Advanced Master's Degree

Technology Project Management within the Company

AMDTPMC

tech technological university

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Advanced Master's Degree

Technology Project Management within the Company

Course Modality: **Online**

Duration: **2 years**

Accreditation **TECH Technological University**

Official Nº of hours: **3,000 h.**

Acceso web: **www.techtitute.com/escuela-de-negocios/grand-master/grand-master-gestion-proyectos-tecnologicos-empresa**

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01

Welcome

The success of a company depends, to a large extent, on the projects that are carried out and, consequently, in order to be successful, they must be properly managed. This process is even more important when it comes to technology projects, since these move in complex and changing environments, so it is necessary for professionals in the sector to be trained to adapt to these changes. This program in Technology Project Management within the Company has been created to train professionals in the management and direction of technology projects. Quality content which is up to date with the latest developments is the base that will allow you to develop your skills in this field to become a true professional.

Professional Master's Degree in Management of Technological Projects in the Company.
TECH Technological University

Specialize in technology project management and achieve professional success for you and your company"

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 program is designed to strengthen the student's management and leadership skills, as well as to develop new competencies and skills that will be essential in their professional development. After the program, you will be equipped to make global decisions with an innovative perspective and an international vision.

One of our fundamental objectives is to help you develop the essential skills to strategically lead technology projects"

Your goals are our goals.
We work together to help you achieve them.

This Professional Master's in Technology Project Management within the Company will train you to:

01 Increase the employability of the professional studying this program

02 Improve the salary level that professionals have at the time of obtaining this degree

03 Moving from the technical management side to the managerial side within organizations

04 Improve knowledge of areas complementary to project management; Business strategy and financial management and financial management

05 Improving the management of people and high-performance teams

06 Understanding how to manage companies, work and people in environments of high uncertainty

07 Have a horizontal and vertical vision of the organizations

08 Improve execution capacity

09 Improve creativity

10 Know how to work more effectively, more agile and more aligned with new technologies and current tools

11 Learn what the key legal aspects are when writing a project contract

12 Know the best methods to get your team not only involved but also committed to them

13 Understand the importance of corporate social responsibility as an essential part of any project

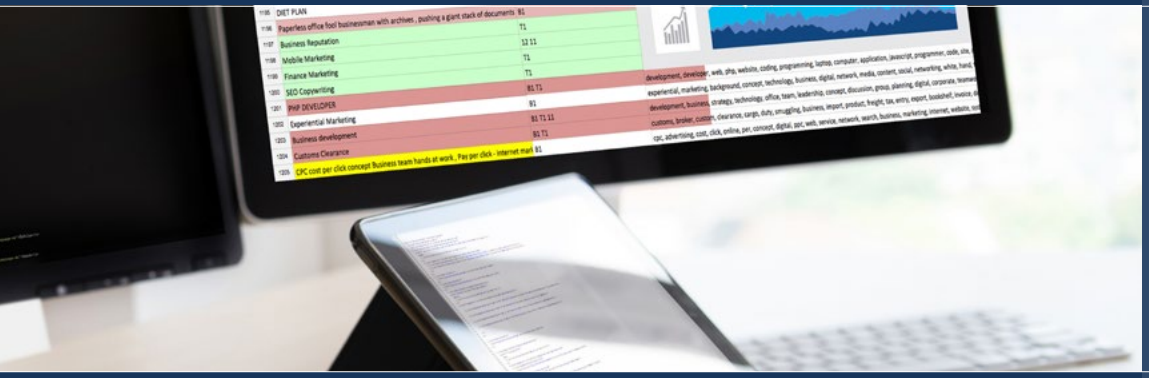
14 Learn to generate ideas that add value to organizations

15 Identify non-value-added tasks to be eliminated

16 Develop the ability to predict in environments of high uncertainty

17 Know how to break down the strategy into portfolios, programs and projects

18 Develop the ability to manage several projects at the same time



19 Know how to distribute workloads of shared resources among several projects

20 Know how to prioritize and delay projects and ideas within an organization

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

22 Develop the ability to analyze and diagnose business and management problems in the different areas of knowledge of project management

23 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

25 Take responsibility and think in a transversal and integrative way to analyze and solve situations in uncertain environments

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

26 Develop the minutes of incorporation of technology projects

27 Carry out a comprehensive control of all projects

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

28 Knowing how to estimate the time needed in each process of project design and development

30 Give importance to the quality of the projects

31 Understanding the cost of failing to meet project quality

32 Perform quality controls at each stage of the project

33 Gain skills and techniques to manage human resources and be able to resolve conflicts in the team.

34 Knowing the emerging trends in the market

35 Develop communication skills

36 Understanding and managing the risks of technology projects.

05

Skills

After passing the evaluations of the Professional Master's Degree in Technological Project Management within the Company, the professional will have acquired the necessary competences for a quality and up-to-date praxis based on the most innovative didactic methodology.

