Postgraduate Certificate

Personalization and Optimization of Aesthetic Treatments with Artificial Intelligence

tech global university

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Postgraduate Certificate

Personalization and Optimization of Aesthetic Treatments with 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/medicine/postgraduate-certificate/personalization-optimization-aesthetic-treatments-artificial-intelligence**

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01

Introduction

The increasing incorporation of Artificial Intelligence in the field of Aesthetic Medicine has significantly transformed traditional therapeutic approaches. For example, algorithmic systems are able to analyze large volumes of data, identify individual patterns and even propose highly individualized interventions. In order to optimize clinical outcomes, specialists need to master machine learning and predictive analytics techniques to improve the personalization standards of aesthetic therapies. Only in this way will they be able to increase both the precision and safety of their procedures to ensure patient satisfaction. In this framework, TECH is launching an avant-garde university program focused on the individualization of aesthetic plans using Artificial Intelligence. Moreover, it is based on a convenient 100% online format.

Thanks to this 100% online Postgraduate Certificate, you will master the most modern tools of Artificial Intelligence to individualize Aesthetic Treatments and increase their precision considerably"

According to a recent report by the World Health Organization, more than 36% of people globally are dissatisfied with the results of aesthetic treatments due to unmet expectations or lack of adequate customization. Faced with this situation, the incorporation of Artificial Intelligence in the Aesthetic Medicine sector has established itself as a powerful tool for analyzing biometric data and individual patterns that allow aesthetic interventions to be individualized more precisely. Therefore, practitioners need to have a holistic understanding of how this technological tool can be used to optimize clinical outcomes and redefine quality standards in this healthcare sector.

With this in mind, TECH presents an innovative Postgraduate Certificate in Personalization and Optimization of Aesthetic Treatments with Artificial Intelligence. The academic itinerary will delve into areas ranging from skin care regimens or assessment of skin sensitivity of individuals to prediction of results in filler treatments using three-dimensional predictive models. The curriculum will also provide practitioners with the keys to operate state-of-the-art software such as Proven Skincare, Aysa AI or SkinCoach. This will enable experts to optimize the personalization of their interventions according to the unique characteristics of individuals and ensure that their therapies stand out for their high efficiency.

As for the methodology of this university program, it is based on a 100% online modality, facilitating physicians who can plan their own study schedules to experience a completely optimal update. In addition, professionals will enjoy a wide variety of multimedia resources that will enliven their experience, such as explanatory videos or real clinical case studies. To access the Virtual Campus, all they need is a device with Internet access (including their own cell phone).

The **Postgraduate Certificate in Personalization and Optimization of Aesthetic Treatments with Artificial Intelligence** contains the most complete and up-to-date scientific program the market. Its most notable features are:

- 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 the self-assessment process can be carried out 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 design aesthetic interventions based on three-dimensional simulations to rigorously predict the results of facial fillers"

You will delve into the use of MySkin AI to assess both skin sensitivity and thickness, allowing you to safely apply peels"

You will use predictive models to interpret aspects such as skin sensitivity, skin type or reactions to Aesthetic Treatments.

A curriculum based on the revolutionary methodology of TECH, Relearning, which will allow you to consolidate the essential concepts with dynamism.

The program's teaching staff includes professionals from the sector who contribute their work experience to this specializing 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.

02

Syllabus

This Postgraduate Certificate in Personalization and Optimization of Aesthetic Treatments with Artificial Intelligence provides a comprehensive specialization in the use of emerging technological tools. The teaching materials will address the creation of skin care regimens or the simulation of results in fillers to body rejuvenation using state-of-the-art intelligent systems. In addition, the university program will provide graduates with the keys to get the most out of state-of-the-art software such as Body FX AI, Cutera Excel V or Thermage FLX.

