



# Postgraduate Diploma Just In Time System (JIT)

» Modality: online» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

» Target Group: University Graduates who have previously completed any of the degrees in the fields of Social and Legal Sciences, Administrative and Business Sciences

 $We b site: {\color{blue}www.techtitute.com/us/school-of-business/postgraduate-diploma/postgraduate-diploma-just-time-system-jit} \\$ 

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# 01 **Welcome**

Just In Time is a production model that focuses on developing only the quantity of products that is demanded by customers, in order to achieve zero inventory. This drastically reduces levels of surplus stock, minimizing the possibility of serious economic losses for companies. Given the benefits offered by this system, many companies need highly trained leaders in its management to optimize their productive tasks. For this reason, TECH has created this program, which increases the student's skills in the processes of design and implementation of the continuous workflow or Pull System. This way, 100% online and from home, you will significantly boost your professional growth.









## tech 08 | Why Study at TECH?

#### At TECH Global 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.



#### 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"

### 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 methodology (the most internationally recognized postgraduate learning methodology) with Harvard Business School case studies. A complex balance of traditional and state-of-the-art methods, within the most demanding academic framework.



#### **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.





## 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 Global 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 Just In Time System (JIT) will train the student to:



Apply the use of VSM to diverse environments, beyond the industrial areas where it is commonly known



Design a work plan according to future VSM to be achieved



Identify the different value streams that exist within a company





Evaluate and diagnose the process through the current VSM



Support the use of the different tools contained in the flow creation process



Apply the principle of flow creation for materials, machines, information and people



Integrate other lean tools into the unit flow



09

Apply the pull principle to all elements of the production flow: materials, machines, information and people



Radically eliminate flow inefficiencies



Demonstrate how to level, balance and synchronize the different flows





### tech 20 | Structure and Content

#### **Syllabus**

The Postgraduate Diploma in Just In Time System (JIT) has been created with the objective of training students to successfully face all the challenges presented by the field of business production management. Through the knowledge acquired, they will be able to make sound decisions in different contexts of uncertainty and constant change.

Through 450 hours of learning, students will analyze practical business cases both in groups and individually, delving into the intricacies of real business situations and acquiring skills applicable to their day-to-day professional lives.

Through this program, the student will delve into aspects such as the analysis and mapping of the flow of materials and business information, the design of processes to develop a fluid work or the keys to the Pull System. Thanks to this, you will be able to understand the real applicability and operability of the Just In Time System.

In this way, the student will acquire a series of competencies that will enable them to perform a skillful direction and management of business production. All this, enjoying a completely revolutionary educational methodology, being guided by the best specialists in this field and studying through modern multimedia didactic formats.

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

Module 1. Value Stream Mapping: Analysis and Mapping of the flow of materials, information and activities in a process. Flow optimization

Module 2. Continuous Flow: Process design for smooth and continuous workflows

Module 3. Pull system: implementation of a demand-driven production system to control production and minimize inventory