Develop yourself in a booming industry by acquiring the skills and abilities you need to succeed in the workplace"

01 Achieve a financial understanding of the company

02 Understand the relationship between business strategy, portfolios, programs and projects

03 Learn to manage companies in environments of high uncertainty

04 Manage of your own personal time and the time of others

05 Understand the relationship between scope, time and cost

06 Learn to communicate in changing environments and crisis environments

07 Understand how to manage a high-performance team.

08 Learn to perform tasks in an agile way, minimizing time and eliminating tasks that do not add value

09 Know how to analyze the income statement of companies

10 Understand the main financial indicators of organizations

11 Design and implement PMO structures within an organization

12 understand the keys to successful R+D+I management in organizations

13 Calculate the viability of a project before its execution

14 Identify the direct and indirect costs associated with any business activity

15 Successfully manage projects and technologies to achieve business objectives

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

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

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

19 Manage the scope of technology projects

20 Estimating the duration of projects and managing them appropriately

21 Understanding the human and material resources required to carry out a project

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

23 Apply new trends in the field of communication

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

06

Structure and Content

This Professional Master's Degree in Technology Project Management within the Company is a program designed to suit the professional, which is taught in a 100% online format so that you can choose the time and place that best suits your availability, schedule and interests.

A program that takes place over 24 months and is intended to be a unique and stimulating experience that lays the foundation for your success as a manager and entrepreneur.

The skills and competencies that you acquire when you undertake a program of this type are fundamental. Therefore, we give you all the facilities so that you do not miss the opportunity to study at TECH"

Syllabus

This Professional Master's Degree in Technology Project Management within the Company from TECH Technological University is an intensive program that prepares the professional to face challenges and business decisions both nationally and internationally. Its content is designed to promote the development of managerial skills that enable more rigorous decision-making in uncertain environments.

Throughout 3,000 hours of study, a multitude of practical cases will be analyzed through individual work, achieving a contextual learning that will be very useful for transferring it to the professional's daily practice. It is, therefore, an authentic immersion in real business situations.

This Professional Master's Degree in Technology Project Management within the Company deals in depth with different areas of the company and is designed for managers to understand the management of technology projects from a strategic, international and innovative perspective.

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

This program is developed over 24 months and is divided into two blocks and 19 modules:

Module 1	Strategic Project Management
Module 2	Project Scope and Schedule
Module 3	Project Financial Management
Module 4	Recruitment and Project Quality
Module 5	People and Resource Management
Module 6	Innovative Organizations and Projects
Module 7	Agile Methodologies
Module 8	PMO
Module 9	Project Risk Management
Module 10	Introduction to Project Finance

Module 11	Introduction to technology project design and management and technology project integration management
Module 12	Scope management of technology projects
Module 13	Time management of technology projects
Module 14	Cost management of technology projects
Module 15	Quality management of technological projects
Module 16	Management of technology project resources
Module 17	Communications and stakeholder management for technology projects
Module 18	Technology project procurement management
Module 19	PMP® or CAPM® certification and code of ethics. Emerging trends and practices in technology project management and governance

Where, When and How is it Taught?

TECH offers the possibility of developing this program completely online. During the 24 months of training, the professional will be able to access all the contents of this program at any time, which will allow the student to self-manage study time.

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

Module 1. Strategic Project Management

1.1. Strategic Project Management and the Company
1.2. Competitive Business Strategy
1.3. Corporate Business Strategy
1.4. Project Management Framework
1.5. Integration and Knowledge Management
1.6. Areas of Knowledge in Project Management
1.7. Project Change Management:
1.8. Stakeholder Management
1.9. Project Communication Management
1.10. Traditional and Innovative Methodologies

Module 2. Project Scope and Schedule

2.1. Program and Project Portfolio Management
2.2. Project Scope Management
2.3. Requirements Gathering and Scope Definition
2.4. Breakdown of Project Objective into Activities (WBS)
2.5. Validate and Control the Scope
2.6. Strategic Time Planning in Project Management
2.7. Project Life Cycle
2.8. Efficient Time and Deadline Planning
2.9. Task Estimation Tools
2.10. Schedule Execution and Control

Module 3. Project Financial Management

3.1. Financial Plan
3.2. Financial Model
3.3. Project Viability Analysis
3.4. Project Sensitivity Management
3.5. Project Cost Management
3.6. Project Cost Estimation
3.7. Project Cost Control - EVM
3.8. Economic Analysis of Decisions
3.9. Ms Project Tools
3.10. Digital Tools and Systems for Project Management

Module 4. Recruitment and Project Quality

4.1. Acquisition Planning	4.3. Supplier Relationship Management	4.5. Contract Management and Administration	4.6. Project Sale Management
4.2. Supplier Search Planning	4.4. Legal Aspects of Recruitment		4.7. Lean Management
4.8. Process Improvement Techniques	4.9. Total Quality Management and Advanced Project Management	4.10. Lean Tools for Project Management	

Module 5. People and Resource Management

5.1. Organizational Culture	5.2. Organization Management	5.3. Talent Management and Commitment	5.4. Motivation
5.5. People Management and the Project Manager	5.6. Corporate Responsibility	5.7. Professional Ethics	5.8. Executive Skills and Management Techniques of the Project Manager
5.9. Negotiation	5.10. Management of Project Resources		

