Evaluation of Symmetry and Proportion in Facial Implants (MirrorMe3D)





# Syllabus | 15 tech

- 1.6. Evaluation of Results in Blemish Treatments
  - 1.6.1. Monitoring Sunspot Reduction after IPL Treatment (Lumenis Al IPL)
  - 1.6.2. Evaluation of Changes in Hyperpigmentation and Skin Tone (VISIA Skin Analysis)
  - 1.6.3. Monitoring the Evolution of Melasma Spots in Specific Areas (Canfield Reveal Imager)
  - 1.6.4. Comparison of Images to Measure Effectiveness of Depigmentation Treatments (Adobe Sensei)
- 1.7. Skin Elasticity and Firmness Monitoring
  - 1.7.1. Measuring Changes in Elasticity after Radiofrequency Treatments (Thermage AI)
  - 1.7.2. Evaluation of Improvement in Firmness after Ultrasound Treatments (Ultherapy)
  - 1.7.3. Monitoring Skin Firmness in the Face and Neck (Cutera Xeo)
  - 1.7.4. Elasticity Monitoring after Use of Creams and Topical Products (Cutometer)
- 1.8. Efficiency Control in Anti-Cellulite Treatments
  - 1.8.1. Cellulite Reduction Analysis in Cavitation Procedures (UltraShape AI)
  - 1.8.2. Evaluation of Texture and Volume Changes after Anti-Cellulite Treatment (VASER Shape)
  - 1.8.3. Monitoring Improvements after Body Mesotherapy Procedures (Body FX)
  - 1.8.4. Comparison of Cellulite Reduction Results with Cryolipolysis (CoolSculpting Al)
- 1.9. Peel Results Stability Analysis
  - 1.9.1. Monitoring Skin Regeneration and Texture after Chemical Peeling (VISIA Complexion Analysis)
  - 1.9.2. Evaluation of Sensitivity and Redness after Peels (SkinScope LED)
  - 1.9.3. Monitoring Post-Peel Blemish Reduction (MySkin Al)
  - 1.9.4. Comparison of Long-Term Results after Multiple Peel Sessions (VISIA Skin Analysis)
- 1.10. Adapting Protocols for Optimal Results
  - 1.10.1. Adjustment of Parameters in Rejuvenation Treatments According to Results (Aesthetic One)
  - 1.10.2. Customization of Post-Treatment Maintenance Protocols (SkinCeuticals Custom D.O.S.E)
  - 1.10.3. Optimization of Time between Sessions of Non-Invasive Procedures (Aysa AI)
  - 1.10.4. Home Care Recommendations Based on Treatment Response (HelloAva)