#### Where, When and How is it Taught?

TECH offers the possibility of developing this Postgraduate Diploma in Just In Time System (JIT) completely online. During the 6 months of the specialization, the student will be able to access all the contents of this program at any time, which will allow them to self-manage the 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. Value Stream Mapping: Analysis and Mapping of the flow of materials, information and activities in a process. Flow optimization |   |   |        |  |        |  |  |
|---|---|---|--------|--|--------|--|--|
| 1.1.<br>1.1.1.<br>1.1.2.<br>1.1.3.  | Stream Mapping.(VSM) Value stream The value stream map  | 1.2. Connection, Strategy and tactics with the VSM  1.2.1. The Quality Cost Delivery (QCD) The customer is in charge  1.2.2. Hoshin Kanri, from vision to tactics  1.2.3. Visual Management as a mechanism for prioritization and alignment |        | Value Stream Map in current status Value stream mapping Symbols used in the design of the Value Stream Map Data Collection       | 1.4.2. | The timing of a value stream map VSM Takt Time, the rhythm set by the customer Cycle Time Lead Time, the necessary end-to-end time           |  |
| <b>1.5.</b> 1.5.1. 1.5.2. 1.5.3.  |   | <ul><li>1.6.1 Future State Value Stream Map</li><li>1.6.1. Value stream mapping</li><li>1.6.2. Symbols used for future design</li><li>1.6.3. From the future map to the work plan</li></ul>   | 1.7.1. | Value chain planning<br>and improvement<br>Implementation planning<br>Prioritization of activities<br>Connecting VSM to strategy | 1.8.2. | Value Supply Chain Management Mapping of the current state of the Supply Chain Symbols used for its design Design of the future supply chain |  |
| 1.9.<br>1.9.1.<br>1.9.2.<br>1.9.3.  | Management, the Lean Project Peculiarities of a Project vs. a Process The value stream of a project | 1.10. Yokoten 1.10.1. Yokoten. Fundamentals 1.10.2. The 3 phases of Yokoten 1.10.3. Standard Solution Cycle   |        |  |        |  |  |

| Module 2. Continuous Flow: Process design for smooth and continuous workflows |  |                  |  |                                    |  |                                  |   |
|---|--|------------------|--|------------------------------------|--|----------------------------------|---|
| <b>2.1.</b> 2.1.1. 2.1.2. 2.1.3.  | Continuous Flow Flow Creation in the Toyota Production System The Fourteen Principles of the Toyota Way Culture Total Flow Management, the union of Flow Creation and Pull Flow System |                  | Processes Typology of industrial processes Departments vs. Processes vs. Flows Process integration   | 2.3.<br>2.3.1.<br>2.3.2.<br>2.3.3. | Flows The different types of flows: Materials, Equipment, People and Information Job-shop vs. Flow-shop Turbulent flows vs. Linear flows                           | 2.4.2.                           | Machines, Equipment and Lines Hardware Reliability as an Essential Element for Flow Creation Jidoka philosophy as an essential element in Flow Creation Monument machine vs. Lean Machine |
| <b>2.5.</b> 2.5.1. 2.5.2. 2.5.3.  | /  | 2.6.1.<br>2.6.2. | Person The Internal Customer, concept in a lean environment The role of a lean manager The role of a lean operator   |                                    | Information Enterprise Resource Planning System (ERP) Information systems specific to the industrial environment Dashboard, as part of the Daily Management System | <b>2.8.</b> 2.8.1. 2.8.2. 2.8.3. | Lean Flow System Muda expulsion in the production process The Autonomous Cell as a lean paradigm Lean support tools: 5S, Visual Management, SMED  |
| 2.9.1.  | automotive sector<br>Example of application in the metallurgical<br>sector   | 2.10.1<br>2.10.2 | Creation of Flow: Design, Implementation and Improvement of Production Processes. Practical Application Design for flow creation Implementation of continuous flow Improvement of production processes |                                    |  |                                  |   |

## tech 24| Structure and Content

| Module 3. Pull system: implementation of a demand-driven production system to control production and minimize inventory |  |                                  |  |                  |  |                                  |  |  |
|---|--|----------------------------------|--|------------------|--|----------------------------------|--|--|
| <b>3.1</b> . 3.1.1 3.1.2 3.1.3  |  |                                  | Demand Types of demand Takt Time, Production Time, Lead Time Production + Logistics Contract   | 3.3.1.<br>3.3.2. | Flows End-to-End: from suppliers to customers Logistics + Production Connection Supply routes    | 3.4.1.<br>3.4.2.                 | Machines, Equipment and Lines<br>Logistics train<br>Containers<br>Shelving   |  |
|   |  | <b>3.6.</b> 3.6.1. 3.6.2. 3.6.3. | Person Pull Flow system managers Logistics and production operators The "Mizusumashi" ("Water spider")   | 3.7.2.           | Information Heijunka (Leveling): Leveling box + Logistics box Kanban Batch Conformer + Sequencer | <b>3.8.</b> 3.8.1. 3.8.2. 3.8.3. | Lean Pull Flow System Balanced On-line sequencing Lean support tools: VSM, OEE, Standard Work, One-point-lesson, Andon |  |
| 3.9.1<br>3.9.2<br>3.9.3   | <ul> <li>applications</li> <li>Example of implementation in the automotive sector</li> <li>Example of application in the metallurgical sector</li> </ul> | 3.10.1<br>3.10.2                 | Pull system: Design, Implementation and Improvement of Production Processes. Practical Application . Design of a pull system . Implementation of the pull flow system . Improvement of information in production processes |                  |  |                                  |  |  |







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.