Module 6. Innovative Organizations and Projects

6.1. Organizational Change Management	6.2. Communication in Organizations	6.4. Process Engineering and Product Engineering	6.5. Strategic Innovation Intelligence
	6.3. Creative Thinking: Innovation		6.6. Entrepreneurship and Innovation
6.7. Launch and Industrialization of New Products	6.8. R+D+I Management Systems	6.9. Direction and Management of R+D+I Projects	6.10. Project Management for Startups

Module 7. Agile Methodologies

7.1. Introduction to Agile Methodologies
7.2. Iterative, Adaptive, Predictive and Hybrid Lifecycles
7.3. Introduction to Scrum
7.4. Agile Team Management
7.5. Scrum Events
7.6. Artifacts in Scrum
7.7. Agile Estimating and Planning
7.8. Metrics
7.9. Collaborative Tools
7.10. Organizational Agility

Module 8. PMO

8.1. Introduction to the Project Management Office
8.2. Functions of the Project Management Office
8.3. Creating the Conditions for Change Leading Organizational Change
8.4. PMO Vision and Strategy
8.5. PMO Model Design
8.6. PMO Resource Plan
8.7. PMO Implementation
8.8. PMO Operation and Tools
8.9. *Project Management* Culture and Knowledge Management in the Organization
8.10. Agile PMO

Module 9. Project Risk Management

9.1. Introduction to Risk Management
9.2. Project Risk Management Planning
9.3. Risk Identification
9.4. Qualitative Risk Analysis
9.5. Risk Prioritization
9.6. Quantitative Risk Analysis
9.7. Scenario Analysis and Risk Response Plans
9.8. Implementation of Risk Response
9.9. Risk Monitoring and Control
9.10. Lessons Learned and Knowledge Management

Module 10. Introduction to Project Finance

10.1. Introduction to corporate finance

10.2. Financial statements and cash flows

10.3. El Value of Money and Discounted Cash Flows

10.4. Fixed income and its valuation

10.5. Equities and their valuation

10.6. Financial investment criteria: capital budgeting

10.7. Project analysis

10.8. Risk and return: the cost of capital

10.9. Liability structure

10.10. Treasury and International Finance

Module 11. Introduction to technology project design and management and technology project integration management

11.1. Introduction to technology project management
- 11.1.1. The role of the project manager
- 11.1.2. Project definition
- 11.1.3. Organizational structure

11.2. Project management, program management and portfolio management
- 11.2.1. Portfolios, programs and projects
- 11.2.2. Strategic Management

11.3. Standards and best practices for the management of technology projects
- 11.3.1. Prince2.
- 11.3.2. PMP
- 11.3.3. ISO 21500:2012

11.4. Organizational influences on the design and management of technology projects.
- 11.4.1. Environmental factors of a company
- 11.4.2. Assets of an organization's processes

11.5. Technology project management processes
- 11.5.1. Life cycle of technology projects
- 11.5.2. Process groups
- 11.5.3. Dynamics of process groups

11.6. Development of the technology project constitution act
- 11.6.1. Definition of the charter of incorporation of technology projects
- 11.6.2. Tools and techniques

11.7. Development of the plan for the design and management of technological projects.
- 11.7.1. Definition of the plan for the design and management of technological projects.
- 11.7.2. Tools and techniques

11.8. Knowledge management of technological projects
- 11.8.1. Importance of knowledge management in technology projects
- 11.8.2. Tools and Techniques

11.9. Monitoring the work of technology projects
- 11.9.1. Work monitoring and control
- 11.9.2. Follow-up reports on technology projects
- 11.9.3. Tools and Techniques

11.10. Integrated control of changes in technological projects
- 11.10.1. Objectives and benefits of project change control
- 11.10.2. El CCB (Change Control Board)
- 11.10.3. Tools and Techniques

11.11. Delivery and closure of technology projects
- 11.11.1. Objectives and benefits of project closure
- 11.11.2. Tools and Techniques

Module 12. Scope management of technology projects

12.1. Introduction to Risk Management
12.1.1. Project Scope
12.1.2. Product Scope

12.2. Fundamentals of Scope Management
12.2.1. Basic Concepts.
12.2.2. Scope Baseline

12.3. Benefits of Scope Management
12.3.1. Stakeholder expectation management
12.3.2. *Scope Creep* & *Gold Plating*

12.4. Considerations for Adaptive Environments
12.4.1. Types of Adaptive Projects
12.4.2. Scope Definition in Adaptive Projects

12.5. Scope Management Planning
12.5.1. Scope Management Plan
12.5.2. Requirements Management Plan
12.5.3. Tools and Techniques

12.6. Gather Requirements
12.6.1. Requirements Gathering and Negotiation
12.6.2. Tools and Techniques

12.7. Definition of Scope
12.7.1. Project Scope Statement
12.7.2. Tools and Techniques

12.8. Creation of the Work Breakdown Structure (WBS)
12.8.1. Work Breakdown Structure (WBS)
12.8.2. Types of EDT
12.8.3. *Rolling Wave*
12.8.4. Tools and Techniques