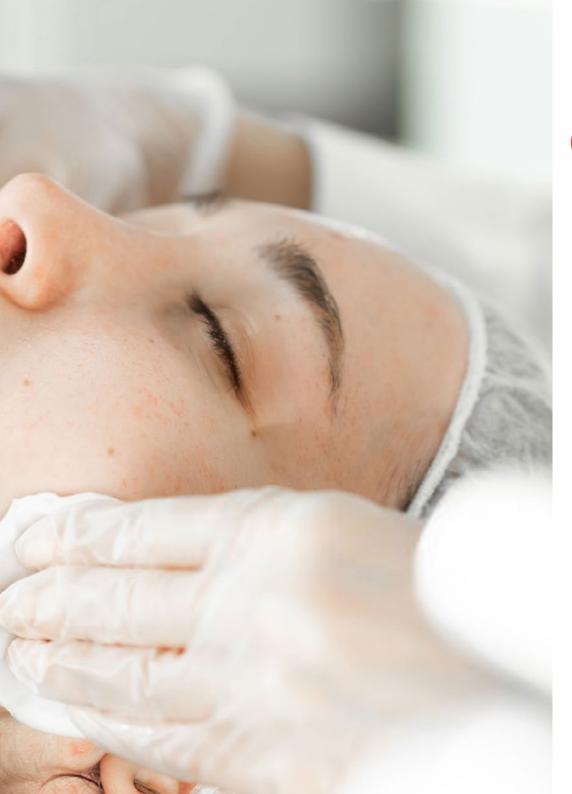
# tech 18 | Teaching Objectives



# **General Objectives**

- Develop advanced skills in the collection, cleaning and structuring of clinical and aesthetic data, ensuring the quality of the information
- Create and train predictive models based on Artificial Intelligence, able to anticipate aesthetic treatment results with high precision and personalization
- Manage specialized 3D simulation software to project potential outcomes of therapies
- Implement AI algorithms to improve accuracy in factors such as skin anomaly detection, sun damage assessment or skin texture
- Design clinical protocols tailored to the individual characteristics of each patient; taking into account their clinical data, environmental factors, and lifestyle
- Apply techniques for anonymization, encryption and ethical management of sensitive data
- Develop strategies to assess and adjust treatments based on the evolution of individuals, using visualization and predictive analytics tools
- Use synthetic data to train Artificial Intelligence models, extending predictive capabilities and respecting patients' privacy
- Adopt emerging Artificial Intelligence techniques to adjust and continuously improve therapeutic plans
- Be able to lead innovation projects, applying advanced technological knowledge to transform the Aesthetic Medicine sector





# Teaching Objectives | 19 tech



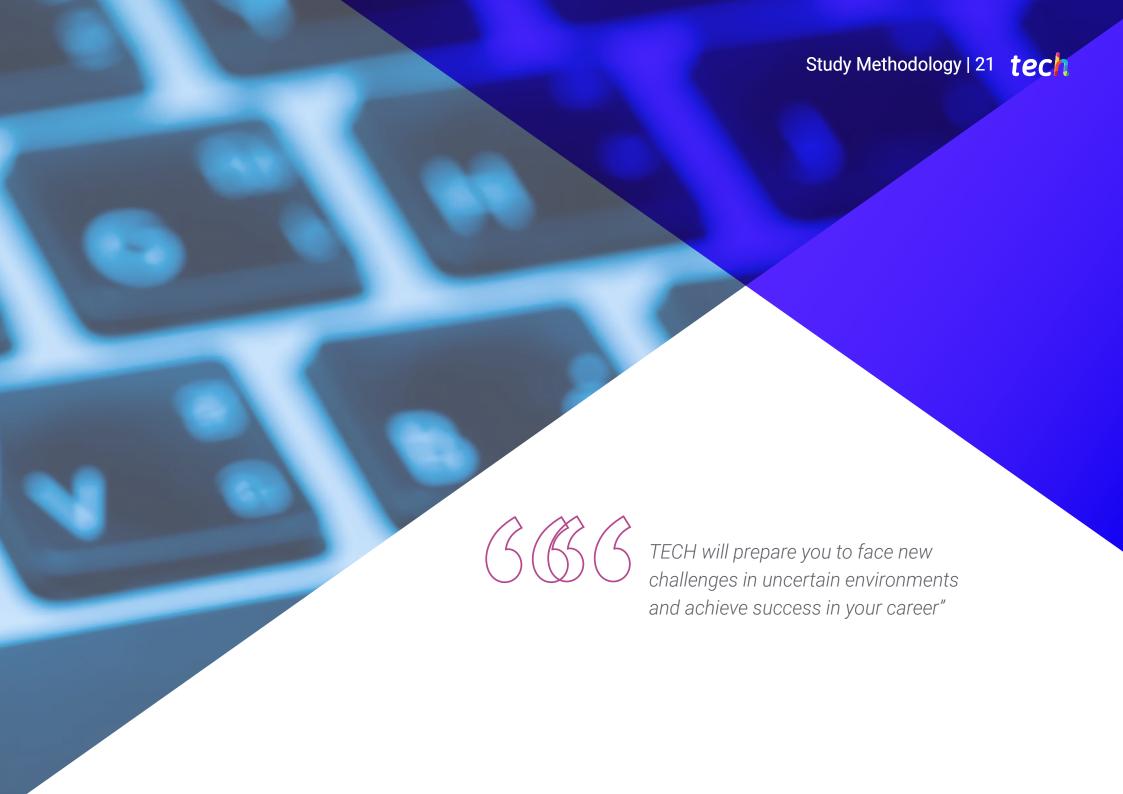
# **Specific Objectives**

- Monitor post-treatment results using advanced data visualization and analysis tools
- Detect early adverse effects and adjust maintenance protocols based on predictive data
- Evaluate adherence to aesthetic routines and make personalized recommendations to optimize long-term outcomes
- Ensure a continuous and documented follow-up of patients' evolution through Artificial Intelligence and interactive dashboards