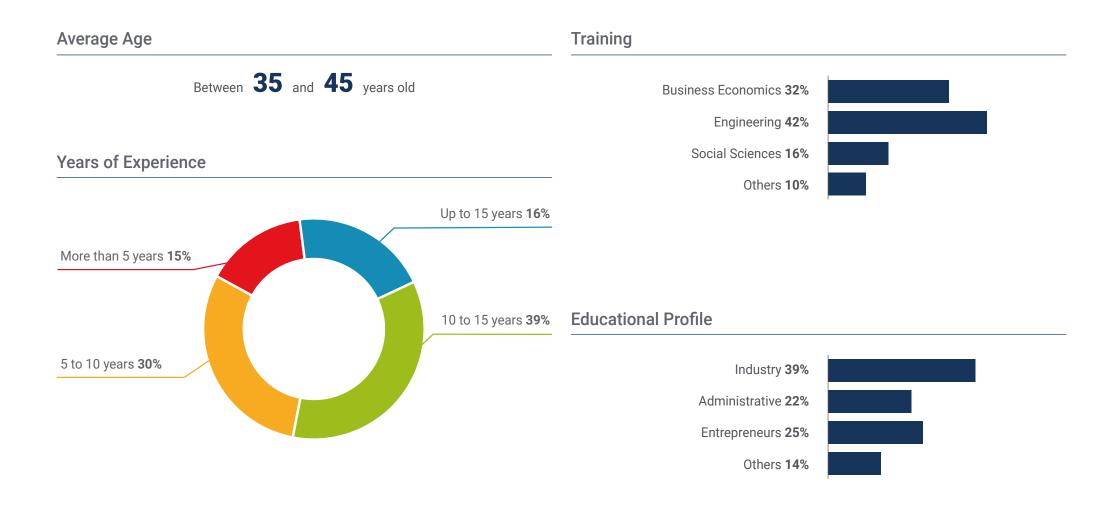


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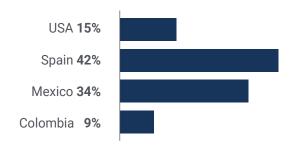




### tech 36 | Our Students' Profiles



#### **Geographical Distribution**





# Sergio Rodríguez

#### **Production Manager**

"I decided to take this program with the idea of mastering the intricacies of the Just In Time System, since it was a production model that called my intention and that I wanted to know how to implement in day-to-day business. Thanks to this Postgraduate Diploma, I have been able to reach my goal and continue to grow as a professional"





## tech 40 | Course Management

#### Management



#### Mr. Jover Miravitlles, Luis

- President and Founding Partner Grupo Quarck, S.L. Founding Partner
- Senior Partner in LOGIXS
- Vice President of €-Corp. S.L
- IQS Executive Education Director
- Associate Professor at IF Business School
- Coordinator of the Master's Degree in Integral Business Management at the Universidad Iberoamericana in Mexico City
- Advisor to the employers' association Cecot
- Chemical Engineer at the Chemical Institute of Sarria (IQS)
- Master in Business Administration MBA IESE
- Member of the Hispack organizing committee