You will monitor the results of Hair Therapies through TruScalp AI, guaranteeing its long-term effectiveness"

Module 1. Personalization and Optimization of Aesthetic Treatments with Artificial Intelligence

1.1. Skin Care Regimen Customization
- 1.1.1. Skin Type Analysis and Customized Recommendations (SkinCeuticals Custom D.O.S.E)
- 1.1.2. Skin Sensitivity Assessment and Cosmetic Product Adjustment (Atolla)
- 1.1.3. Diagnosis of Aging Factors for Personalized Anti-Aging Routines (Proven Skincare)
- 1.1.4. Recommendations Based on Climate and Environmental Conditions (HelloAva)

1.2. Optimization of Filler and Botox Treatments
- 1.2.1. Simulation of Filler Results for Specific Facial Areas (Modiface)
- 1.2.2. Adjustment of Botox Doses in Expression Areas according to Facial Analysis (Botox Visualizer)
- 1.2.3. Evaluation of Duration and Effectiveness of Filler Treatments (Crisalix Botox & Filler Simulators)
- 1.2.4. Prediction of Results in Filler Treatments with Advanced AI (Aesthetic Immersion AI)

1.3. Personalization of Anti-Aging Routines
- 1.3.1. Selection of Specific Anti-Aging Active Ingredients and Products (Function of Beauty Anti-Aging)
- 1.3.2. Diagnosis of Wrinkles and Fine Lines to Personalize Creams and Serums (Aysa AI)
- 1.3.3. Optimization of the Concentration of Active Ingredients in Anti-Aging Products (L'Oréal Perso)
- 1.3.4. Routine Adjustment according to the Level of Sun Exposure and Lifestyle (SkinCoach)

1.4. Development of Individualized Protocols for Peelings
- 1.4.1. Evaluation of Skin Sensitivity and Skin Thickness for Peels (MySkin AI)
- 1.4.2. Blemish and Pigmentation Analysis for Selection of Specific Peels (Canfield Reveal Imager)
- 1.4.3. Customization of Chemical Peels according to Skin Type (Skin IO Custom Peels)
- 1.4.4. Simulation of Peel Results and Regeneration Follow-Up (MoleScope AI)

1.5. Optimization of Hyperpigmentation Treatments
- 1.5.1. Analysis of Hyperpigmentation Causes and Selection of Appropriate Treatment (Melanin Analyzer AI)
- 1.5.2. Customization of Intense Pulsed Light (IPL) Blemish Treatments (Syneron Candela IPL)
- 1.5.3. Follow-Up of the Evolution of Hyperpigmentation after Treatment (VISIA Skin Analysis)
- 1.5.4. Predicting Results of Depigmentation with Advanced Artificial Intelligence (SkinCeuticals Pigment Regulator)

1.6. Adaptation of Body Rejuvenation Treatments
- 1.6.1. Body Flaccidity and Firmness Analysis for Body Firming Treatments (InMode BodyTite)
- 1.6.2. Evaluation of Skin Tone and Texture for Skin Rejuvenation Procedures (Cutera Xeo)
- 1.6.3. Customization of Body Radiofrequency to Individual Needs (Thermage FLX)
- 1.6.4. Simulation of Results in Non-Invasive Body Rejuvenation Treatments (CoolSculpting Visualizer)

1.7. Personalization of Rosacea Treatments
- 1.7.1. Diagnosis of the Degree of Rosacea and Personalization of Treatment (Aysa AI for Rosacea)
- 1.7.2. Recommendation of Specific Products and Routines for Rosacea (La Roche-Posay Effaclar AI)
- 1.7.3. Adjustment of Pulsed Light Treatments to Reduce Redness (Lumenis IPL)
- 1.7.4. Follow-Up of Improvements and Adjustment of Protocols in Rosacea Treatment (Cutera Excel V)

1.8. Adjustment in Facial Laser Rejuvenation Protocols
- 1.8.1. Personalization of Fractional Laser Parameters according to Skin Type (Fraxel Dual AI)
- 1.8.2. Energy and Duration Optimization in Laser Resurfacing Treatments (PicoSure AI)
- 1.8.3. Simulation of Results and Post-Treatment Follow-Up (Clear + Brilliant)
- 1.8.4. Evaluation of Improvement in Texture and Tone after Laser Treatments (VISIA Complexion Analysis)