12.9. Scope Validation
12.9.1. Quality vs Validation
12.9.2. Tools and Techniques

12.10. Scope Control
12.10.1. Project Management Data and Information
12.10.2. Types of Work Performance Reports
12.10.3. Tools and Techniques

Module 13. Time Management of Technology Projects

13.1. Estimated Duration of Project Tasks
13.1.1. Estimation by 3 Values
- 13.1.1.1. Most Likely (tM)
- 13.1.1.2. Optimistic (tO)
- 13.1.1.3. Pessimistic (tP)

13.1.2. Analogous Estimate
13.1.3. Parametric Estimation
13.1.4. Bottom-up Estimates
13.1.5. Decision Making
13.1.6. Expert Judgment

13.2. Definition of Activities and Breakdown of the Project's Work
13.2.1. Decomposition
13.2.2. Define Activities
13.2.3. Breakdown of Project Work
13.2.4. Activity Attributes
13.2.5. List of Milestones

13.3. Sequencing of activities
13.3.1. List of Activities
13.3.2. Attributes of the Activities
13.3.3. Method of Precedence Diagramming
13.3.4. Determination and Integration of Units
13.3.5. Advances and Delays
13.3.6. Network Diagram of the Project Schedule

13.4. Estimation of Activity Resources
13.4.1. Register of Assumptions
13.4.2. List of activities
13.4.3. Attributes of the Activities
13.4.4. Register of Assumptions
13.4.5. Lessons Learned Register
13.4.6. Project Team Assignments
13.4.7. Resource Breakdown Structure

13.5. Estimated Duration of Activities
13.5.1. Law of Diminishing Returns
13.5.2. Number of Resources
13.5.3. Technological Advances
13.5.4. Staff Motivation
13.5.5. Project Documentation

13.6. Schedule Development
13.6.1. Schedule Network Analysis
13.6.2. Critical Path Method
13.6.3. Resource Management
- 13.6.3.1. Resource Leveling
- 13.6.3.2. Stabilization of Resources

13.6.4. Advances and Delays
13.6.5. Schedule Compression
- 13.6.5.1. Intensification
- 13.6.5.2. Fast Execution

13.6.6. Baseline Schedule
13.6.7. Project Timeline
13.6.8. Schedule Data
13.6.9. Project Schedules

13.7. Types of Relationships and Types of Dependencies between all Project Activities
13.7.1. Mandatory Dependencies
13.7.2. Discretionary Units
- 13.7.2.1. Preferred Logic
- 13.7.2.2. Preferential Logic
- 13.7.2.3. Soft Logic

13.7.3. External Units
13.7.4. Internal Units

13.8. Time Management Software in Technology Projects
13.8.1. Analysis of Different Software
13.8.2. Types of Software
13.8.3. Functionalities and Coverage
13.8.4. Utilities and Advantages

13.9. Schedule Control
13.9.1. Job Performance Information
13.9.2. Schedule Forecasts
13.9.3. Change Requests
13.9.4. Update to the Time Management Plan
13.9.5. Project Document Updates

13.10. Time Recalculation
13.10.1. Critical Path
13.10.2. Calculation of Minimum and Maximum Times
13.10.3. Project Clearances
- 13.10.3.1. What Is It?
- 13.10.3.2. How to use it?

13.10.4. Total Slack
13.10.5. Free Clearance

Module 14. Cost management of technology projects

14.1. What is the Cost Management Plan?
14.1.1. Planning Tools and Techniques
14.1.2. Cost Planning Results

14.2. Estimate Costs. Types of Estimates. Reserve Analysis
14.2.1. Useful Information for Cost Estimation
14.2.2. Tools and Techniques for Cost Estimation
14.2.3. Results of Cost Budget Preparation

14.3. Types of Project Costs
14.3.1. Direct and Indirect Costs
14.3.2. Fixed and Variable Costs

14.4. Project Evaluation and Selection
14.4.1. Financial Dimensions of a Project
14.4.2. VAN
14.4.3. TIR & RRN
14.4.4. Payback period

14.5. Setting the Budget
14.5.1. Useful Information for the Preparation of the Project Budget
14.5.2. Tools and Techniques for Cost Budget Preparation
14.5.3. Results of Project Budget Preparation

14.6. Cost Projections
14.6.1. Cost Management Data and Information
14.6.2. Types of Cost Performance Reports

14.7. Earned Value Technique (EVM)
14.7.1. Base Variables and Status Variables
14.7.2. Forecasts
14.7.3. Emerging Techniques and Practices

14.8. Project Cash Flow
14.8.1. Types of cash flows
14.8.2. Estimation of Net Cash Flows Associated with a Project
14.8.3. Discounted Cash Flows
14.8.4. Application of Risk to Cash Flows

14.9. Cost Control
14.9.1. Objectives and Benefits of Cost Control
14.9.2. Tools and Techniques

Module 15. Quality management of technological projects

15.1. Importance of Quality Management in Projects
15.1.1. Key Concepts
15.1.2. Difference between Quality and Grade
15.1.3. Precision
15.1.4. Accuracy
15.1.5. Metrics

