



Postgraduate Diploma Optimized Gamma/Theta Ratio Management

» Modality: online

» Duration: 6 months

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

» Exams: online

» Target Group: Graduates, with Certificate and University Degrees who have previously completed any of the programs in the field of Financial Economics, Accounting, Business or Social and Legal Sciences

We bsite: www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-optimized-gamma-theta-ratio-management

Index

Why Study at TECH? Why Our Program? Objectives Welcome p. 4 p. 6 p. 10 p. 14 06 Methodology Structure and Content Our Students' Profiles p. 18 p. 26 p. 34 80 **Course Management** Impact on Your Career Benefits for Your Company p. 38 p. 42 p. 46 Certificate

01 **Welcome**

Gamma exposure is one of the most relevant risks that can occur in options trading. Negotiating this exposure can be a complicated task, but there are many techniques and methods that help traders reduce risks and increase the chances of success. Therefore, this educational program will provide the professional with a prestigious top-level content to enhance and develop specialized skills related to the risks that are inherent to strategies to exploit bullish volatility expectations versus bearish ones. All this, through a 100% online teaching method and with didactic material that will provide the most effective and dynamic educational experience.









tech 08 | Why Study at TECH?

At TECH Technological University



Innovation

The university offers an online learning model that balances 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.

+100000

+200

executives prepared each year

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.



Why Study at TECH? | 09 tech

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 (postgraduate learning methodology with the best international valuation) with the Case Study. Tradition and vanguard in a difficult balance, and in the context of the most demanding educational 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 ground-breaking 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 analyses in academia"



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.



tech 12 | Why Our Program?

This program will provide you with a multitude of professional and personal advantages, among which we highlight the following:



A Strong Boost to Your Career

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 students achieve positive career development in less than 2 years.



Develop a strategic and global vision of the company

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

Our global vision of companies will improve your strategic vision.



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.



You will 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.



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.



Thoroughly develop business projects

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

20% of our students develop their own business idea.



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.



You will be part of an exclusive community

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

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





tech 16 | Objectives

TECH makes the goals of their students their own goals too Working together to achieve them

The Postgraduate Diploma in Optimized Gamma/Theta Ratio Management enable the students to:



Analyze the financial derivatives markets, from their origins in forward transactions to the present day, given that millions of transactions take place every day and involve large equivalent amounts of capital



Determine and compare the management of these expectations with combined option figures



Delve into the principles of equity investing, with special emphasis on the two key elements of return and risk





Delve deeper into the characteristics of trading platforms and derivative contracts in international markets



Differentiate the risks that are inherent in strategies to exploit bullish versus bearish volatility expectations



Examine the possibilities offered by calendar combinations between bought and sold options with different maturities



Examine the possibilities offered by combinations of put and call options with different maturities to improve portfolio performance



09

Detail the particularities of the most common exotic choices



Analyze and compare the different possibilities of option combinations to progressively improve portfolio performance



Compare the results of each exotic option to improve the return-risk ratio of the equity investment





tech 20 | Structure and Content

Syllabus

This educational program incorporates 6 weeks of continuous learning, where TECH will guide the professionals to the top of their professional career through an education that focuses on excellence and efficiency. In this way, students will acquire the most important vacancies in the financial field, facing the various challenges they will encounter in the workplace. In this way, this program provides a number of skills concerning the optimization of volatility gamma strategies with calendar combinations.

Therefore, the teachers have developed a syllabus integrating 3 modules, with the purpose of reinforcing the professional's competencies related to the interpretations complementary to the Delta concept.

On the other hand, students of this

Postgraduate Diploma will delve into
specific areas related to Theta strategies
with equity derivatives. In this way,
graduates will gain unique knowledge
regarding convexity and its benefit
to the option buyer.

Therefore, TECH takes into account comfort and excellence, that is why this program offers a complete and quality learning, while providing flexibility to take it. Graduates only need a device with an Internet connection to easily access the virtual platform, 24 hours a day and from anywhere in the world.