1.9. Adaptation of Body Contouring Procedures
- 1.9.1. Customization of Cryolipolysis Treatments in Specific Areas (CoolSculpting AI)
- 1.9.2. Optimization of Parameters in Focused Ultrasound Treatments (Ultherapy)
- 1.9.3. Fine-Tuning Body Contouring Radiofrequency Procedures (Body FX AI)
- 1.9.4. Simulation of Results in Non-Invasive Body Contouring (SculpSure Consult)

1.10. Personalization of Hair Regeneration Treatments
- 1.10.1. Evaluation of the Degree of Alopecia and Personalization of Hair Treatment (HairMetrix)
- 1.10.2. Optimization of Density and Growth in Hair Transplants (ARTAS iX Robotic Hair Restoration)
- 1.10.3. Simulation of Hair Growth in Treatments with PRP (TruScalp AI)
- 1.10.4. Monitoring the Response to Hair Mesotherapy Therapies (Keeps AI)

You will increase your knowledge with the support of multimedia resources in formats such as explanatory videos, interactive summaries or readings based on the latest scientific evidence”

03

Teaching Objectives

Through this university program, doctors will use the most sophisticated techniques of Artificial Intelligence applied to the Personalization and Optimization of Aesthetic Treatments. In this sense, graduates will develop advanced technical skills to manage the analysis of biometric data, handle cutting-edge predictive technologies and even simulate the results of aesthetic interventions. They will also be able to design individualized protocols in areas such as facial rejuvenation, skin care and hair treatments.

You will diagnose skin conditions such as Rosacea early, recommending the most appropriate products to address them"

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

Specific Objectives

- Design personalized treatments tailored to the unique characteristics of each patient, integrating clinical analysis and external factors
- Optimize filler, peel and rejuvenation procedures based on predictive simulations
- Adjust skin care routines according to individual needs and environmental conditions
- Implement innovative protocols to maximize efficacy and satisfaction in aesthetic results

The Virtual Campus will be available to you 24 hours a day, and you can access it at the time that suits you best. Enroll now!"

04

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.

"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.

