

Postgraduate Certificate Visual Analysis Process (KEIM)





Postgraduate Certificate Visual Analysis Process (KEIM)

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online
- » Target Group: graduates or professionals of any specialty who want to be qualified in the application of data visualization technologies, Big Data and artificial intelligence for the development, boost or change of direction of their professional career

Website: www.techtute.com/us/school-of-business/postgraduate-certificate/visual-analysis-process-keim

Index

01

Welcome

p. 4

02

Why Study at TECH?

p. 6

03

Why Our Program?

p. 10

04

Objectives

p. 14

05

Structure and Content

p. 18

06

Methodology

p. 24

07

Our Students' Profiles

p. 32

08

Course Management

p. 36

09

Impact on Your Career

p. 42

10

Benefits for Your Company

p. 46

11

Certificate

p. 50

01 Welcome

The visual analysis process is currently present in every company, regardless of its size. This intensive program is an introduction to the conceptual principles of the visualization discipline. Throughout this specialization program, students will be able to carry out Storytelling to understand how to represent data and elaborate their visual representations.

Students will also understand the different types of reports: strategic, operative and management, as well as the types of charts and their function with a clear objective to put themselves in the role of the message receiver in order to make them understand that the receiver's vision should be the most important one when creating data visualization.



Postgraduate Certificate in Visual Analysis Process (KEIM).
TECH Global University



“

Learn how to practice storytelling to understand how to present data and its visual representations”

02

Why Study at TECH?

TECH is the world's largest 100% online business school. It is an elite business school, with a model based on the highest academic standards. A world-class centre for intensive managerial skills training.



“

TECH is a university at the forefront of technology, and puts all its resources at the student's disposal to help them achieve entrepreneurial success"

At TECH Global University



Innovation

The university offers an online learning model that combines the latest educational technology with the most rigorous teaching methods. A unique method with the highest international recognition that will provide students with the keys to develop in a rapidly-evolving world, where innovation must be every entrepreneur's focus.

"Microsoft Europe Success Story", for integrating the innovative, interactive multi-video system.



The Highest Standards

Admissions criteria at TECH are not economic. Students don't need to make a large investment to study at this university. However, in order to obtain a qualification from TECH, the student's intelligence and ability will be tested to their limits. The institution's academic standards are exceptionally high...

95% | of TECH students successfully complete their studies



Networking

Professionals from countries all over the world attend TECH, allowing students to establish a large network of contacts that may prove useful to them in the future.

100,000+
executives trained each year

200+
different nationalities



Empowerment

Students will grow hand in hand with the best companies and highly regarded and influential professionals. TECH has developed strategic partnerships and a valuable network of contacts with major economic players in 7 continents.

500+ | collaborative agreements with leading companies



Talent

This program is a unique initiative to allow students to showcase their talent in the business world. An opportunity that will allow them to voice their concerns and share their business vision.

After completing this program, TECH helps students show the world their talent.



Multicultural Context

While studying at TECH, students will enjoy a unique experience. Study in a multicultural context. In a program with a global vision, through which students can learn about the operating methods in different parts of the world, and gather the latest information that best adapts to their business idea.

TECH students represent more than 200 different nationalities.

TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:



Analysis

TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



Academic Excellence

TECH offers students the best online learning methodology. The university combines the Relearning method (a postgraduate learning methodology with the highest international rating) with the Case Study. A complex balance between tradition and state-of-the-art, within the context of the most demanding academic itinerary.



Economy of Scale

TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a groundbreaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another university.



Learn with the best

In the classroom, TECH's teaching staff discuss how they have achieved success in their companies, working in a real, lively, and dynamic context. Teachers who are fully committed to offering a quality specialization that will allow students to advance in their career and stand out in the business world.

Teachers representing 20 different nationalities.



At TECH, you will have access to the most rigorous and up-to-date case studies in the academic community"

03

Why Our Program?

Studying this TECH program means increasing the chances of achieving professional success in senior business management.

It is a challenge that demands effort and dedication, but it opens the door to a promising future. Students will learn from the best teaching staff and with the most flexible and innovative educational methodology.



“

We have highly qualified teachers and the most complete syllabus on the market, which allows us to offer you training of the highest academic level"

This program will provide students with a multitude of professional and personal advantages, particularly the following:

01

A significant career boost

By studying at TECH, students will be able to take control of their future and develop their full potential. By completing this program, students will acquire the skills required to make a positive change in their career in a short period of time.

70% of participants achieve positive career development in less than 2 years.

02

Develop a strategic and global vision of companies

TECH offers an in-depth overview of general management to understand how each decision affects each of the company's different functional areas.

