

Postgraduate Certificate Introduction to Statistics





Postgraduate Certificate Introduction to Statistics

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Official N° of Hours: **150 h.**

Website: www.techtute.com/information-technology/postgraduate-certificate/introduction-statistics

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

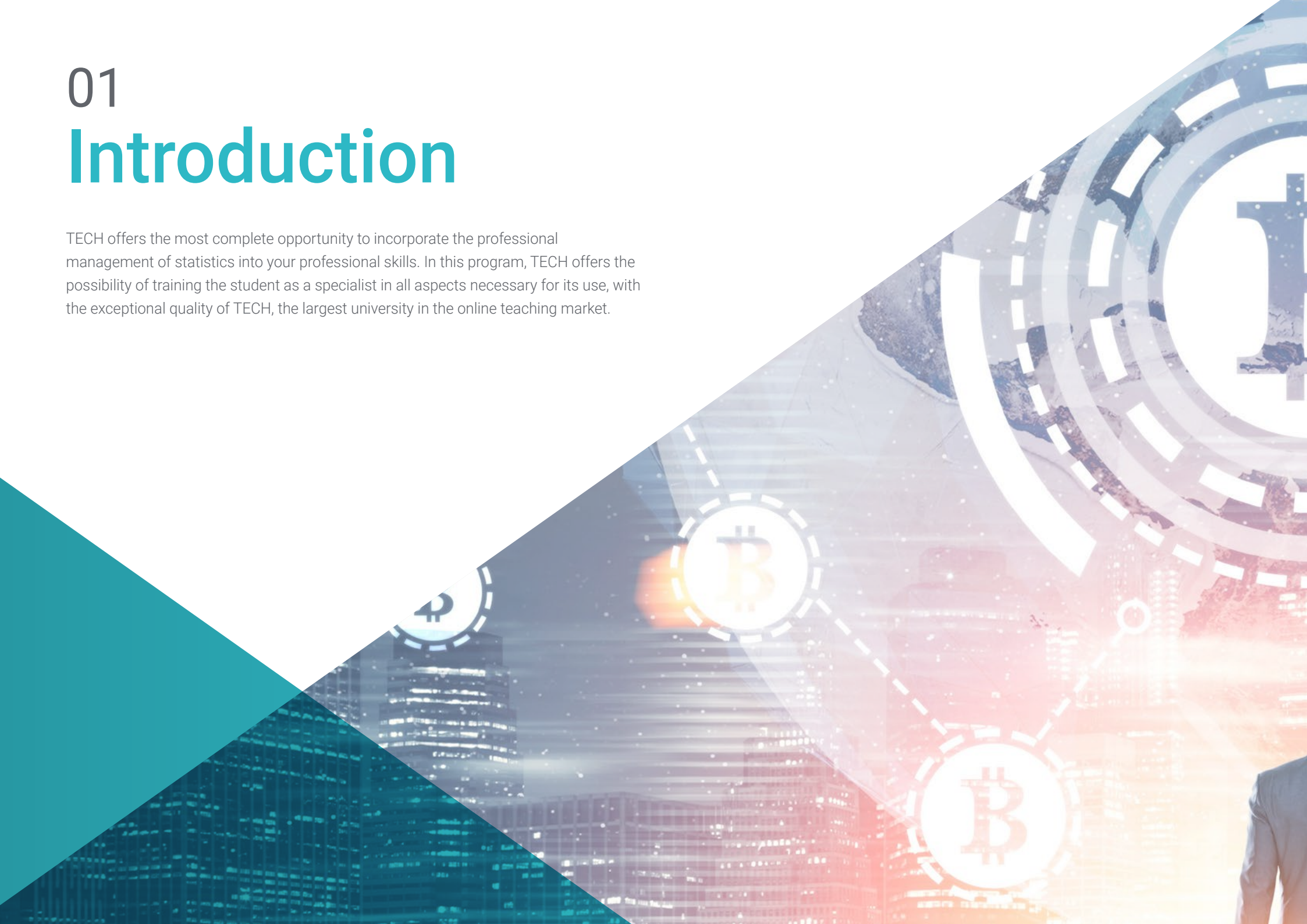
Certificate

p. 28

01

Introduction

TECH offers the most complete opportunity to incorporate the professional management of statistics into your professional skills. In this program, TECH offers the possibility of training the student as a specialist in all aspects necessary for its use, with the exceptional quality of TECH, the largest university in the online teaching market.