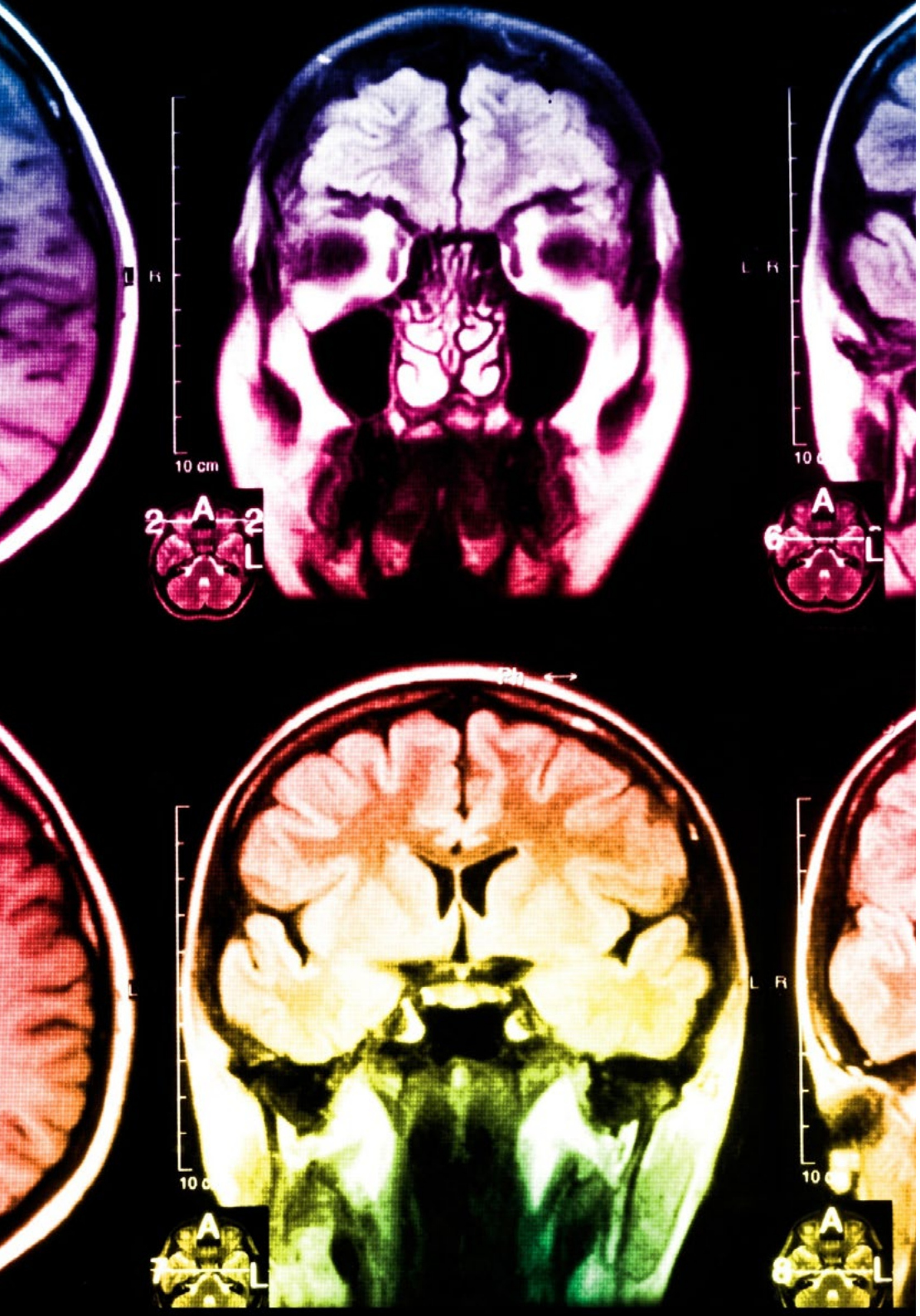
In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

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.

