Executive Master's Degrees

Technology Project Management

MTPM

tech technological university

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Executive Master's Degrees
Technology Project Management

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Technological University**
- Dedication: **16h/week**
- Schedule: **at your own pace**
- Exams: **online**
- Target Group: **graduates and professionals with demonstrable experience in project management**

Website: **www.techtitute.com/us/school-of-business/professional-master-degree/master-technology-project-management**

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01

Welcome

In today's reality, full of opportunities and challenges, but also exposed to the most intense competition, the only way to progress, adapt and guarantee success in the technological area is through efficient and effective project management. With this specialization program you will have access to the indispensable knowledge to excel in technological fundamentals, management skills, standards-based methodologies and updated international concepts on Technology Project Management. A unique opportunity with which you will be able to develop the specific skills to handle yourself with total fluency in this field, improving your daily practice and gaining access to positions of greater responsibility.

Executive Master's Degrees in Technological Projects Management.
TECH Technological University

The current situation requires professionals to have increasingly specific qualifications. With this Executive Master's Degrees, you will gain the knowledge and skills necessary to compete with excellence in the area of Technology Project Management"

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 Technological 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.

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"

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

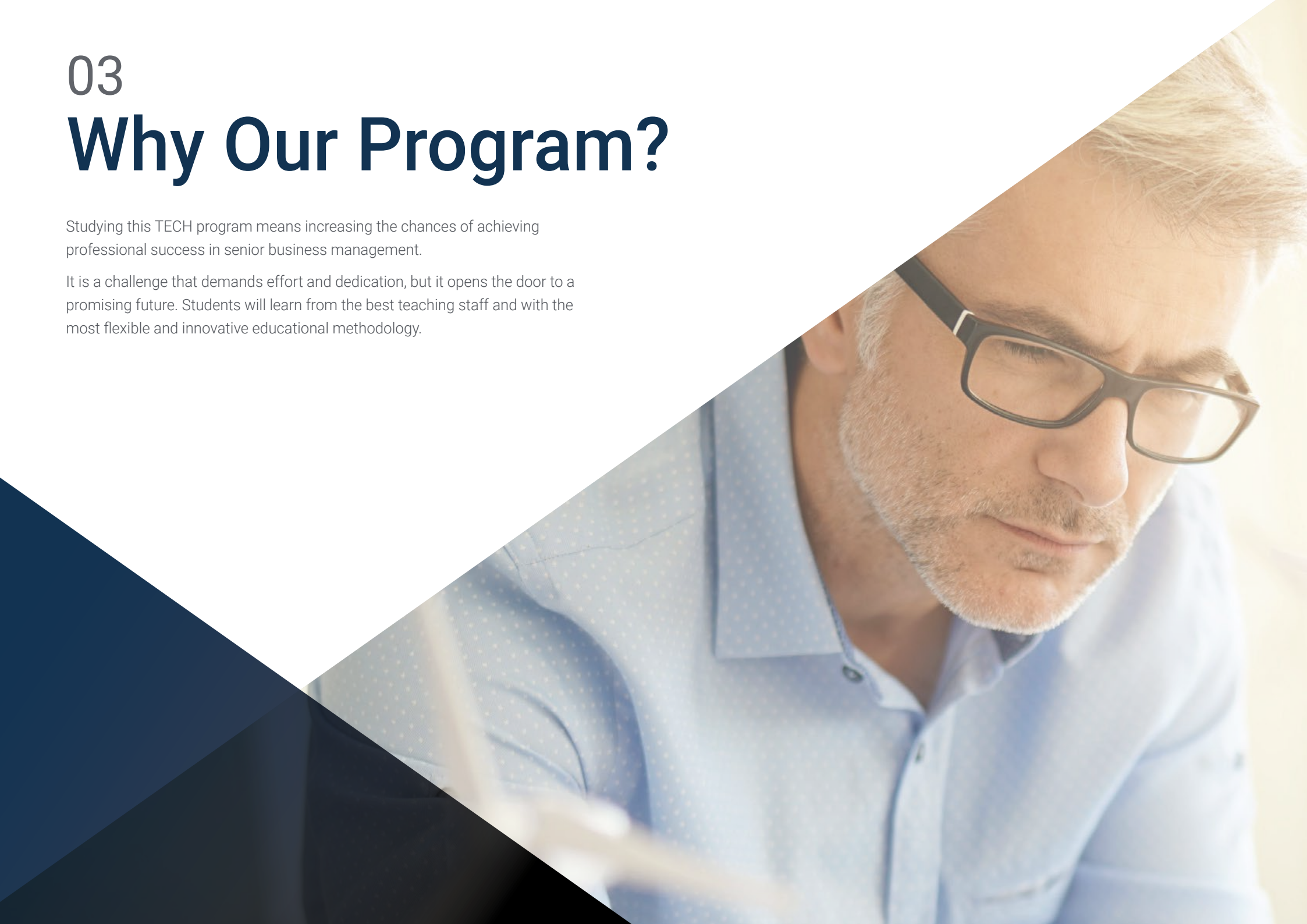
TECH is the world's largest online university. It currently boasts a portfolio of more than 10,000 university postgraduate programs. And in today's new economy, **volume + technology = a ground-breaking price**. This way, TECH ensures that studying is not as expensive for students as it would be at another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

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 Technological University community.

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

04

Objectives

This Executive Master's Degrees will provide the student with the knowledge and techniques essential for the management of technological teams and projects, and for the assumption and organization of the organizational responsibilities in this area. This training will enable you to lead and manage highly complex projects in any industry, especially in technology, with guarantees.

This training can be a leap of high value in your professional qualification, enabling you to lead technological projects of any kind, with guarantees of success"

TECH's objectives are those of the students.
TECH works together with the student to help them achieve the objectives.

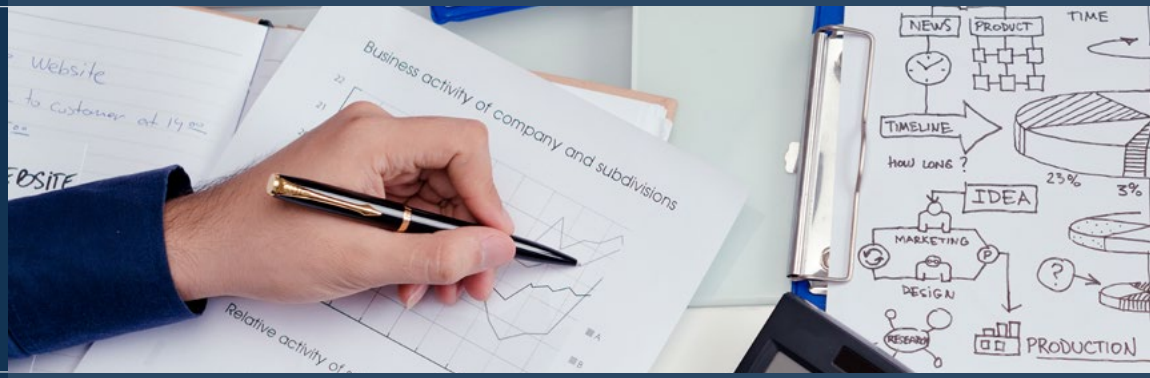
The **Executive Master's Degrees in Technology Project Management** will enable the student to:

01 Develop skills and abilities necessary to make decisions in all types of projects, especially technological projects, multidisciplinary contexts and environments