15.2. Quality Theorists
15.2.1. Edwards Deming
  15.2.1.1. Shewart-Deming Cycle (*Plan Do -Check*-Act)
15.2.2. Continuing Improvement
15.2.3. Joseph Juran. Pareto Principle
  15.2.3.1. Fitness-for-purpose Theory
15.2.4. Total Quality Management Theory
15.2.5. Kaoru Ishikawa (Herringbone)
15.2.6. Philip Crosby (Cost of Low Quality)

15.3. Regulations: ISO Business School 21500
15.3.1. Introduction
15.3.2. Background and History
15.3.3. Objectives and characteristics
15.3.4. Process group-Subject group
15.3.5. ISO 21500 vs. PMBOK
15.3.6. Future of the Standard

15.4. Emerging Trends and Practices in Quality Management
15.4.1. Policy Compliance and Auditing
15.4.2. Standards and Compliance
15.4.3. Continuing Improvement
15.4.4. *Stakeholder* Engagement
15.4.5. Recurring Retrospectives
15.4.6. Subsequent Retrospectives

15.5. Quality Management Planning
15.5.1. Cost-benefit Analysis
15.5.2. Multi-criteria Decision Analysis
15.5.3. Test Planning and Inspection
15.5.4. Flow Diagrams
15.5.5. Logical Data Model
15.5.6. Matrix Diagram
15.5.7. Interrelationship Digraphs

15.6. Quality Compliance and Noncompliance Costs
15.6.1. Compliance Costs
15.6.2. Non-compliance or Non-conformance Costs
15.6.3. Prevention Costs
15.6.4. Valuation Costs
15.6.5. Internal Failures
15.6.6. External Failures
15.6.7. Marginal Cost of Quality
15.6.8. Optimum Quality

15.7. Quality Management
15.7.1. Checklists
15.7.2. Analysis of Alternatives
15.7.3. Document Analysis
15.7.4. Process Analysis
15.7.5. Root Cause Analysis
15.7.6. Cause-and-effect Diagrams
15.7.7. Histograms
15.7.8. Scatter Plots
15.7.9. Design for X
15.7.10. Quality Improvement Methods

15.8. Quality Audits
15.8.1. What is an Internal Quality Audit?
15.8.2. Different Types of Audits
15.8.3. Objectives of an Internal Audit
15.8.4. Benefits of Internal Audits
15.8.5. Actors Involved in Internal Auditing
15.8.6. Internal Audit Procedure

15.9. Quality Control
15.9.1. Verification Sheets
15.9.2. Statistical Sampling
15.9.3. Questionnaires and Surveys
15.9.4. Performance Reviews
15.9.5. Inspection
15.9.6. Product Testing/Evaluation
15.9.7. Retrospectives and Lessons Learned

Module 16. Management of technology project resources

16.1. Responsibilities and Role of Human Resources in Projects

16.1.1. Project Manager
16.1.2. Sponsor
16.1.3. Functional Director
16.1.4. Program Manager
16.1.5. Portfolio Manager
16.1.6. Team members

16.2. Management of Technological Resources

16.2.1. What are Technological Resources?
16.2.2. Optimization
16.2.3. Valorization
16.2.4. Protection

16.3. Human Resources Management Planning and Estimation of Resources for Activities

16.3.1. Resources Management Plan
  16.3.1.1. Data Representation
  16.3.1.2. Organizational Theory
16.3.2. Resource Requirements
16.3.3. Basis of Estimates
16.3.4. Resource Breakdown Structure
16.3.5. Resource Document Updates

16.4. Different Powers of the Project Manager

16.4.1. Power and Influence
16.4.2. Reward Power
16.4.3. Power of Punishment
16.4.4. Expert Power
16.4.5. Power of Reference
16.4.6. Formal Power of Attorney
16.4.7. Practical Exercises on How to use the Various Powers of the Project Manager

16.5. Acquisition of the Right Project Equipment for our Project

16.5.1. What is Equipment Acquisition?
16.5.2. Means of Equipment Acquisition
  16.5.2.1. Hiring
  16.5.2.2. Outsourcing
16.5.3. Decision Making
  16.5.3.1. Availability
  16.5.3.2. Costs
  16.5.3.3. Experience
  16.5.3.4. Skills
  16.5.3.5. Knowledge
  16.5.3.6. Capabilities
  16.5.3.7. Attitude
  16.5.3.8. International Factors
16.5.4. Pre-assignment
16.5.5. Virtual Teams

16.6. Development of Interpersonal Skills (soft skills)

16.6.1. Leadership.
16.6.2. Motivation
16.6.3. Communication.
16.6.4. Influence
16.6.5. Group Facilitation
16.6.6. Creativity
16.6.7. Emotional Intelligence
16.6.8. Decision Making

16.7. Project Team Development

16.7.1. Recognition and Rewards
  16.7.1.1. Preconditions to be Met for its Application
  16.7.1.2. Create a Recognition and Reward System
16.7.2. Training
16.7.3. Coubication (tight matrix)
16.7.4. Communication technology
16.7.5. Team Building Activities