This Postgraduate Diploma takes place over 6 months and is divided into 3 modules:

Module 1 Equity Options Premium Sensitivity

Module 2 Gamma Volatility Strategies with Equity Derivatives

Module 3 Theta Strategies with Equity Derivatives



Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Diploma in Optimized Game/Theta Ratio Management completely online. Throughout the 6 months of the educational program, 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.

tech 22 | Structure and Content

Module 1. Equity Options Premium Sensitivity						
1.1. 1.1.1. 1.1.2. 1.1.3.		 1.2. Temporal Value of an Option 1.2.1. Incidence of Volatility 1.2.2. Incidence of Time to Maturity 1.2.3. Joint Impact of Both Elements 	1.3.1. (1.3.2.	The Delta of a Call Option Change in Call Option Premium as a Function of Underlying Price Importance of the Chosen Strike Option Seller's Perspective		Delta of a Put Option Change in Put Option Premium as a Function of Underlying Price Importance of the Chosen Strike Option Seller's Perspective
1.5.1 1.5.2 1.5.3.	with Intrinsic Value	 1.6. Option Gamma from the Option Buyer's Perspective 1.6.1. Convexity and Its Benefit to the Option Buyer 1.6.2. Magnitude of the Gamma Effect as a Function of Option Type 1.6.3. Magnitude of the Gamma Effect as a Function of Time to Maturity 	1.7.1. F c 1.7.2. F 0 1.7.3. F	Option Gamma from the Option Seller's Perspective Risks that Convexity Causes to the Buyer of an Option Risks Caused by Convexity in Near-Money Options Risks Caused by Convexity in Options Close on Maturity	1.8.1. 1.8.2.	The Vega of Options Impact of Volatility on the Options Premium Volatility Risks for Option Buyers Volatility Risks for Option Sellers
1.9. 1.9.1. 1.9.2. 1.9.3.	to Gamma The Magnitude of the Gamma Effect as a Function of Option Type	1.10. Other Effects on the Options Premium 1.10.1. Dividend Effect on Stock Options 1.10.2. Effect of Interest Rates 1.10.3. Effect of Time to Maturity on Gamma and Theta				

Module 2. Gamma Volatility Strategies with Equity Derivatives 2.1. Volatility as a Financial Product and 2.2. Option Positions and Volatility 2.3. Management of Bullish Volatility 2.4. Management of Bullish Volatility Its Influence on Option Premiums **Expectations. Optimization Expectations with Cones Expectations with Cradles** 2.2.1. Optimization in the Context of Bullish 2.4.1. Cradle: How It Is Formed 2.1.1. Most Important Volatility Indexes 2.3.1. Cone: How It Is Formed in International Financial Markets Volatility Expectations 2.3.2. Advantages of Managing Bullish Volatility 2.4.2. Comparison of the Use of Cradles versus 2.1.2. Derivative Products Whose Underlying 2.2.2. Optimization in the Context of Low Expectations with Cones the Use of Cones Volatility Expectations 2.3.3. Derivative Risks 2.4.3. Optimization of the Results through the Use in a Volatility Index 2.1.3. Influence of Volatility on the Option Premium 2.2.3. Difficulties in Optimizing Neutral of Cradles Volatility Expectations 2.5. Management of Bullish Volatility 2.8. Use of Ratios with Bearish Volatility 2.6. Bullish Volatility Expectation 2.7. Use of Cones and Cradles with **Expectations with Ratios** Management with Butterflies **Bearish Volatility Expectations** Expectations and Condors 2.7.1. Training of Cones and Cradles Sold 2.5.1. Preference for Bearish Ratios (with Puts) 2.8.1. Training of Ratios with Dominance 2.5.2. Comparison of the Use of Bearish Ratios 2.7.2. Advantages of These Combinations of Sold Items 2.6.1. Butterfly and Condor; How They Are Formed 2.8.2. Advantage of Sold Ratios over Basic Option versus the Use of Purchased Puts Compared to Option Selling Strategies 2.6.2. Comparison of Butterflies and Condors with 2.5.3. Optimization of Results through the Use 2.7.3. Risk Management of These Selling Strategies Respect to Cones and Cradles, Respectively of Bearish Ratios **Combined Strategies** 2.8.3. Risk Management Derived from Sold Ratios 2.6.3. Optimization of Results through the Use of Butterflies and Condors 2.9. Use of Butterflies and Condors with 2.10. Optimization of Volatility **Bearish Volatility Expectations** Gamma Strategies with Calendar Combinations 2.9.1. Training of Butterflies and Condors