Our global vision of companies will improve your strategic vision.

03

Consolidate the student's senior management skills

Studying at TECH means opening the doors to a wide range of professional opportunities for students to position themselves as senior executives, with a broad vision of the international environment.

You will work on more than 100 real senior management cases.

04

Take on new responsibilities

The program will cover the latest trends, advances and strategies, so that students can carry out their professional work in a changing environment.

45% of graduates are promoted internally.

05

Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

You will find a network of contacts that will be instrumental for professional development.

06

Thoroughly develop business projects

Students will acquire a deep strategic vision that will help them develop their own project, taking into account the different areas in companies.

20% of our students develop their own business idea.

07

Improve soft skills and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.

08

Be part of an exclusive community

Students will be part of a community of elite executives, large companies, renowned institutions, and qualified professors from the most prestigious universities in the world: the TECH Global University community.

We give you the opportunity to train with a team of world renowned teachers.

04

Objectives

This program is designed to strengthen Visual Analysis Process (KEIM) skills, as well as develop new competencies and skills that will be essential in the students' professional development. After the program, the professional will be able to make global decisions with an innovative perspective and an international vision.



“

A stimulating professional growth journey designed to keep you interested and motivated throughout the program"

TECH makes the goals of their students their own goals too.

Working together to achieve them.

This Postgraduate Certificate in Visual Analysis Process (KEIM) qualifies students to:

01

Understand how patterns found in a data set can be made visible in order to generate a common interpretation of the underlying reality

02

Understand the scalability of individual representations





03

Understand the difference between Visual Analytics and information visualization

04

Understand the process of KEIM's visual analysis

05

Structure and Content

This Postgraduate Certificate in Visual Analysis Process (KEIM) a high level, entirely online program, which aims to enable students to learn quickly and efficiently, choosing the time and place that best suits their availability, schedules and interests. A program that takes place over 6 weeks and is intended to be a unique and stimulating experience that lays the foundation for your professional success.



“

Learn first-hand about the legal aspects of user privacy and users' right to protect their data”

Syllabus

This Postgraduate Certificate in Visual Analysis Process (KEIM) from TECH Global University is an intensive program that prepares students to face challenges and business decisions in the field of Master Leads.

The content of this Postgraduate Certificate in Visual Analysis Process (KEIM) is designed to promote the development of managerial skills that enable more thorough decision-making in uncertain environments.

Over the course of 180 hours, the student analyzes a plethora of practical cases through individual and teamwork. It is, therefore, an authentic immersion in real business situations.

This Postgraduate Certificate deals, in-depth, with the world of information technology in the business environment, and is designed to provide professionals with an understanding Visual Analysis Process (KEIM) a strategic, international and innovative perspective.

A plan designed for the professional, focused on their professional improvement and that will prepare them to achieve excellence in the field of management and business management. A program that understands your needs and those of your company through innovative content based on the latest trends, and supported by the best educational methodology and an exceptional faculty, which will provide you with the competencies to solve critical situations in a creative and efficient way.

This Postgraduate Certificate in is spread out over 6 weeks and is divided into 1 module:

Module 1

Interactive Visualization of Data



Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Certificate in Visual Analysis Process (KEIM) completely online. Over the course of 6 weeks, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

A unique, key, and decisive educational experience to boost your professional development and make the definitive leap.

Module 1. Interactive Visualization of Data

| | | | |
|---|--|--|--|
| 1.1. Introduction to the Art of Making Data Visible | 1.2. How to Perform Storytelling with Data | 1.3. Data Representation | 1.4. Scalability of Visual Representations |
| 1.5. Visual Analytics vs. Information Visualization. Understanding That It's Not The Same Thing | 1.6. Visual Analysis Process (KEIM) | 1.7. Strategic, Operative and Managerial Reports | 1.8. Types of Graphs and Their Application |
| 1.9. Interpretation of Reports and Graphs. Playing the Role of the Receiver | 1.10. Evaluation of Visual Analytics Systems | | |



Obtain basic knowledge to achieve an insight into the relevance of Marketing in any company's strategy"



06

Methodology

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

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





“

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

TECH Business School uses the Case Study to contextualize all content

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

“

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



This program prepares you to face business challenges in uncertain environments and achieve business success.



A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and business reality is taken into account.

“

You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments”

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

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

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

Relearning Methodology

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

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

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

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

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



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

With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

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

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

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



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



Study Material

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

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



Classes

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

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



Management Skills Exercises

They will carry out activities to develop specific executive competencies in each thematic area. Practices and dynamics to acquire and develop the skills and abilities that a high-level manager needs to develop in the context of the globalization we live in.