02 Acquire the ability to analyze and diagnose business and management problems in the different areas of knowledge of project management

03 Master advanced business management tools to identify and anticipate opportunities, allocate resources, organize information, select, motivate and manage people, make decisions, achieve proposed objectives and evaluate results

04 Provide a global and strategic vision of all operational departments of the company



05 Assume responsibilities and think in a transversal and integrative way to analyze and solve situations in uncertain environments

06 Develop the minutes of incorporation of technology projects

08 Know how to estimate time in each process of project design and development

09 Evaluate the processes and estimate the cost of developing a technology project

07 Carry out a comprehensive control of all projects

10 Give importance to the quality of the projects

11 Understand the cost of failing to meet project quality

12 Perform quality controls at each stage of the project

13 Acquire techniques and skills to manage human resources and be able to resolve conflicts in the team

14 Know the emerging trends in the market

15 Develop Communicative skills

16 Understand and manage the risks of technology projects

05

Skills

After passing the evaluations of the Executive Master's Degrees in Technology Project Management, the professional will have acquired the necessary skills for a quality and updated praxis based on the most innovative didactic methodology.

We offer you a unique opportunity to acquire the necessary skills that will allow you to compete with the best in the industry"

01 Successfully manage technology projects to achieve business objectives

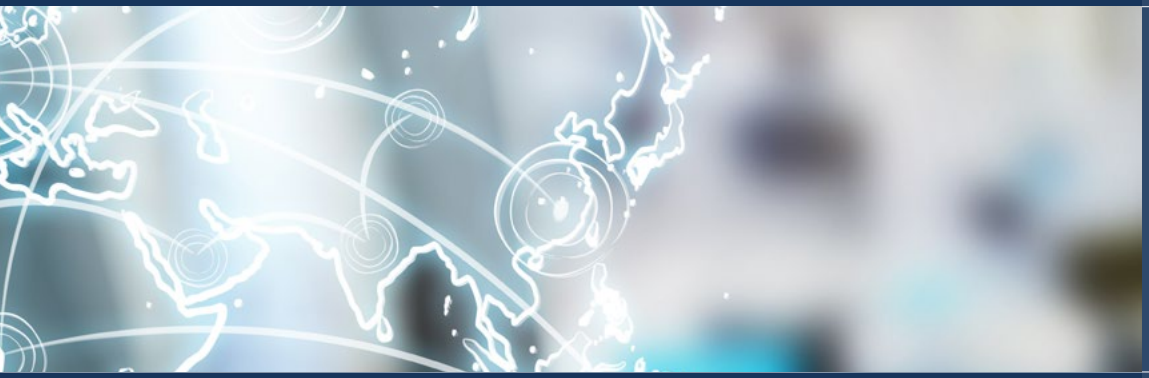
02 Audit the quality of each of the processes involved in the project design

03 Apply the specific regulations and best practice criteria for the management of technology projects

04 Perform the process of work monitoring and quality control of technological projects

05 Manage the scope of technology projects

06 Estimate the duration of projects and managing them appropriately



07 Understand the human and material resources required to carry out a project

08 Understand emerging trends and practices in technology project resource management and implement them

09 Apply new trends in the field of communication

10 Apply the code of ethics in the management of technological projects

06

Structure and Content

The Executive Master's Degrees in Technology Project Management is a custom-designed program delivered in a 100% online format. In this way, the student will be able to choose the time and place that best suits their availability, schedule and interests, thus achieving more effective learning.

A program that takes place over 12 months and is intended to be a unique and stimulating experience that lays the foundations for success in the workplace as a Technology Project Manager.

We focus on enhancing and developing management and leadership skills that will allow you to select, train and motivate effective and high-performance work teams for the design of technological projects"

Syllabus

The content of this Executive Master's Degrees has been designed by directors of large technological projects who consciously and proactively pour into this program their experience and, therefore, their realistic and close vision of the professional reality.

Throughout the syllabus, all aspects of project management will be discussed and analyzed, learning the key concepts in this field, the processes of identification, definition, unification and coordination.

A journey that will lead students to the analysis of the keys to success of projects in different environments, and to the reflection on the essential management of time on their way to efficiency, cost management, quality, resources, communications, risk assessment, and procurement and certification management.

All of this development, under the guidance of professionals recognized and valued worldwide, in order to learn from the best, with the best learning system and a stimulating and attractive educational process.

Another key to the success of this program is the possibility of being the student himself who decides how they organizes their learning: from the time, to the place and intensity of study. In this way, TECH ensures that this effort is fully compatible with personal and professional life. So that the student never loses motivation.

This Executive Master's Degrees takes place over 12 months and is divided into 10 modules:

Module 1	Introduction to the design and management of technology projects and management of the integration of technology projects
Module 2	Technology Project Scope Management
Module 3	Time Management of Technology Projects
Module 4	Cost Management of Technology Projects
Module 5	Quality Management Technology Projects
Module 6	Management of Technology Project resources
Module 7	Communications and Stakeholder Management for Technology Projects
Module 8	Risk Management of Technological Projects
Module 9	Management of Technology Project Acquisitions
Module 10	pmp® or capm® certification and code of ethics Emerging trends and practices in the management and direction of technology projects

Where, When and How is it Taught?

TECH offers the student the possibility to develop this program completely online Throughout the 12 months of training, the studuent will be able to access all the contents of this program at any time, allowing them to self-manage their study time.

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

Module 1. Introduction to the Design and Management of Technology Projects and Management of the Integration of Technology Projects

1.1. Introduction to Technology Project Management
1.1.1. Project Manager Role
1.1.2. Project Definition
1.1.3. Organisational Structure

1.2. Project Management, Program Management and Portfolio Management
1.2.1. Portfolios, Programs and Projects
1.2.2. Strategic Management

1.3. Standards and Best Practices for the Management of Technological Projects
1.3.1. Prince 2
1.3.2. PMP
1.3.3. ISO 21500:2012

1.4. Organizational Influences on Technology Project Design and Management
1.4.1. Environmental Factors in an Enterprise
1.4.2. Process Assets of an Organization

1.5. Processes of Technology Project Management
1.5.1. Life Cycle of Technology Projects
1.5.2. Process Groups
1.5.3. Dynamics of Process Groups

1.6. Development of the Act of Incorporation of Technological Projects
1.6.1. Definition of the Act of Incorporation of Technological Projects
1.6.2. Tools and Techniques

1.7. Development of the Plan for the Design and Management of Technological Projects
1.7.1. Definition of the Plan for the Design and Management of Technological Projects
1.7.2. Tools and Techniques

1.8. Knowledge Management of Technological Projects
1.8.1. Importance of Knowledge Management in Technology Projects
1.8.2. Tools and Techniques

1.9. Monitor the Work of the Technological Projects
1.9.1. Work Monitoring and Control
1.9.2. Follow-up Reports on Technological Projects
1.9.3. Tools and Techniques

1.10. Integrated Change Control in Technology Projects
1.10.1. Project Change Control Objectives and Benefits
1.10.2. CCB (Change Control Board)
1.10.3. Tools and Techniques

1.11. Delivery and Closing of Technological Projects
1.11.1. Objectives and Benefits of Closing a Project
1.11.2. Tools and Techniques