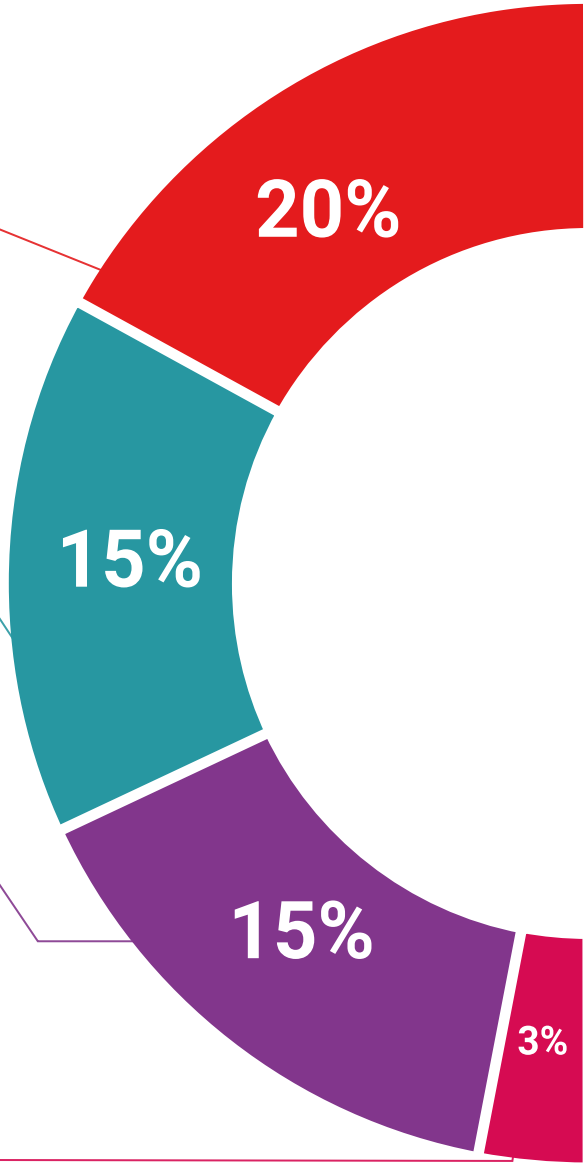
Interactive Summaries

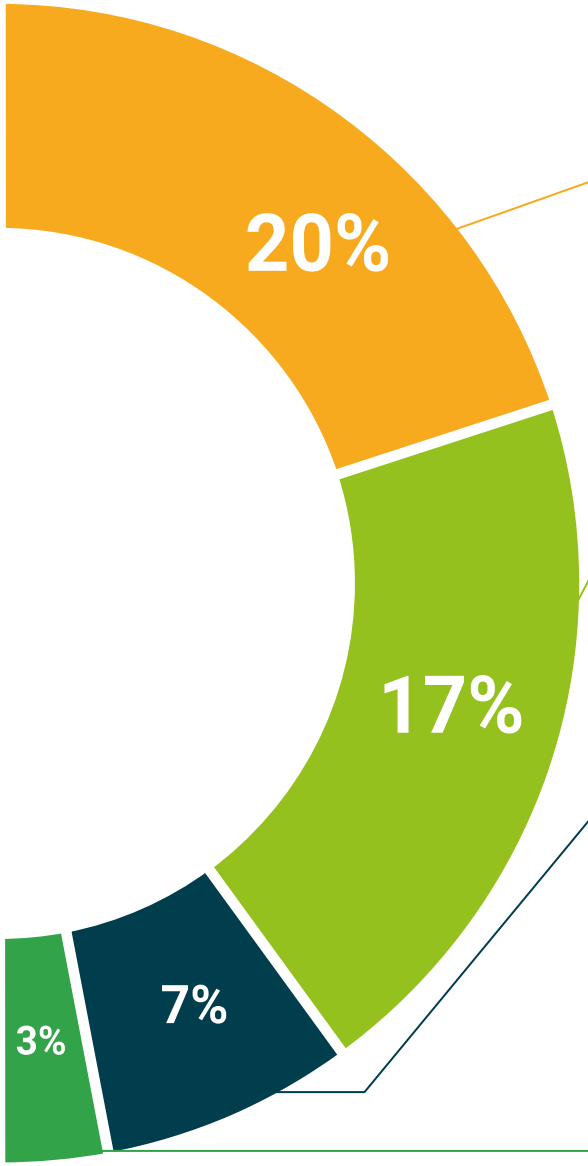
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.





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.

05

Teaching Staff

TECH's fundamental premise is to make available to anyone the most complete and updated university programs in the academic panorama, so it rigorously selects its teaching staff. As a result of this process, this Postgraduate Certificate has the participation of renowned specialists in the Personalization and Optimization of Aesthetic Treatments with Artificial Intelligence. As a result, they have designed didactic materials characterized by their high quality and by adjusting to the needs of the current labor market. In this way, graduates will embark on an immersive experience that will significantly improve their daily clinical practice.

You will have the full support of the teaching team, composed of experienced professionals in Personalization and Optimization of Aesthetic Treatments with Artificial Intelligence"

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

- In Charge of Implementing Programs to Improve Tactical Emergency Care
- 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

Ms. Del Rey Sánchez, Cristina

- Talent Management Administrator at Securitas Seguridad España, S.L.
- Extracurricular Activities Center Coordinator
- Support classes and pedagogical interventions with Primary and Secondary Education students.
- Postgraduate in Development, Delivery and Tutoring of e-Learning Training Actions
- Postgraduate in Early Childhood Care
- Degree in Pedagogy from the Complutense University of Madrid

06

Certificate

The Postgraduate Certificate in Personalization and Optiamization of Aesthetic Treatments with 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 Personalization and Optiamization of Aesthetic Treatments with 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 Personalization and Optiamization of Aesthetic Treatments with 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 Personalization and Optimization of Aesthetic Treatments with 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

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. 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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