Additional Reading

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





Case Studies

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



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



Testing & Retesting

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



07

Our Students' Profiles

This Postgraduate Certificate is aimed at professionals who want to become qualified in the application of data visualization technologies, Big Data and artificial intelligence for the development, promotion or change of direction of their professional career.

This program uses a multidisciplinary approach as the students have a diverse set of academic profiles and represent multiple nationalities.

This Postgraduate Certificate is also open to professionals who, being university graduates in any field, have two years of work experience in the field of Master Leads.





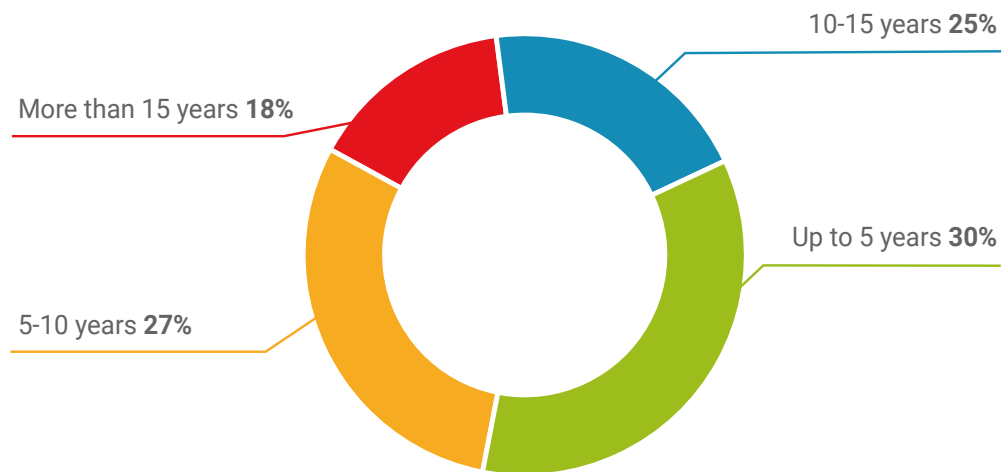
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*A comprehensive and multidisciplinary program
that will allow you to excel in your career”*

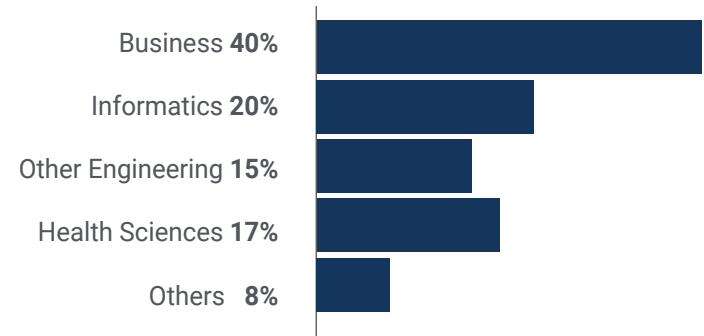
Average Age

Between **35** and **45** years old

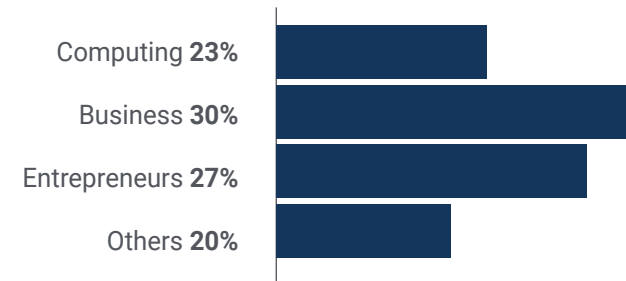
Years of Experience



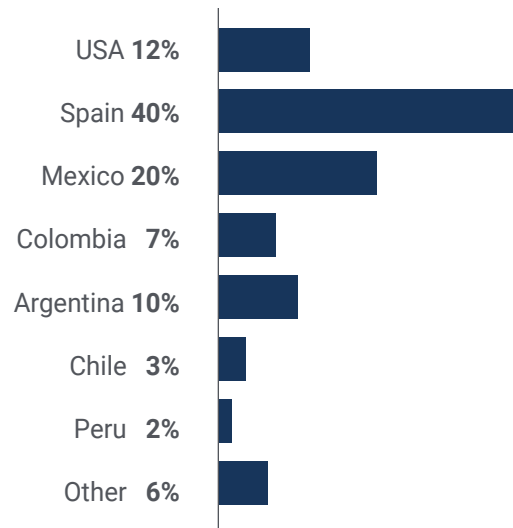
Training



Academic Profile



Geographical Distribution



Manuel Rodríguez

Visual Analytics and Big Data Expert

"Specializing in Visual Analytics has been the best career decision I could have made. I currently hold a very important position in my company, and this is thanks to the specialization that TECH offers in this field. The content quality is exceptional, and the teaching staff is a real luxury, made up of renowned professionals"

08

Course Management

This Postgraduate Certificate has a highly qualified team with extensive experience in the sector, which will offer the best tools for students to develop their skills during the program. A teaching staff of industry professionals will invest their theoretical and practical knowledge to lead you to the highest level of expertise. In this way, students have the guarantees they need to specialize at an international level in a booming sector that will catapult them to professional success.