16.8. Project team management. Performance Evaluations, Management of Project Teams

16.8.1. Plan
16.8.2. Types of Assessments
  16.8.2.1. Personal Evaluations 360º Evaluations
  16.8.2.2. Equipment Evaluations
16.8.3. Variables Definition
16.8.4. Design of the Performance Evaluation System
16.8.5. Implementation and Training of Evaluators

16.9. Conflict Management and Conflict Resolution

16.9.1. What are Project Conflicts? Types
16.9.2. Cooperate and Solve Problems (*collaborative/ problem* solve)
16.9.3. To Compromise / to Consent (Compromise / Council)
16.9.4. *withdraw/avoid*
16.9.5. smooth/accommodate
16.9.6. Force/Direct
16.9.7. Practical Exercises to Know When to use Each Conflict Resolution Technique.

16.10. Emerging Trends and Practices in the Management of Technology Project Resources.

16.10.1. Methods for Resource Management
16.10.2. Emotional Intelligence (EI)
16.10.3. Self-organized Teams
16.10.4. Virtual teams/distributed teams
16.10.5. Considerations for Adaptation
16.10.6. Considerations for Agile/Adaptive Environments

Module 17. Communications and Stakeholder Management for Technology Projects

17.1. Communications Management Planning
17.1.1. Why is a Communications Management Plan important?
17.1.2. Introduction to Communications Management
17.1.3. Communications Analysis and Requirements
17.1.4. Dimensions of Communications
17.1.5. Techniques and Tools

17.2. Communication Skills
17.2.1. Conscious Emission
17.2.2. Active Listening
17.2.3. Empathy
17.2.4. Avoid Bad Gestures
17.2.5. Reading and Writing
17.2.6. Respect
17.2.7. Persuasion
17.2.8. Credibility

17.3. Effective, Efficient Communication and Types of Communication
17.3.1. Definition
17.3.2. Effective Communication
17.3.3. Efficient Communication
17.3.4. Formal Communication
17.3.5. Informal Communication
17.3.6. Written Communication.
17.3.7. Verbal Communication
17.3.8. Practical Exercises on the use of Communication Types in a Project

17.4. Communications Management and Control
17.4.1. Project Communications Management
17.4.2. Communication Models
17.4.3. Communication Methods
17.4.4. Project Communications Channels

17.5. Emerging Trends and Practices in the Field of Communication.
17.5.1. Evaluation of Communication Styles
17.5.2. Political Awareness
17.5.3. Cultural Awareness
17.5.4. Communication Technology

17.6. Stakeholder Identification and Analysis
17.6.1. Why is it Important to Manage Stakeholders?
17.6.2. Stakeholder Analysis and Registration
17.6.3. Stakeholder Interests and Concerns
17.6.4. Considerations for Agile and Adaptive Environments

17.7. Stakeholder Management Planning
17.7.1. Appropriate Management Strategies
17.7.2. Tools and techniques

17.8. Stakeholder participation Management. Management strategy
17.8.1. Methods for Increasing Support and Minimizing Resistance
17.8.2. Tools and techniques

17.9. Stakeholder Involvement Monitoring
17.9.1. Stakeholder Performance Report
17.9.2. Tools and techniques

Module 18. Technology project procurement management

18.1. Introduction to Acquisition Management
18.1.1. Definition of Contract
18.1.2. Legal Framework acquisitions

18.2. Basic Concepts
18.2.1. Definition of Contract
18.2.2. The Project Manager and the Contract
18.2.3. Main Activities
18.2.4. Centralized and Decentralized Contracting

18.3. Procurement Management: Benefits
18.3.1. Definition the Acquisition Strategy.
18.3.2. Types of Strategies

18.4. Acquisitions in Adaptive Environments

18.5. Types of Contracts
18.5.1. Fixed Price Contracts
18.5.2. Reimbursable Cost Contracts
18.5.3. Time and Materials Contracts

18.6. Procurement Documentation
18.6.1. Types of Documents in the Context of an Acquisition
18.6.2. Document Flows in Procurement Management

18.7. Negotiation with Suppliers
18.7.1. Supplier Negotiation Objectives
18.7.2. Negotiation Techniques with Suppliers

18.8. Procurement Management Planning
18.8.1. Procurement Management Plan
18.8.2. Tools and techniques

18.9. Procurement
18.9.1. Search, Selection and Evaluation of Bids
18.9.2. Tools and techniques
18.9.3. Bid Weighting Matrix

18.10. Procurement Monitoring and Control
18.10.1. Procurement Monitoring and Control Points by Contract Type
18.10.2. Tools and techniques

Module 19. PMP® or CAPM® Certification and Code of Ethics. Emerging Tendencies and Practices

19.1. What is PMP®, CAPM® and PMI®?
19.1.1. What is PMP®?
19.1.2. CAPM®
19.1.3. PMI®
19.1.4. PMBOK

19.2. Advantages and Benefits of obtaining PMP® and CAPM® certification
19.2.1. Techniques and Tricks to Pass the PMP® and CAPM® Certification Exams on the First Attempt.
19.2.2. PMI-isms