You will develop advanced skills to analyze patient data using predictive Artificial Intelligence algorithms"



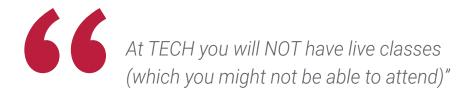


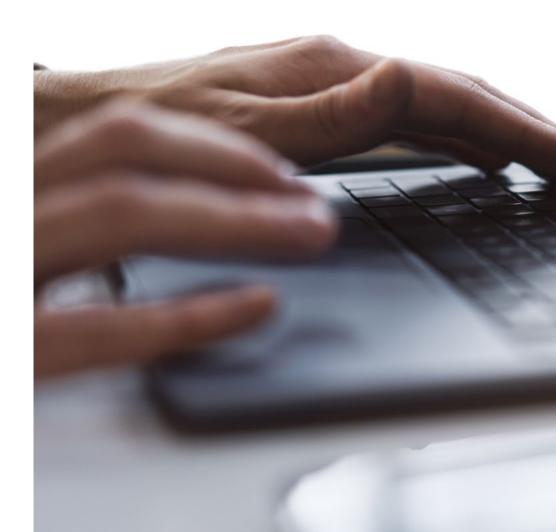
# The student: the priority of all TECH programs

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.









# 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"

# tech 24 | Study Methodology

### 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.



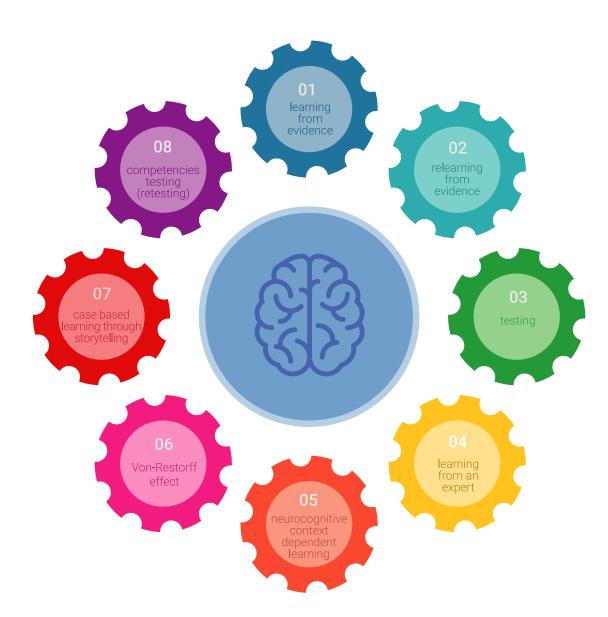
# Relearning Methodology

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.



# tech 26 | Study Methodology

# 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.

# Study Methodology | 27 tech

# 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.

# tech 28 | Study Methodology

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.



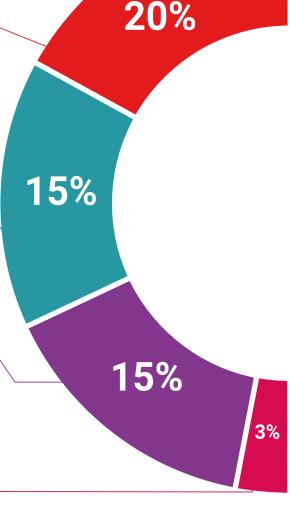
### **Practicing Skills and Abilities**

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.

# **Case Studies**



Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.

# **Testing & Retesting**



We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.

### Classes



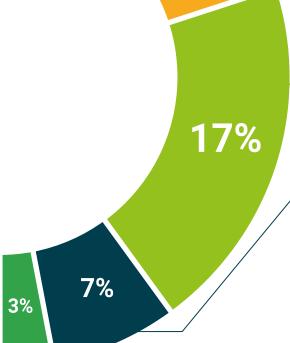
There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an expert strengthens knowledge and memory, and generates confidence for 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.



# 06Teaching Staff

In its strong commitment to provide the most complete and updated university programs in the academic panorama, TECH carries out a rigorous process to form its faculty. As a result, this Postgraduate Certificate brings together the best specialists in the use of Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine. In this way, they have created a variety of didactic materials that stand out for their excellent quality and for adapting to the needs of the labor market. Therefore, graduates will enter into an intensive experience that will broaden their professional horizons.