Module 2. Technology Project Scope Management

2.1. Introduction to Scope Management
2.1.1. Scope of the Project
2.1.2. Scope of the Product

2.2. Fundamentals and Scope Management
2.2.1. Basic Concepts
2.2.2. Baseline of the Scope

2.3. Benefits of Scope Management
2.3.1. Stakeholder Expectation Management
2.3.2. Scoop Creep and Gold Plating

2.4. Considerations for Adaptive environments
2.4.1. Types of Adaptive Projects
2.4.2. Scope Definition in Adaptive Projects

2.5. Planning of Scope Management
2.5.1. Scope Management Plan
2.5.2. Requirements Management Plan
2.5.3. Tools and Techniques

2.6. Gather Requirements
2.6.1. Requirements Gathering and Negotiation
2.6.2. Tools and Techniques

2.7. Definition of Scope
2.7.1. Project Scope Statement
2.7.2. Tools and Techniques

2.8. Creation of the Work Breakdown Structure (WBS)
2.8.1. Work Breakdown Structure (WBS)
2.8.2. Types of EDT
2.8.3. Rolling Wave
2.8.4. Tools and Techniques

2.9. Scope Validation
2.9.1. Quality Vs Validation
2.9.2. Tools and Techniques

2.10. Scope Control
2.10.1. Data and Information about Project Management
2.10.2. Types of Performance Reports
2.10.3. Tools and Techniques

Module 3. Time Management of Technology Projects

3.1. Estimated Duration of Project Tasks
3.1.1. Three-value Estimation
- 3.1.1.1. Most Likely (tM)
- 3.1.1.2. Optimistic (tO)
- 3.1.1.3. Pessimistic (tP)

3.1.2. Analogous Estimate
3.1.3. Parametric Estimation
3.1.4. Bottom-up Estimates
3.1.5. Decision Making
3.1.6. Expert Judgment

3.2. Definition of the Activities and Breakdown of the Project Work
3.2.1. Decomposition
3.2.2. Define the Activities
3.2.3. Project Work Breakdown
3.2.4. Activity Attributes
3.2.5. List of Milestones

3.3. Activity Sequencing
3.3.1. List of Activities
3.3.2. Activity Milestones
3.3.3. Provenance Diagramming Method
3.3.4. Determination and Integration of the Units
3.3.5. Advances and Delays
3.3.6. Project Schedule Network Diagram

3.4. Estimated Resources of the Activities
3.4.1. Register of Assumptions
3.4.2. List of Activities
3.4.3. Activity Milestones
3.4.4. Register of Assumptions
3.4.5. Lessons Learned Register
3.4.6. Project Team Assignments
3.4.7. Resource Breakdown Structure

3.5. Estimated of the Duration of Activities
3.5.1. Law of Diminishing Returns
3.5.2. Number of Resources
3.5.3. Technological Advances
3.5.4. Staff Motivation
3.5.5. Project Documentation

3.6. Development of the Timeline
3.6.1. Analysis of the Networks Timeline
3.6.2. Critical Path Method
3.6.3. Resource Optimization
- 3.6.3.1. Resource Levelling
- 3.6.3.2. Resource Stabilization

3.6.4. Advances and Delays
3.6.5. Schedule Compression
- 3.6.5.1. Intensification
- 3.6.5.2. Quick Execution

3.6.6. Baseline of the Timeline
3.6.7. Project Timeline
3.6.8. Timeline Data
3.6.9. Project Calendars

3.7. Types of Relationships and Types of Dependencies between all Project Activities
3.7.1. Obligatory Dependencies
3.7.2. Discretionary Units
- 3.7.2.1. Preferred Logic
- 3.7.2.2. Preferential Logic
- 3.7.2.3. Soft Logic

3.7.3. External Units
3.7.4. Internal Units

3.8. Time Management Software for Technology Projects
3.8.1. Analysis of Different Software
3.8.2. Types of Software
3.8.3. Functionalities and Coverage
3.8.4. Uses and Advantages

3.9. Timeline Control
3.9.1. Job Performance Information
3.9.2. Timeline Forecasts
3.9.3. Change Requests
3.9.4. Update to the Time Management Plan
3.9.5. Project Document Updates

3.10. Recalculation of Times
3.10.1. Critical Path
3.10.2. Calculation of Minimum and Maximum Times
3.10.3. Project Clearances
- 3.10.3.1. What Is It?
- 3.10.3.2. How to Use it?

3.10.4. Total Clearance
3.10.5. Free Clearance

Module 4. Cost Management of Technology Projects

4.1. What Is the Cost Management Plan?
4.1.1. Tools and Planning Techniques
4.1.2. Cost Planning Results

4.2. Estimate Costs Types of Estimations Reserve Analysis
4.2.1. Useful Information for Cost Estimation
4.2.2. Cost Estimation Tools and Techniques
4.2.3. Results of Cost Budget Preparation

4.3. Types of Project Costs
4.3.1. Direct and Indirect Costs
4.3.2. Fixed and Variable Costs

4.4. Project Evaluation and Selection
4.4.1. Financial Dimensions of a Project
4.4.2. VAN
4.4.3. IRR and NRR
4.4.4. Payback

4.5. Determine the Budget
4.5.1. Useful Information for the Preparation of the Project Budget
4.5.2. Tools and Techniques for Cost Budget Preparation
4.5.3. Results of Cost Budget Preparation

4.6. Cost Projections
4.6.1. Data and Information about Cost Management
4.6.2. Types of Cost Performance Reports

4.7. Earned Value Technique (EVM)
4.7.1. Base Variables and Status Variables
4.7.2. Prognosis
4.7.3. Emerging Techniques and Practices

4.8. Project Cash Flow
4.8.1. Types of Cash Flow
4.8.1. Estimating the Net Cash Flows Associated with a Project
4.8.1. Discounted Cash Flows
4.8.1. Application of Risk to Cash Flows

4.9. Cost Control
4.9.1. Cost Control Objectives and Benefits
4.9.2. Tools and Techniques

Module 5. Quality Management Technology Projects

5.1. Importance of Quality Management in Projects
5.1.1. Key Concepts
5.1.2. Differences between Quality and Grade
5.1.3. Precision
5.1.4. Accuracy
5.1.5. Metrics

5.2. Quality Theorists
5.2.1. Edwards Deming
5.2.1.1. Shewart-Deming Cycle (Plan Do-Check-Act)
5.2.2. Continuing Improvement
5.2.3. Joseph Juran Pareto Principle
5.2.3.1. "Fitness for Use" Theory
5.2.4. "Total Quality Management" Theory
5.2.5. Kaoru Ishikawa (Herringbone)
5.2.6. Philip Crosby (Cost of Low Quality)

5.3. Regulations: ISO Business School 21500
5.3.1. Introduction
5.3.2. Background and History
5.3.3. Objectives and Characteristics
5.3.4. Process Group-Subject Group
5.3.5. ISO 21500 vs. PMBOK
5.3.6. Future of Rules

5.4. Emerging Trends and Practices in Quality Management
5.4.1. Policy Compliance and Auditing
5.4.2. Continuing Improvement
5.4.3. Stakeholders Involvement
5.4.4. Recurring Retrospectives
5.4.5. Subsequent Retrospectives

5.5. Planning of Quality Management
5.5.1. Cost-Benefit Analysis
5.5.2. Multi-criteria Decision Analysis
5.5.3. Test and Inspection Planning
5.5.4. Flow Charts
5.5.5. Logical Data Model
5.5.6. Matrix Diagram
5.5.7. Interrelationship Digraphs