“

A syllabus that will show you all aspects of Visual Data Analysis, developed along topics prepared to make you in control of the subject”

International Guest Director

Recognized as one of the best experts in Data Science by Forbes magazine, Robert Morgan is a distinguished mathematician highly specialized in the field of Computational Statistics. His extensive knowledge in this field has allowed him to be part of international reference institutions, such as the multinational Unilever.

In this way, he has led the Data Science strategy at a global level. In this sense, he has supervised multiple projects that use advanced analysis to optimize the strategic operations of companies. Among his major achievements, he has improved the shopping experience of multiple customers by offering them personalized product recommendations based on their preferences. As a result, it has enabled users to establish loyal relationships with brands. It has also employed Digital Twins in the manufacturing network, managing to monitor soap production in real time and significantly improving its quality.

Moreover, his philosophy focuses on the use of data systems to solve complex problems in the business environment and drive innovation. In the same vein, in his spare time he develops software and participates in open source projects. As such, he stays at the forefront of the latest trends in subjects such as Bayesian Statistics, Big Data or Artificial Intelligence, among others.

In addition, his work has been rewarded on multiple occasions in the form of awards. For example, he recently received the "Business Achievement" award from Unilever for his contribution to the digital transformation of the company. In this regard, it is worth noting that the integration of technologies has enabled companies to improve their operational efficiency by automating repetitive tasks. This has considerably reduced human errors in the logistics chain, resulting in both time and cost savings.



Mr. Morgan, Robert

- Global Director of Data Science at Unilever in New York, United States
- Head of Analytics and Data Science at Dunnhumby, New York
- Statistician at Unilever, New York
- M.Sc. in Computational Statistics from Bath University
- M.Sc. in Statistical Research from Bristol University
- B.Sc. in Mathematics, Cardiff University
- Certificate in Statistical Learning from Stanford University
- Certificate in Programming from Johns Hopkins University

“

Thanks to TECH, you will be able to learn with the best professionals in the world”

Management



Mr. Galindo, Luis Ángel

- ♦ Senior High Performance Consultant with 16 years of experience
- ♦ Definition, development and implementation of a successful open innovation model, with +10% year-on-year revenue growth leveraged on innovative assets
- ♦ Definition, development and implementation of successful Digital Transformation Programs for more than 8 years and 700+ people leading a pioneering role in the industry
- ♦ Implementation of from 20+ complex consulting projects worldwide for large companies in artificial intelligence, economic intelligence, cybersecurity, business development, digital transformation, risk assessment, process optimization and people management
- ♦ Expert in understanding customers and translating their needs into actual sales



Professors

Ms. Olmedo, Asunta

- ◆ Creative Publicist Consultant UX Writing and Graphic Design
- ◆ Communication Technician Advertising and PP. National Institute of Specialized Techniques
- ◆ Master's Degree in Graphic Design Tracor Training Center
- ◆ Community Manager Course (Community Manager Institute)
- ◆ UX and Usability Course (MiriadaX, Coursea, Factor Ideas)
- ◆ Freelancer for consulting firms, agencies and studios
- ◆ Courses and workshops for Telefónica and the CAM
- ◆ Collaboration with different marketing and design companies (Imaginamass, Mibizpartners, WinWin consultants, We are Bold, Muebles Toscana, TeveoOnline, Bip Informáticos, The Mars Society, etc.)
- ◆ Copywriter in national and multinational advertising agencies, among other accounts: Santander Bank, Buena Vista, Canon, Coca-Cola, Maphre, Asisa, Prosegur, Camel, Ayuda en Acción, Casino Gran Madrid, La Razón, Amex, Airis, Rainbow

09

Impact on Your Career

TECH is aware that studying a program like this entails great economic, professional and, of course, personal investment. The ultimate goal of this great effort should be to achieve professional growth. And with this educational center, professionals will find excellent opportunities to achieve this. For this, we have the perfect equation for a quality specialization: a highly up to date syllabus and internationally renowned teachers. Undoubtedly, a unique opportunity that will help you give a boost to your career in a short time.