# tech 32 | Teaching Staff

# 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
- 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

### **Professors**

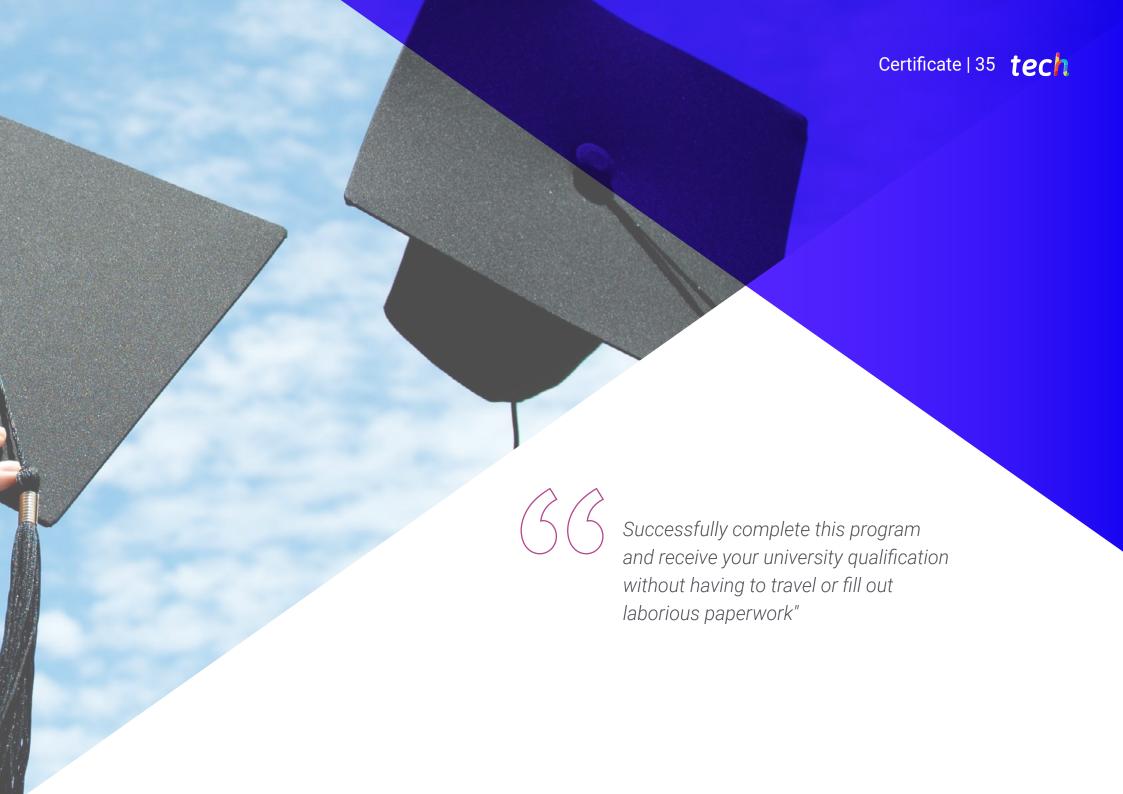
# Mr. Popescu Radu, Daniel Vasile

- Independent Specialist in Pharmacology, Nutrition and Dietetics
- Freelance Producer of Didactic and Scientific Content
- Nutritionist and Community Dietitian
- Community Pharmacist
- Researcher
- Master's Degree in Nutrition and Health from the Open University of Catalonia
- Master's Degree in Psychopharmacology from the University of Valencia
- Pharmacist from the Complutense University of Madrid
- Nutritionist-Dietitian by the European University Miguel de Cervantes

### Mr. Del Rey Sánchez, Alejandro

- Degree in Industrial Organization Engineering
- Certification in Big Data and Business Analytics
- Certification in Microsoft Excel Advanced, VBA, KPI and DAX
- Certification in CIS Telecommunication and Information Systems





# tech 36 | Certificate

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine** 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 Artificial Intelligence for Monitoring and Maintenance in Aesthetic Medicine

Modality: online

Duration: 6 weeks

Accreditation: 6 ECTS



has successfully passed and obtained the title of:

Postgraduate Certificate in Artificial Intelligence
for Monitoring and Maintenance in Aesthetic Medicine

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



<sup>\*</sup>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.

health confidence people information tutors education information teaching guarantee accreditation teaching institutions technology learning



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