5.6. Quality Compliance and Non-compliance Costs
5.6.1. Compliance Costs
5.6.2. Non-compliance or Non-conformance Costs
5.6.3. Prevention Costs
5.6.4. Valuation Costs
5.6.5. Internal Failures
5.6.6. External Failures
5.6.7. Marginal Quality Cost
5.6.8. Optimum Quality

5.7. Quality Management
5.7.1. Verification Lists
5.7.2. Alternatives Analysis
5.7.3. Document Analysis
5.7.4. Process Analysis
5.7.5. Root Cause Analysis
5.7.6. Cause-Effect Diagrams
5.7.7. Histograms
5.7.8. Scatter Diagrams
5.7.9. Design for X
5.7.10. Quality Improvement Methods

5.8. Quality Audits
5.8.1. What Is an Internal Quality Audit?
5.8.2. Different Types of Audits
5.8.3. Objectives of an Internal Audit
5.8.4. Benefits of Internal Audits
5.8.5. Actors Involved in the Internal Audit
5.8.6. Procedure of an Internal Audit

5.9. Quality Control
5.9.1. Verification Sheets
5.9.2. Statistical Sampling
5.9.3. Questionnaires and Surveys
5.9.4. Performance Reviews
5.9.5. Inspection
5.9.6. Product Testing/Evaluation
5.9.7. Retrospectives and Lessons Learned

Module 6. Management of Technology Project resources

6.1. Responsibilities and Role of Project Human Resources:
6.1.1. Project Manager
6.1.2. Sponsor
6.1.3. Functional Manager
6.1.4. Program Manager
6.1.5. Portfolio Manager
6.1.6. Team Members

6.2. Technological Resources Management
6.2.1. What Are Technological Resources?
6.2.2. Optimization
6.2.3. Valuation
6.2.4. Protection

6.3. Human Resource Management Planning and Estimating Activity Resources
6.3.1. Resource Management Plan
6.3.1.1. Data Representation
6.3.1.2. Organizational Theory
6.3.2. Resource Requirements
6.3.3. Estimation Base
6.3.4. Resource Breakdown Structure
6.3.5. Resource Document Updates

6.4. Different Powers of the Project Manager
6.4.1. Power and Influence
6.4.2. Reward Power
6.4.3. Punishment Power
6.4.4. Expert Power
6.4.5. Reference Power
6.4.6. Formal Power
6.4.7. Practical Exercises to Learn How to Use the Various Powers of the Project Manager

6.5. Acquisition of the Right Project Equipment for our Project
6.5.1. What is Equipment Acquisition?
6.5.2. Means of Equipment Acquisition
6.5.2.1. Contracting
6.5.2.2. Outsourcing
6.5.3. Decision-Making
6.5.3.1. Availability
6.5.3.2. Cost
6.5.3.3. Experience
6.5.3.4. Skills
6.5.3.5. Knowledge
6.5.3.6. Capabilities
6.5.3.7. Attitude
6.5.3.8. International Factors
6.5.4. Pre-assignment
6.5.5. Virtual Teams

6.6. Development of Interpersonal Skills (Soft Skills):
6.6.1. Leadership
6.6.2. Motivation
6.6.3. Communication
6.6.4. Influence
6.6.5. Group Facilitation
6.6.6. Creativity
6.6.7. Emotional Intelligence
6.6.8. Decision Making

6.7. Project Team Development
6.7.1. Recognition and Rewards
6.7.1.1. Preconditions to Be Fulfilled in Order to Apply It
6.7.1.2. Create Recognition and Rewards
6.7.2. Training
6.7.3. Tight-Matrix
6.7.4. Communication Technologies
6.7.5. Team Building Exercises

6.8. Project Team Management. Performance Appraisals, Project Team Management
6.8.1. Plan
6.8.2. Types of Assessments
6.8.2.1. Personal Assessments 360º Assessments
6.8.2.2. Team Assessment
6.8.3. Variables Definition
6.8.4. Design of the Performance Evaluation System
6.8.5. Implementation and Training of Evaluators

6.9. Conflict Management and Resolution Techniques
6.9.1. What Are a Project Conflicts? Types
6.9.2. Collaborate/Problem Solve
6.9.3. Compromise/Reconcile
6.9.4. Withdraw/Avoid
6.9.5. Smooth/Accommodate
6.9.6. Force/Direct
6.9.7. Practical Exercises to Know When to Use Each Conflict Resolution Technique

6.10. Emerging Trends and Practices in Technology Project Resource Management
6.10.1. Methods for Resource Management
6.10.2. Emotional Intelligence (EI)
6.10.3. Self-Organized Teams
6.10.4. Virtual Teams/ Distributed Teams
6.10.5. Considerations for Adaptation
6.10.6. Considerations for Agile/Adaptive environments

Module 7. Communications and Stakeholder Management for Technology Projects

7.1. Planning of Communication Management
7.1.1. Why Is a Communications Management Plan Important?
7.1.2. Introduction to Communication Management
7.1.3. Communications Analysis and Requirements
7.1.4. Communication Dimensions
7.1.5. Tools and Techniques

7.2. Communication Skills
7.2.1. Conscious Emission
7.2.2. Active Listening
7.2.3. Empathy
7.2.4. Avoid Bad Gestures
7.2.5. Read and Write
7.2.6. Respect
7.2.7. Persuasion
7.2.8. Credibility

7.3. Effective, Efficient Communication and Types of Communication
7.3.1. Definition
7.3.2. Effective Communication
7.3.3. Efficient Communication
7.3.4. Formal Communication
7.3.5. Informal Communication
7.3.6. Written Communication
7.3.7. Verbal Communication
7.3.8. Practical Exercises on the Use of Communication Types on a Project

7.4. Communications Management and Control
7.4.1. Project Communications Management
7.4.2. Communication Models
7.4.3. Communication Methods
7.4.4. Project Communication Channels

7.5. Emerging Trends and Practices in the Communication Field
7.5.1. Evaluation of Communication Styles
7.5.2. Political Conscience
7.5.3. Cultural Conscience
7.5.4. Communication Technologies

7.6. Identification and Analysis of the Stakeholders
7.6.1. Why Is It Important to Manage Stakeholders?
7.6.2. Analysis and Register of Stakeholders
7.6.3. Interests and Concerns of Stakeholders
7.6.4. Considerations for Agile and Adaptive Environments

7.7. Stakeholder Management Planning
7.7.1. Adequate Management Strategies
7.7.2. Tools and Techniques

7.8. Stakeholder Engagement Management Strategy
7.8.1. Methods for Increasing Support and Minimizing Resistance
7.8.2. Tools and Techniques

7.9. Monitoring of Stakeholders Involvement
7.9.1. Stakeholder Performance Report
7.9.2. Tools and Techniques

Module 8. Risk Management of Technological Projects

8.1. Introduction to Risk Management
8.1.1. Definition of Risks
8.1.1.1. Threats
8.1.1.2. Opportunities
8.1.2. Types of Risks

8.2. Basic Concepts
8.2.1. Severity
8.2.2. Attitudes towards Risk
8.2.3. Individual Risk Vs General Risk
8.2.4. Risk Categories

8.3. Risk Management: Benefits

8.4. Trends in Risk Management
8.4.1. Non-event Risks
8.4.2. Project Resilience
8.4.3. Risks in Agile and Adaptive Environments