“

Learn with us about the introductory concepts of statistics and its reasoning, through the highest quality teaching on the educational market"

We live in a 'Data Society' where data provides us with the value to define the most appropriate strategy. Statistics is the basic science for learning from data. Analyze the data produced and draw conclusions using statistical tools to make the most appropriate decisions at all times.

In this module, students will learn the introductory concepts of statistics; statistical reasoning; representing relationships between different variables.

We will focus on the principles of probability that are the basis for inferential statistics, which will help students to contrast conjectures (hypothesis contrasts) on how a certain population is.

Finally, it will be shown how regression analysis is one of the most widely used techniques for the detection of patterns in large volumes of data.

This **Postgraduate Certificate in Introduction to Statistics** contains the most complete and up-to-date educational program on the market. The most important features of the training include:

- ◆ Practical case studies presented by experts
- ◆ The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- ◆ Practical exercises where 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



A complete update that will provide you with the working capacity of a specialist in the field"

02 Objectives

The objectives of this Postgraduate Certificate were established with a basis on realistic and necessary goals for a professional in the sector. Gradually, students will be able to verify their learning and progress in the mastery of the contents so that, at the end, they will have finished a complete process of professional growth



“

Realistic, achievable and high-impact goals for your professional education”



General Objectives

- ◆ Analyze the data produced and draw conclusions from them using statistical tools.
- ◆ Learn the introductory concepts of statistics
- ◆ Knowledge of the principles of probability

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A stimulating professional growth journey designed to keep you interested and motivated throughout the training”





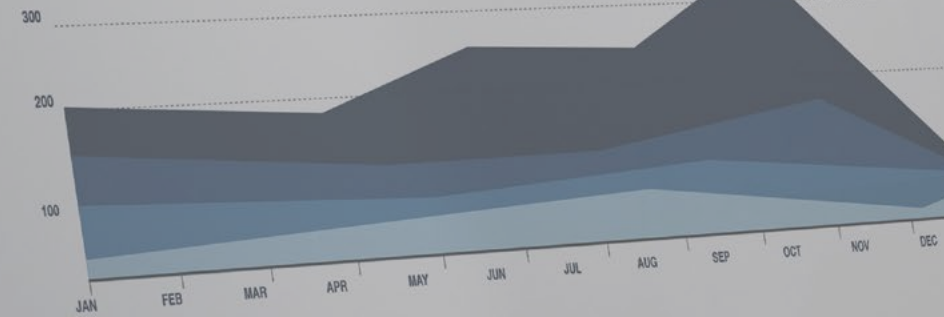
Specific Objectives

- ◆ Know the different theories for data analysis and interpretation
- ◆ Identify the most common descriptors for a dataset
- ◆ Understand and evaluate the applicability of different descriptors to an existing dataset
- ◆ Learn about hypothesis testing and its applicability to the world of data analysis
- ◆ Learn how to interpret the different existing regression techniques

03

Course Management

Within the quality criteria that we apply in all our programs, this program represents an opportunity to learn from the best, with a teaching staff made up of professionals in the sector who will invest their theoretical and practical knowledge to take you to the highest level of training With the latest and most effective teaching methods on the online teaching market.



Ready



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

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 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. Cordero García, Marta

- ◆ University Professor, Polytechnic School of Madrid
- ◆ Aerospace Engineering Department: Mathematics Applied to Aerospace Engineering