19.3. Professional Experience Report to the PMI® (Project Management and Design Institute).
19.3.1. Becoming a PMI® Member
19.3.2. PMP® and CAPM® Certification Exam Entry Requirements
19.3.3. Analysis of the Student's Professional Experience
19.3.4. Student Work Experience Report Help Template
19.3.5. PMI® Software Experience Report

19.4. PMP® Certification Exam or CAPM® Exam
19.4.1. What is the PMP® or CAPM® Certification Exam Like?
19.4.2. Number of Scoring and Non-scoring Questions
19.4.3. Duration of the Exam
19.4.4. Passing Threshold
19.4.5. Number of Questions per Process Group
19.4.6. Qualification Methodology

19.5. Agile Methodologies
19.5.1. AGILE
19.5.2. Scrum
19.5.3. Kanban
19.5.4. LEAN
19.5.5. Comparison with PMI® Certifications

19.6. Software Development in Agile Methodologies
19.6.1. Analysis of the Different Software on the Market
19.6.2. Advantages and Benefits

19.7. Advantages and Limitations of Implementing Agile Methodologies in your technology projects
19.7.1. Advantages
19.7.2. Limitations
19.7.3. Agile Methodologies vs. Traditional Tools

19.8. Code of Ethics in the Management of your Projects
19.8.1. Responsibility
19.8.2. Respect
19.8.3. Impartiality
19.8.4. Honesty

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

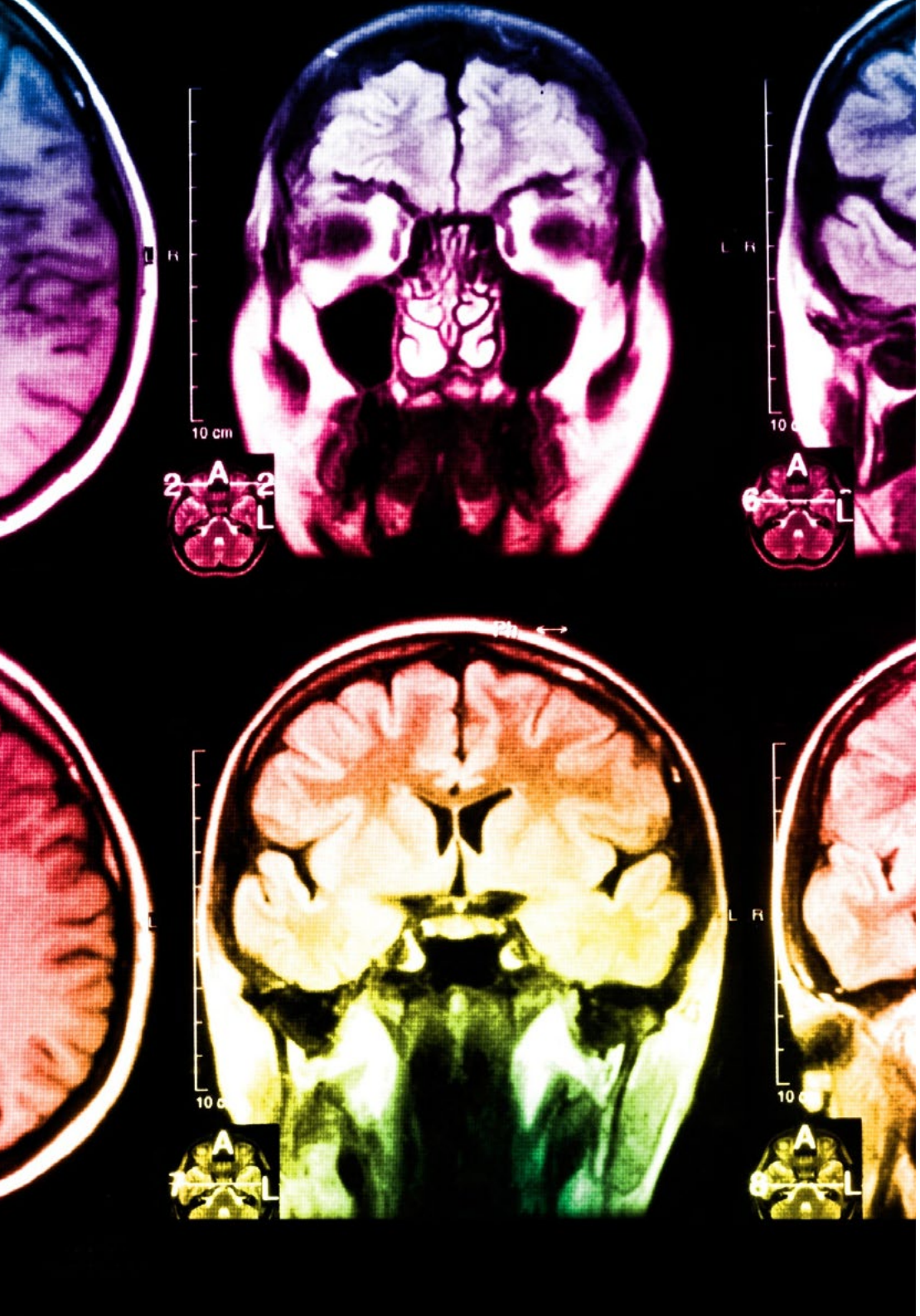
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines different teaching elements in each lesson.