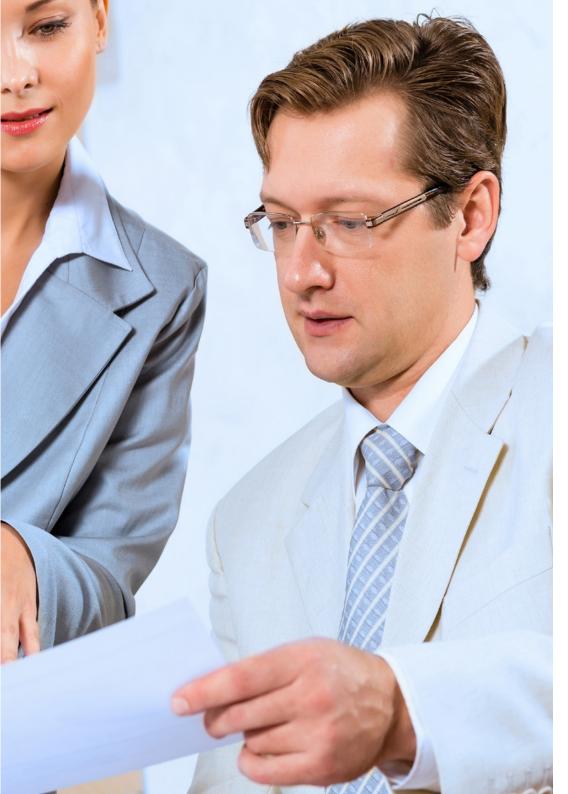
#### **Professors**

#### Mr. Antoni Aguilar, Josep

- Founder and President of Actio Crealor Consulting
- Country Manager of The Kaizen Institute
- Operations & SCM Consultant
- Production Manager at Magna International
- IQS Executive Education
- Professor in EUNCET Business School
- Graduate in Business Administration from the University of Lincoln

#### Mr. Pietro García Sergio

- Consultant and Director. Lean & Agile. Operations & Strategy Management Consultant
- Operations and Restructuring Consultant at Adoria Consulting
- Process and Continuous Improvement Engineer at Kostal Eléctrica
- Lean Management Professor at LaSalle BCN
- Operations & Supply Chain professor at the IQS Executive Education
- Associate Operations Consultant and Professor at the Chamber of Commerce of Sabadell
- Degree in Industrial Engineering, specializing in business organization and management, Catalunya Polytechnic University



# Course Management 41 tech

#### Mr. Pedrera Rosado, Alejandro

- Co-founder and Legal Director of Hesperian Wares LLC.
- Partnerships Representative at Factorial
- Expert in Digitalization of Law
- Master's Degree in Access to the Legal Profession from the University of Extremadura
- Graduate in Law from the University of Extremadura

#### Mr. Corvillo Díaz, Rafael

- Lawyer at CORVILLO ABOGADOS, S.L.P
- Creator of the tool lus Pro-Health®
- Law Degree from the University of Extremadura
- Master's Degree in Health Law from CEU San Pablo University
- Civil and Mercantile Mediator by UEX





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

TECH's Postgraduate Diploma in Just In Time System (JIT) is an intensive program that prepares you to face challenges and business decisions in the field of Lean Manufacturing. 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.

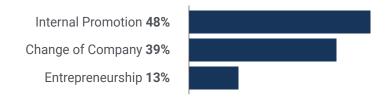
Provide your company with an optimized production model and extract the maximum benefit from your activity.

Increase your salary prospects by taking this Postgraduate Diploma in Just In Time System (JIT).

#### **Time of Change**



#### Type of change



### Salary increase

This program represents a salary increase of more than 27% for our students

\$ 70.000

A salary increase of \$ 88.900





# 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 program will allow you to obtain your **Postgraduate Diploma in Just In Time System (JIT)** 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.

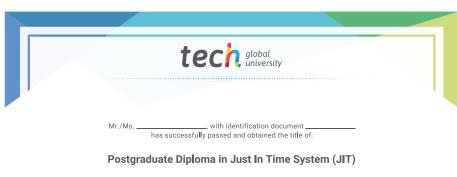
This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in Just In Time System (JIT)

Modality: online

Duration: 6 months

Credits: 18 ECTS



This is a program of 450 hours of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



<sup>\*</sup>Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.



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