2.10.1. Ratios Sold Calendar

2.10.2. Butterflies Purchased Calendar

2.10.3. Condors Purchased Calendar

Purchased

of Volatility

2.9.2. Advantages of These Positions over the Use

of Sold Cones and Cradles

2.9.3. Optimization of Bearish Expectations

tech 24 | Structure and Content

Module 3. Theta Strategies with Equity Derivatives 3.3. Risk Management when Using 3.1. Risk Management when Selling an 3.2. Management of the Put Risk 3.4. Spreads as a Theta Strategy Option as a Basic Theta Strategy of an Option Close to Maturity Cradles Sold as Theta Strategy 3.4.1. Use of Spread vs. Individual Sold Position 3.4.2. Spread Management when Close to Maturity 3.1.1. Risk Management when Selling Puts 3.3.1. Use of Cradles Sold vs. Cones Sold and vs. 3.2.1. Position Management and Closing when and when the Underlying Evolves against 3.1.2. Risk Management when Selling Call the Position Offers Benefits Individual Items Sold the Spread 3.1.3. Effect of Volatility Variation on These Basic 3.2.2. Position Management and Closing when 3.3.2. Cradle to Cradle Management when Options 3.4.3. Spread Optimization Theta Strategies the Position Offers Losses Are Close to Expiration 3.3.3. Cradle Management when One of the Two 3.2.3. Maintenance to Maturity of the Position Strikes Goes into the Money 3.5. Butterflies and Condors Purchased 3.6. Ratios as a Theta Strategy 3.7. Optimization of the Relationship 3.8. Spreads Calendar as Theta Strategy between Gamma and Theta as a Theta Strategy 3.6.1. Management of the Sold Ratio with Call Options 3.5.1. Use of Condor vs. Spread as a Theta Strategy 3.7.1. Influence of Strike on This Relationship 3.8.1. Management of Bullish Calendar Spreads 3.6.2. Management of the Sold Ratio with 3.8.2. Management of Bearish Calendar Spreads Use of the Butterfly vs. the Condor 3.7.2. Influence of Time to Maturity Put Options as a Theta Strategy on This Relationship 3.8.3. Spread Calendar Optimization 3.6.3. Strategy Sum of Ratios Sold vs. Cradle Sold 3.5.3. Optimization of the Theta Strategy 3.7.3. Influence of Volatility on This Relationship 3.9. Calendar Butterflies as a Theta 3.10. Calendar Ratios as a Theta Strategy strategy 3.10.1. Calendar Ratio Management with Call Options 3.10.2. Calendar Ratio Management with Put Options 3.9.1. Management of the Double Calendar Spread 3.10.3. Optimization of the Use of Calendar Ratio 3.9.2. Strategy Optimization Using Different Strikes as a Theta Strategy 3.9.3. Optimization of the Strategy Using Different Number of Bought and Sold Options





This university program provides you with a theoretical and practical perspective on the management of the so-called Double Calendar Spread"



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.





tech 28 | Methodology

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.





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



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

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.

tech 30 | Methodology

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.



Methodology | 31 tech

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.





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

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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.

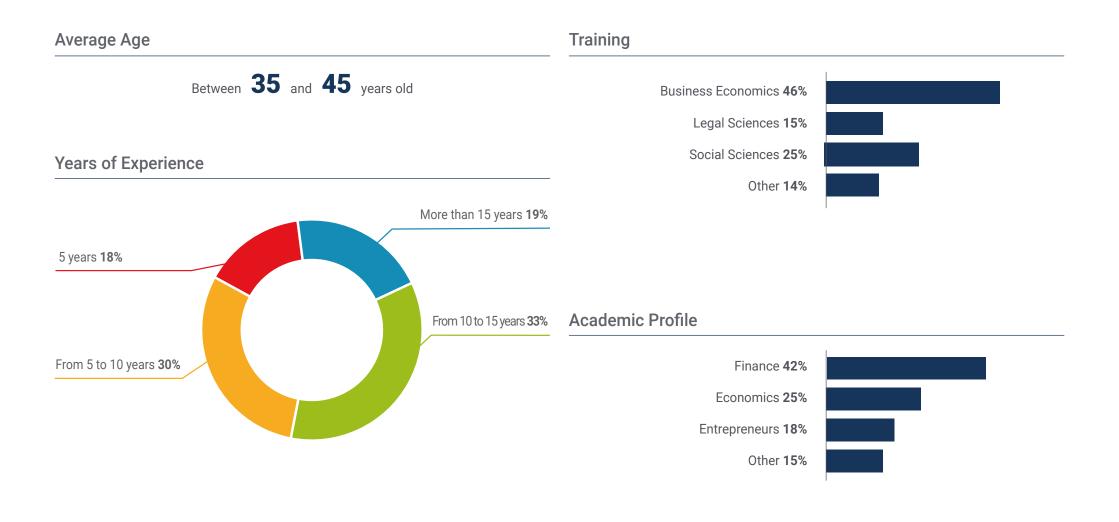


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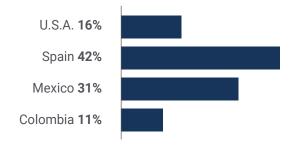