8.5. Planning Risk Management
8.5.1. Develop the Risk Management Plan
8.5.2. Tools and Techniques

8.6. Identify Risks
8.6.1. Project Risk Register
8.6.2. Tools and Techniques

8.7. Perform Qualitative Risk Analysis
8.7.1. Qualitative Risk Analysis
8.7.1 1. Definition
8.7.1.2. Representation
8.7.2. Tools and Techniques

8.8. Perform Quantitative Risk Analysis
8.8.1. Quantitative Risk Analysis: Definition and Representation
8.8.2. Tools and Techniques
8.8.3. Modelling and Simulation
8.8.4. Sensitivity Analysis
8.8.5. Contingency Reserve Calculation

8.9. Risk Response Planning and Implementation
8.9.1. Develop the Risk Response Plan
8.9.2. Types of Threat Strategies
8.9.3. Types of Strategies for Opportunities
8.9.4. Reservation Management
8.9.5. Tools and Techniques
8.9.6. Risk Response Implementation

8.10. Risk Monitoring
8.10.1. Concept of Risk Monitoring
8.10.2. Tools and Techniques

Module 9. Management of Technology Project Acquisitions

9.1. Introduction to Acquisition Management
9.1.1. Contract Definition

9.2. Basic Concepts
9.2.1. Contract Definition
9.2.2. The Project Manager and the Contract
9.2.3. Main Activities
9.2.4. Centralized and Decentralized Contracting

9.3. Acquisition Management: Benefits
9.3.1. Definition of the Procurement Strategy
9.3.2. Types of Strategies

9.4. Acquisitions in Adaptive Environments

9.5. Types of Contracts
9.5.1. Fixed Price Contacts
9.5.2. Reimbursable Cost Contracts
9.5.3. Time and Materials Contracts

9.6. Procurement Documentation
9.6.1. Types of Documents in the context of an Acquisition
9.6.2. Document Flows in Procurement Management

9.7. Negotiation with Suppliers
9.7.1. Supplier Negotiation Objectives
9.7.2. Supplier Negotiation Techniques

9.8. Planning Acquisition Management
9.8.1. Plan for Acquisition Management
9.8.2. Tools and Techniques

9.9. Procurement
9.9.1. Search, Selection and Evaluation of Offers
9.9.2. Tools and Techniques
9.9.3. Bid Weighting Matrix

9.10. Acquisition Monitoring and Control
9.10.1. Procurement Monitoring and Control Points by Contract Type
9.10.2. Tools and Techniques

Module 10. pmp® or capm® Certification and Code of Ethics Emerging Trends and Practices in the Management and Direction of Technology Projects

10.1. What Is PMP®, CAPM® and PMI®?
10.1.1. What Is PMP®
10.1.2. CAPM®
10.1.3. PMI®
10.1.4. PMBOK

10.2. Advantages and Benefits of Obtaining PMP® and CAPM® Certification
10.2.1. Techniques and Tips for Passing the PMP® and CAPM® Certification Exam on the First Attempt
10.2.2. PMI-isms

10.3. Professional Experience Report to PMI® (Project Management Technology Institute)
10.3.1. Becoming a PMI® Member
10.3.2. PMP® and CAPM® Certification Examination Entry Requirements
10.3.3. Analysis of the Student's Professional Experience
10.3.4. Student Work Experience Report Help Template
10.3.5. PMI® Software Experience Report

10.4. PMP® or CAPM® Certification Examination
10.4.1. What Is the PMP® or CAPM® Certification Examination Like?
10.4.2. Number of Scoring and Non-scoring Questions
10.4.3. Duration of the Exam
10.4.4. Passing Threshold
10.4.5. Number of Questions per Process Group
10.4.6. Rating Methodology

10.5. Agile Methodologies
10.5.1. Agile
10.5.2. SCRUM
10.5.3. Kanban
10.5.4. Lean
10.5.5. Comparison with PMI® Certifications

10.6. Software Development in Agile Methodologies
10.6.1. Analysis of the Different Software on the Market
10.6.2. Advantages and Benefits

10.7. Advantages and Limitations of Implementing Agile Methodologies in your Technology Projects
10.7.1. Advantages
10.7.2. Limitations
10.7.3. Agile Methodologies vs Traditional Tools

07

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.

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.

Relearning Methodology

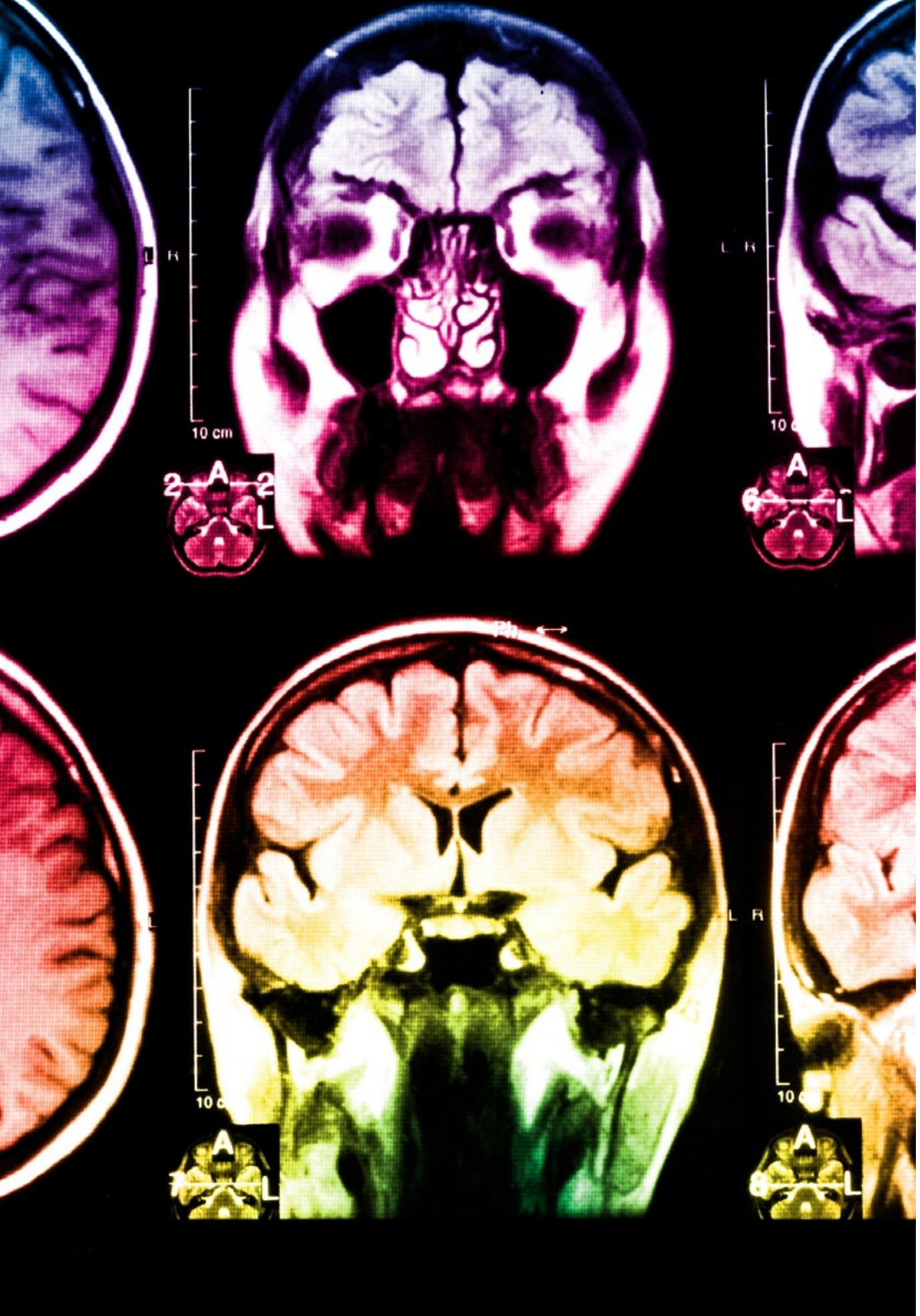
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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.