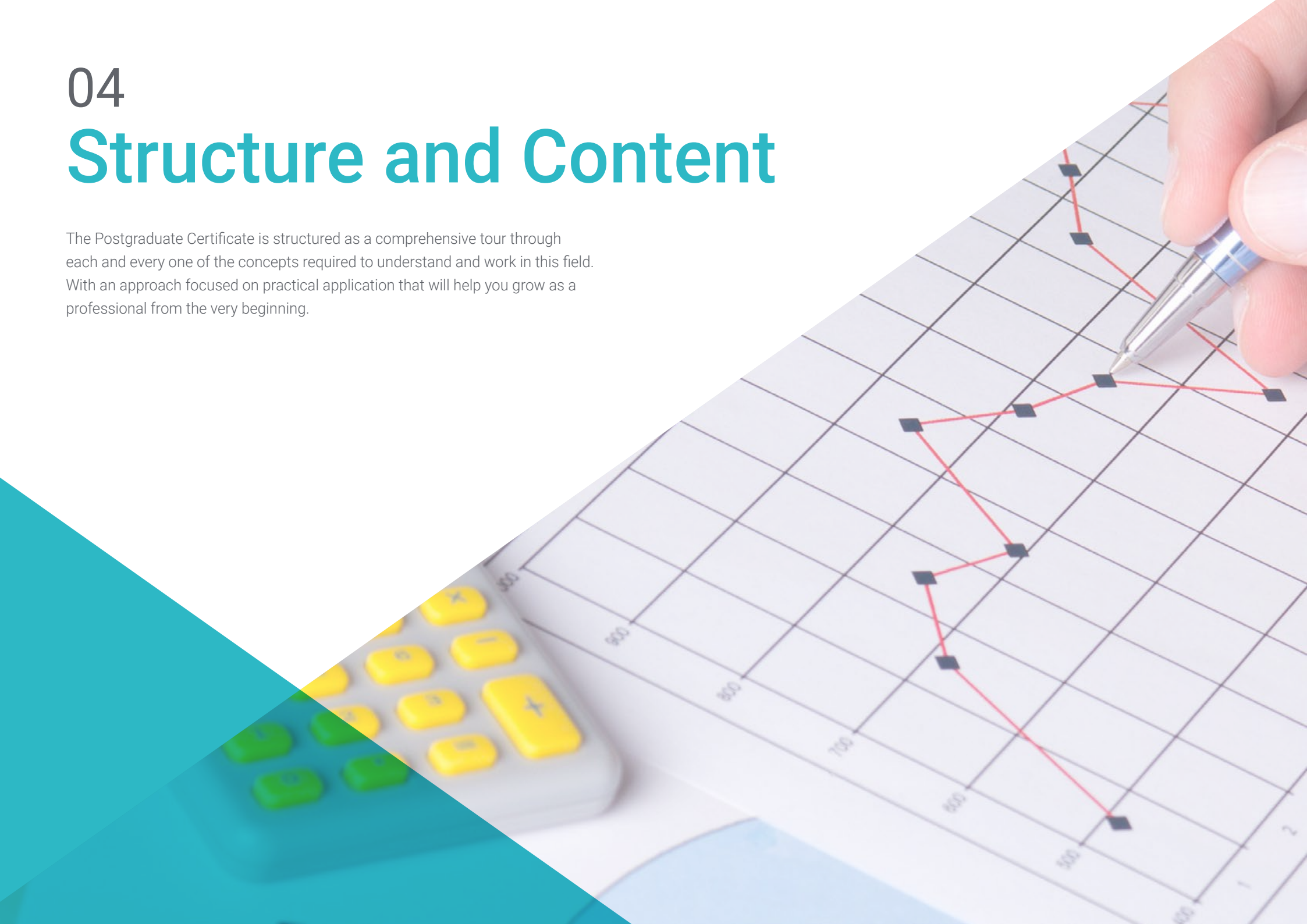
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*Update your knowledge
through the University
Course in Skin Microbiota”*

04

Structure and Content

The Postgraduate Certificate is structured as a comprehensive tour through each and every one of the concepts required to understand and work in this field. With an approach focused on practical application that will help you grow as a professional from the very beginning.





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A comprehensive syllabus focused on acquiring knowledge and converting it into real skills, created to propel you to excellence"

Module 1. Data Analysis and Interpretation

- 1.1. Introduction to Statistics
- 1.2. Measures Applicable to the Processing of Information
- 1.3. Statistical Correlation
- 1.4. Theory of Conditional Probability
- 1.5. Random Variable and Probability Distribution
- 1.6. Bayesian Inference
- 1.7. Sample Theory
- 1.8. Confidence Intervals
- 1.9. Hypothesis Testing
- 1.10. Regression Analysis





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This program is the key to advancing your career, don't miss this opportunity”

05 Methodology

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

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





“

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

Case Study to contextualize all content

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

“

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



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



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

A learning method that is different and innovative

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

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

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

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

Relearning Methodology

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

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

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

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

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



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

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

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

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

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



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



Study Material

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

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



Classes

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

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



Practising Skills and Abilities

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



Additional Reading

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





Case Studies

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



Interactive Summaries

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

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



Testing & Retesting

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



06 Certificate

The Postgraduate Certificate in Introduction to Statistics guarantees, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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Successfully complete this program and receive your university certificate without travel or laborious paperwork"

This **Postgraduate Certificate in Introduction to Statistics** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: **Postgraduate Certificate in Introduction to Statistics**

Official N° of Hours: **150 h.**



*Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development languages
virtual classroom