“

Learn with the best and acquire the knowledge and skills you need to intervene in this area of development with total success"

Are you ready to take the leap? Excellent professional development awaits you.

With this program you will be able to drastically advance in your profession, although there is no doubt that, in order to do professionals in so, you will have to make an investment in different areas, such as the economic, professional and personal ones.

However, the goal is to improve their professional life and, to do so, it is necessary to fight.

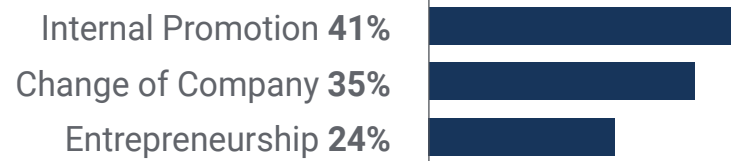
A stimulating professional growth journey designed to keep you interested and motivated throughout the program.

The best way to achieve professional change is to increase your skills. So don't stop studying at TECH.

When the change occurs



Type of change



Salary increase

This program represents a salary increase of more than **25.22%** for our students



10

Benefits for Your Company

This Postgraduate Certificate in Visual Analysis Process (KEIM) contributes to elevate organizations' talent to its maximum potential through the preparation of high level leaders.

Participating in this Postgraduate Certificate is a unique opportunity to access a powerful network of contacts in which to find future professional partners, customers or suppliers.





“

Thanks to this program, you will receive a large number of job offers with which you will be able to start your professional growth”

Developing and retaining talent in companies is the best long-term investment.

01

Intellectual Capital and Talent Growth

The professional will introduce the company to new concepts, strategies, and perspectives that can bring about significant changes in the organization.

02

Retaining high-potential executives to avoid talent drain

This program strengthens the link between the company and the professional and opens new avenues for professional growth within the company.

03

Building agents of change

Students will be able to make decisions in times of uncertainty and crisis, helping the organization to overcome obstacles.

04

Increased international expansion possibilities

Thanks to this program, the company will come into contact with the main markets in the world economy.



05

Project Development

Professionals can work on a real project or develop new projects in the field of R&D or Business Development of your company.

06

Increased competitiveness

This Postgraduate Certificate will equip your professionals with the skills to take on new challenges and thus drive the organization forward.

11 Certificate

This Postgraduate Certificate in Visual Analysis Process (KEIM) 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 program will allow you to obtain your **Postgraduate Certificate in Visual Analysis Process (KEIM)** 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.

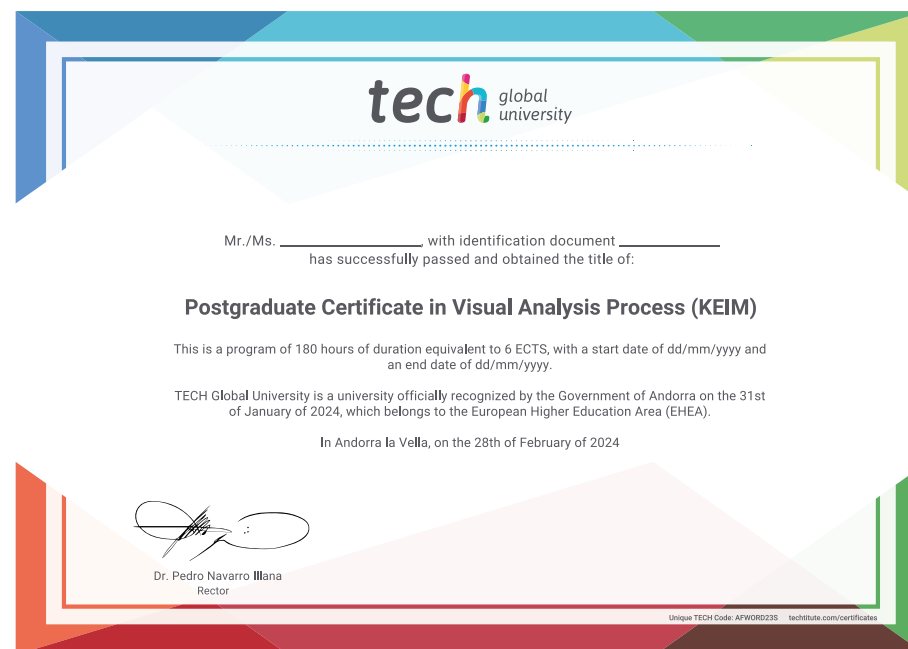
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Visual Analysis Process (KEIM)**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**



*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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