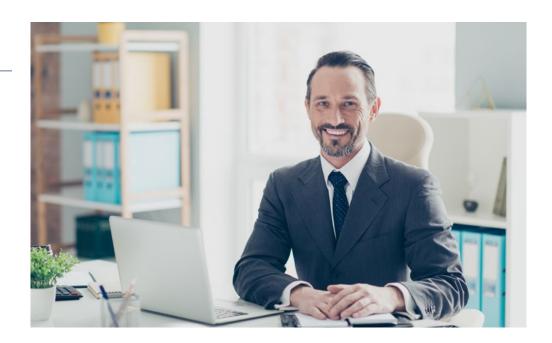


tech 36 | Our Students' Profiles



Geographical Distribution





Roberto Quijada

Private banking manager

"For me doing this program was a big change in my career. It made it easier for me to see much more optimal strategic analysis and methods. All this led me to the optimization of investment portfolios and to progress in my professional career"





tech 40 | Course Management

Management



Dr. Sarto Marzal, José Luis

- Portfolio manager in organized derivatives markets
- Chief Financial Officer at Celulosa Fabril
- Teacher in Graduate Degree in Finance and Accounting at the University of Zaragoza
- D. in Economics and Business Administration with Cum Laude mention from the University of Zaragoza
- Degree in Economics and Business Administration with a major in Finance from the University of Zaragoza

Professors

Dr. Andreu Sánchez, Laura

- Accounting and Finance Expert
- Researcher in projects supported by the Ministry of Science and Innovation and the Government of Aragon
- Teacher in Masters, Diplomas and Degrees at the University of Zaragoza
- D. in Accounting and Finance with distinction Cum Laude from the University of Zaragoza
- Degree in Business Administration and Management from the University of Zaragoza
- Postgraduate Certificate of Specialization in Financial Advisory and Wealth Management from the University of Zaragoza

Dr. Gimeno Losilla, Ruth

- Accounting and Finance Expert
- Teacher in the Accounting and Finance Department of the University of Zaragoza
- Researcher in projects for the Ministry of L+O+I, the Government of Aragon and the Ibercaja Banking Foundation
- Researcher in innovative teaching projects
- $\bullet\,$ PhD in Accounting and Finance from the University of Zaragoza



Course Management | 41 tech

Dr. Serrano Cored, Miguel

- Expert in Accounting and Finance
- Outbound Advisor (Work Force Management WFM) at Majorel SP Solutions
- Team Leader of Collection Agents at Majorel SP Solutions
- Collections Agent at Majorel SP Solutions
- Administrative at Ibercaja
- D. in Accounting and Finance
- Degree in Business Administration and Management with a major in Finance from the University of Zaragoza
- Postgraduate Certificate in Business Science
- Master's Degree in Accounting and Finance from the University of Zaragoza



Take the opportunity to learn about the latest advances in this field in order to apply it to your daily practice"





tech 44 | Impact on Your Career

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

TECH's Postgraduate Diploma in Optimized Gamma/Theta Ratio Management is an intensive program that prepares you to face business challenges and decisions in the field of Finance. The main objective is to promote your personal and professional growth. Helping you achieve success.

If you want to improve yourself, make a positive change at a professional level, and network with the best, then this is the place for you.

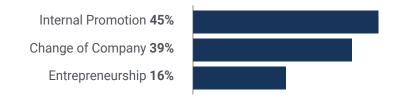
This program will provide you with innovative teaching material on Outof-the-Money options.

With this highly flexible program you only need an electronic device with an Internet connection to access the virtual platform 24 hours a day.

When the change occurs



Type of change



Salary increase

This program represents a salary increase of more than **26.24**% for our students.

Salary before

\$68,000

A salary increase of

26.24%

Salary after

\$75,744





tech 48 | Benefits for Your Company

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



Growth of talent and intellectual capital

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



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.



Building agents of change

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



Increased international expansion possibilities

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





Project Development

The professional can work on a real project or develop new projects in the field of R & D or business development of your company.



Increased competitiveness

This program will equip students with the skills to take on new challenges and drive the organization forward.





tech 52 | Certificate

This **Postgraduate Diploma in Optimized Gamma/Theta Ratio Management** 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 Diploma** issued by **TECH Technological University** via tracked delivery*.

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

Title: **Postgraduate Diploma in Optimized Gamma/Theta Ratio Management**Official N° of Hours: **450 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.

technological university

Postgraduate Diploma Optimized Gamma/Theta Ratio Management

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- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