Postgraduate Certificate Introduction to Statistics

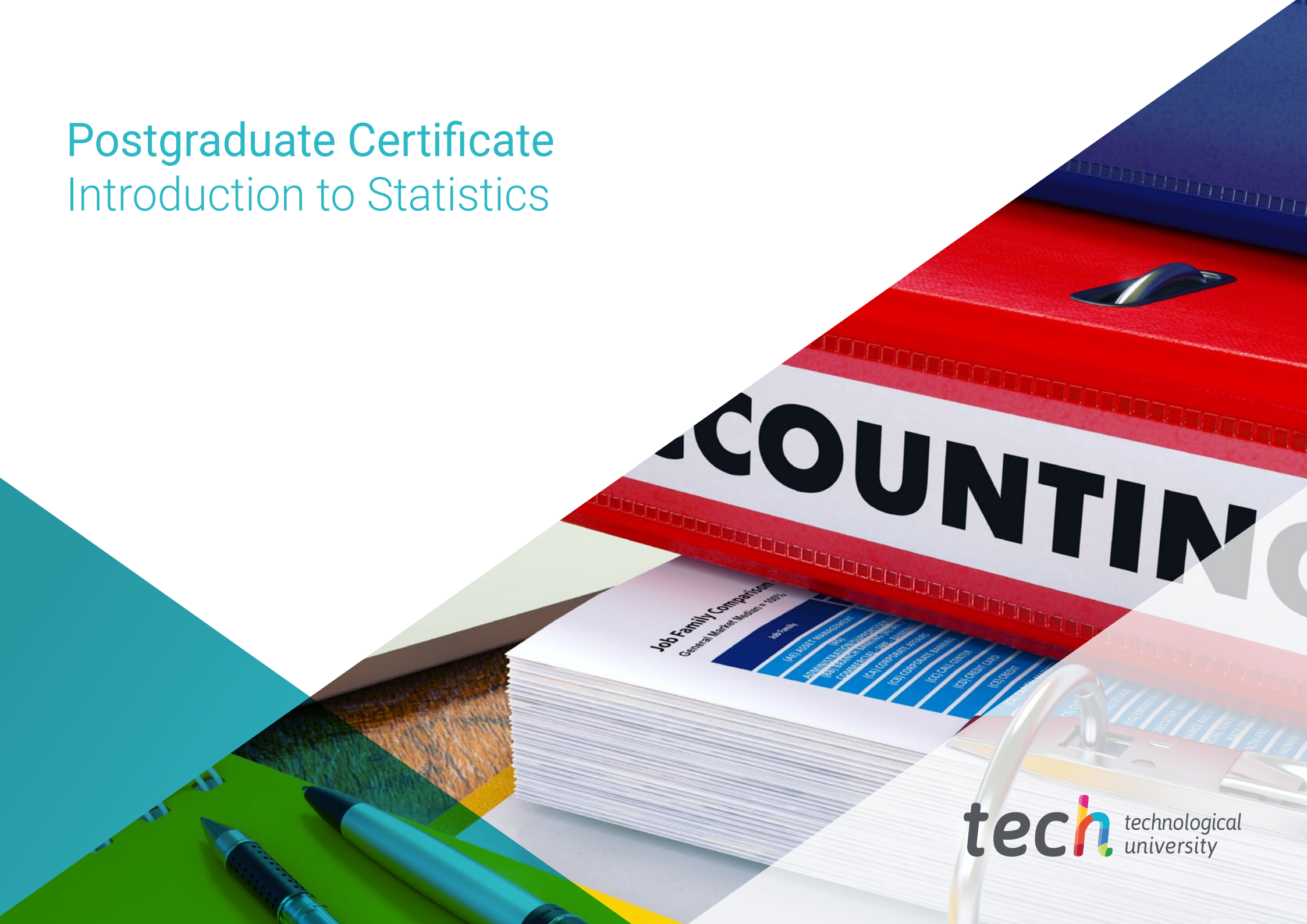
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Duration: 6 weeks

Certificate: TECH Technological University

Official N° of Hours: 150 h.

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Job Family Comparison
General Market Median = 100%

Job Family	100%
(A) BEST MANAGEMENT	100%
(B) ADMINISTRATION MANAGEMENT	100%
(C) PROFESSIONAL SERVICES	100%
(D) COMMUNITY SERVICES	100%
(E) CALL CENTERS	100%
(F) CUSTOM LOGS	100%
(G) PERSONNEL	100%