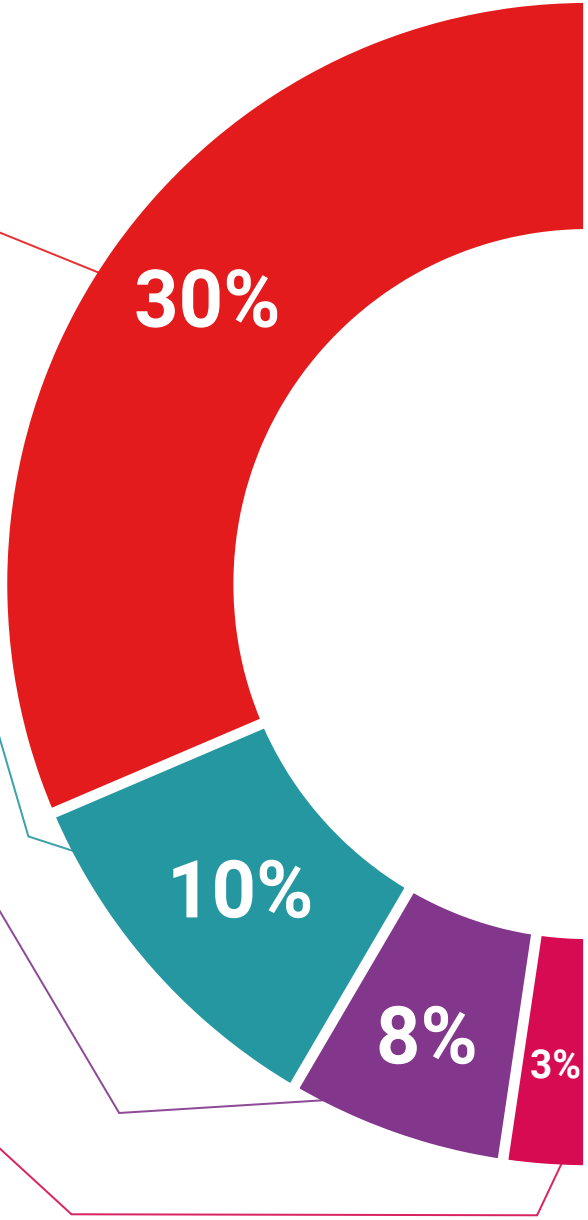
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

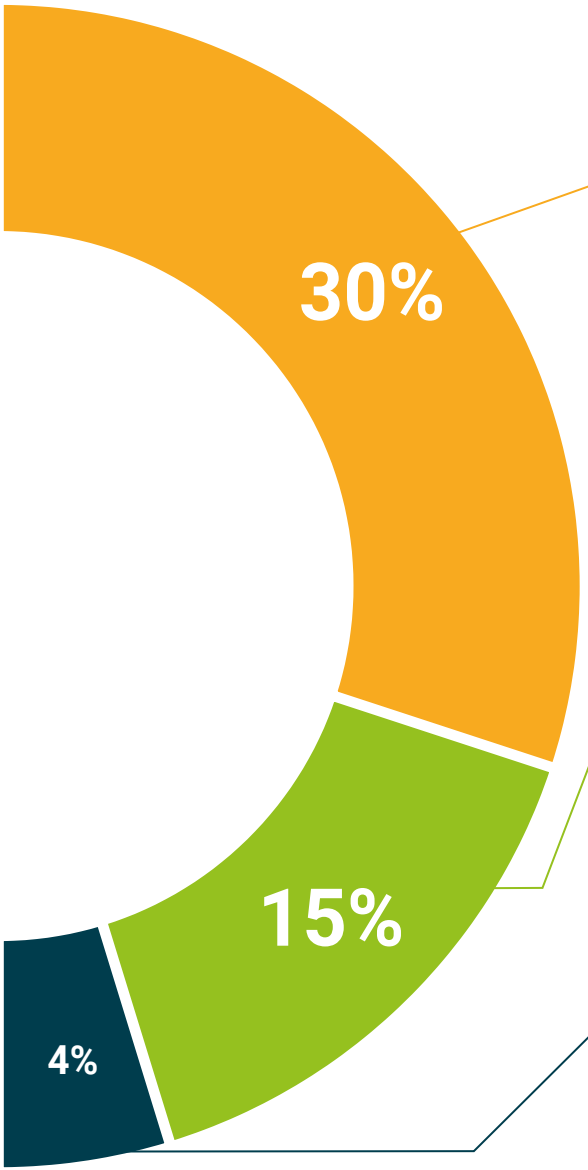
Management Skills Exercises

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.

08

Our Students' Profiles

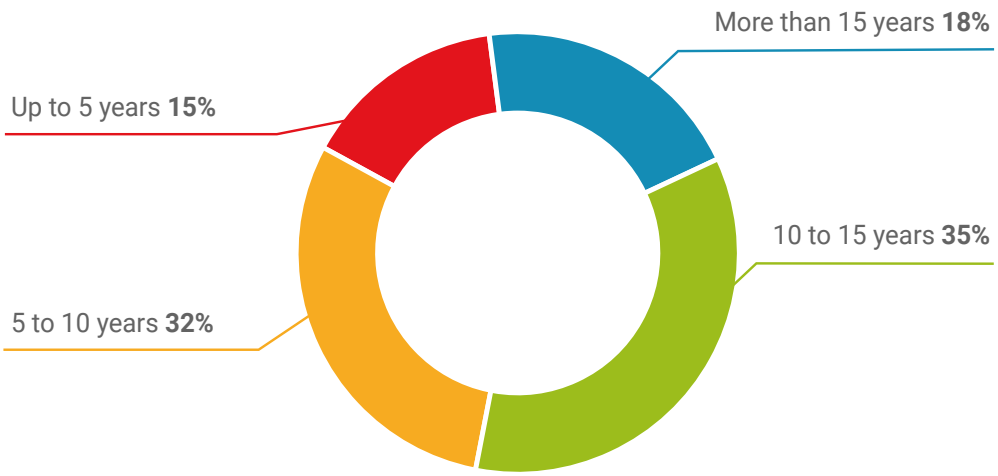
This Executive Master's Degrees in Technological Project Management is a program aimed at experienced professionals who want to update their knowledge and advance in their professional career. This program uses a multidisciplinary approach as the students have a diverse set of academic profiles and represent multiple nationalities.

Obtain the necessary skills and abilities for proper decision making in project management, in all types of multidisciplinary contexts and environments"

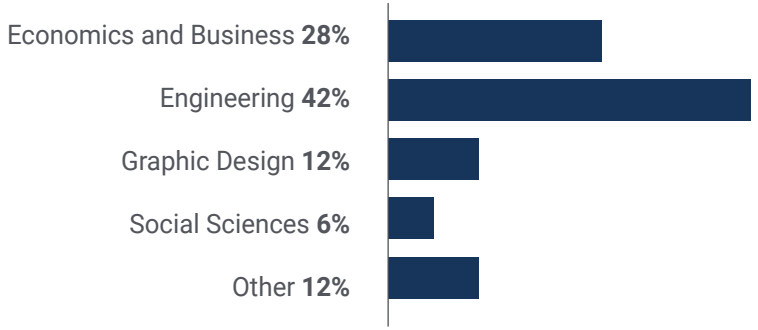
Average Age

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

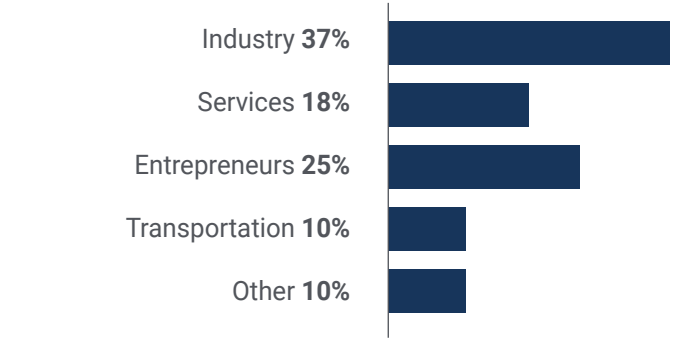
Years of Experience



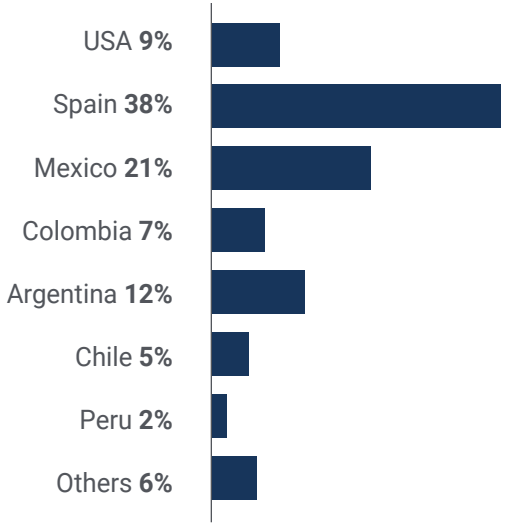
Training



Academic Profile



Geographical Distribution



Francisco Díaz

Technology Project Manager

"At TECH I have found the opportunity I had been looking for a long time to achieve higher training in the field of Technology Project management. In this way, thanks to its 100% online format I have been able to follow the academic itinerary without any problem, using my free time to be able to improve and move up in my job"

09

Course Management

The program's teaching staff includes leading experts in the sector, who bring to this program the experience of their years of work. In addition, other specialists of recognized prestige in related areas participate in its design and elaboration, completing the Executive Master's Degrees in an interdisciplinary way, making it, therefore, a unique and highly nourishing experience at an academic level for the student.

We have a teaching team with extensive experience that will help you to specialize in this sector"

Management

Dr. Romero Mariño, Brunil Dalila

- Database Administration OCREM Association Granada
- Software projects and technological architecture consultant for different companies Venezuela
- University Professor of Computer Science Department of Processes and Systems Simón Bolívar (USB) University Venezuela
- Researcher in Software Engineering and related areas Department of Processes and Systems Simón Bolívar (USB) University Venezuela
- Systems Engineer from Universidad Bicentenaria de Aragua (UBA). Venezuela
- Expert in Communications and Data Communication Networks, Universidad Central de Venezuela (UCV)
- Master's degree in Systems Engineering from Universidad Simón Bolívar (USB) Venezuela
- D. in Information and Communication Technologies from the University of Granada (UGR). Spain

10

Impact on Your Career

TECH is aware that taking a program of these characteristics is a great economic, professional and, of course, personal investment. The ultimate goal of this great effort should be to achieve professional growth. For this reason, TECH puts all its efforts and tools at the student's disposal so that they can acquire the necessary skills and abilities to achieve this change.

We are fully committed to helping you achieve the professional change you want"

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

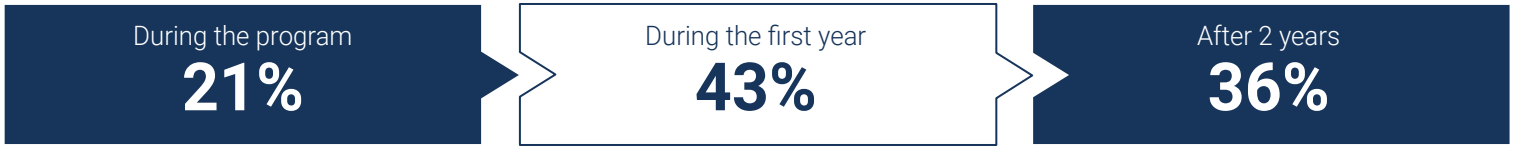
This intensive TECH program prepares students to face challenges and decisions in the management of Technology Projects. The main objective is to promote your personal and professional growth. Help you to achieve success.

Therefore, those who wish to improve themselves, achieve a positive change at a professional level and interact with the best, will find their place at TECH.

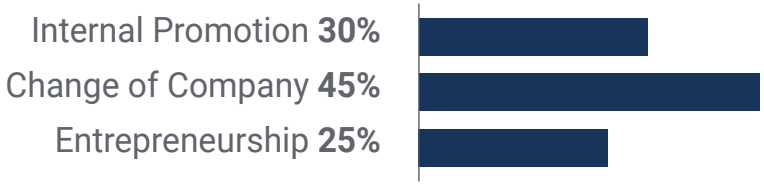
Do not miss the opportunity to train with us and you will find the improvement you were looking for.

If you want to make a positive change in your profession, this is your opportunity.

When the change occurs



Type of change



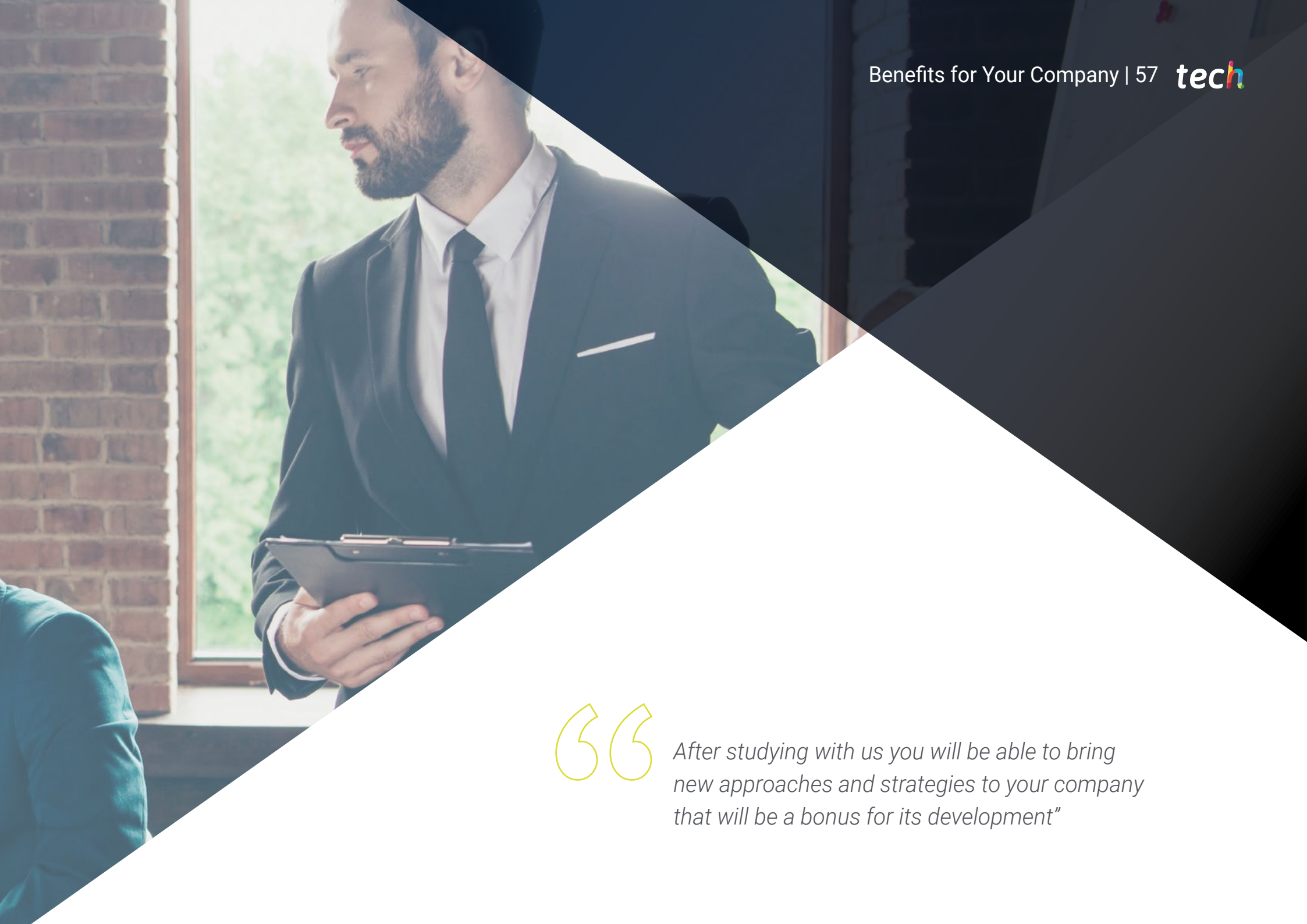
Salary increase

The completion of this program represents a salary increase of more than 25% for TECH students.

11

Benefits for Your Company

The Executive Master's Degrees in Technology Project Management contributes to raising the organization's talent to its maximum potential through the specialization of high-level leaders. Therefore, participating in this academic program will not only improve you on a personal level, but, above all, on a professional level, enhancing your training and improving your managerial skills. Additionally, joining TECH's educational community is a unique opportunity to access a powerful network of contacts in which to find future professional partners, clients, or suppliers.



After studying with us you will be able to bring new approaches and strategies to your company that will be a bonus for its development"

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

01

Intellectual Capital and Talent Growth

The executive 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 executive and opens new avenues for professional growth within the company.

03

Building agents of change

The manager will be able to make decisions in times of uncertainty and crisis, helping the organization 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

The management will be able to work on a real project or develop new projects in the field of R&D or Business Development of their company.

06

Increased competitiveness

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

12

Certificate

The Executive Master's Degrees in Technology Project Management guarantees you, in addition to the most rigorous and up-da-ted training, access to a Executive Master's Degrees issued by TECH Technological University.

Successfully complete this program and receive your university degree without travel or laborious paperwork”

This **Executive Master's Degrees in Technology Project Management** contains the most complete and updated program on the market.

After the student has passed the evaluations, they will receive their corresponding **Executive Master's Degrees** issued by **TECH Technological University** by tracked delivery*.

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

Degree: **Executive Master's Degrees in Technology Project Management**

Official Nº of hours: **1,500 h.**


tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having successfully passed and accredited the following program

EXECUTIVE MASTER'S DEGREES

in

Technology Project Management

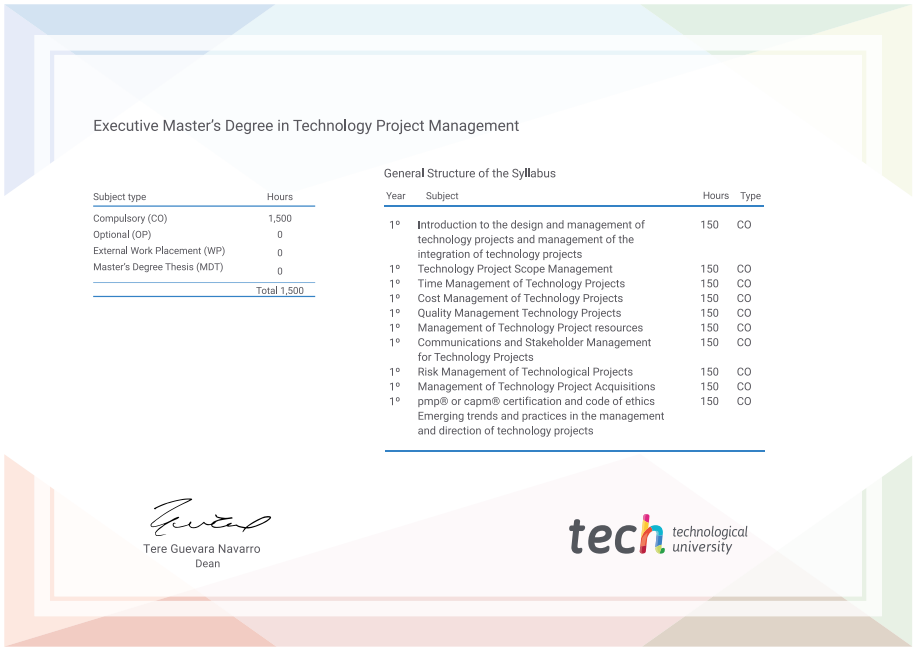
This is a qualification awarded by this University, equivalent to 1,500 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country. Unique TECH Code: AFWORD23S techtitute.com/certificates


Executive Master's Degree in Technology Project Management

Subject type	Hours
Compulsory (CO)	1,500
Optional (OP)	0
External Work Placement (WP)	0
Master's Degree Thesis (MDT)	0
	Total 1,500

General Structure of the Syllabus

Year	Subject	Hours	Type
1º	Introduction to the design and management of technology projects and management of the integration of technology projects	150	CO
1º	Technology Project Scope Management	150	CO
1º	Time Management of Technology Projects	150	CO
1º	Cost Management of Technology Projects	150	CO
1º	Quality Management Technology Projects	150	CO
1º	Management of Technology Project resources	150	CO
1º	Communications and Stakeholder Management for Technology Projects	150	CO
1º	Risk Management of Technological Projects	150	CO
1º	Management of Technology Project Acquisitions	150	CO
1º	pmp® or capm® certification and code of ethics Emerging trends and practices in the management and direction of technology projects	150	CO

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*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.

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Executive Master's Degrees
Technology Project Management

- Modality: **online**
- Duration: **12 months**
- Certificate: **TECH Technological University**
- Dedication: **16h/week**
- Schedule: **at your own pace**
- Exams: **online**

Executive Master's Degrees

Technology Project Management

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