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.

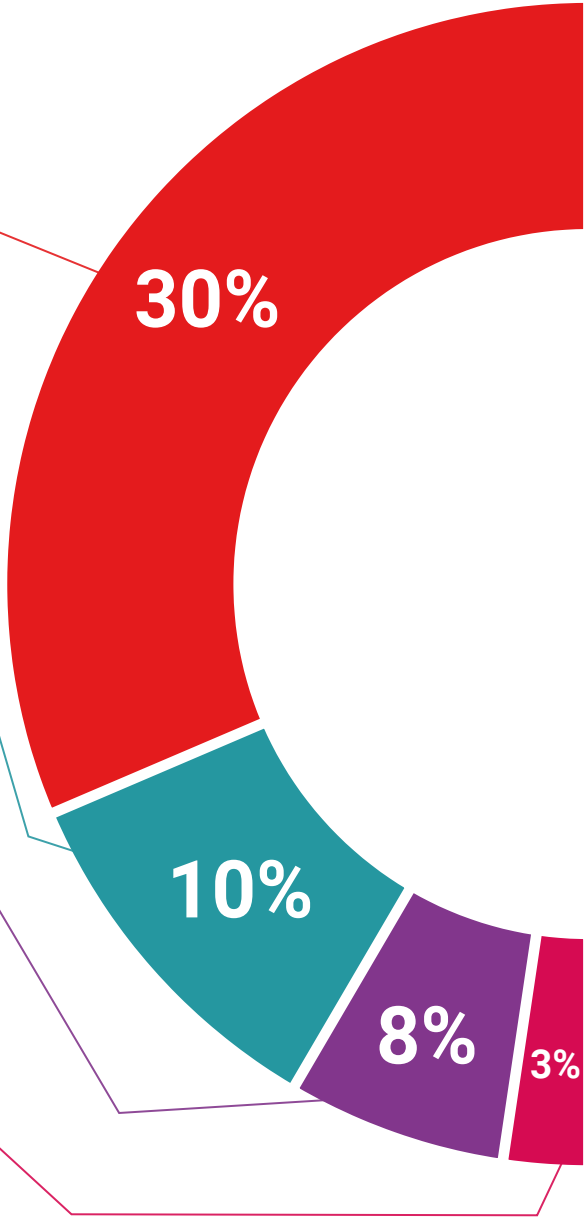
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

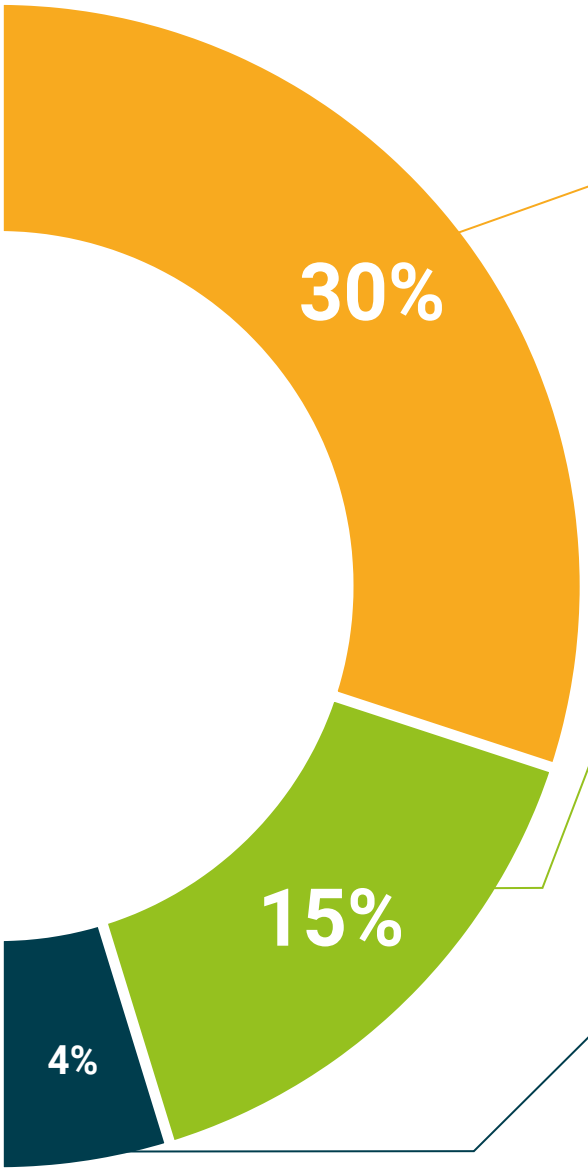
Management Skills Exercises

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

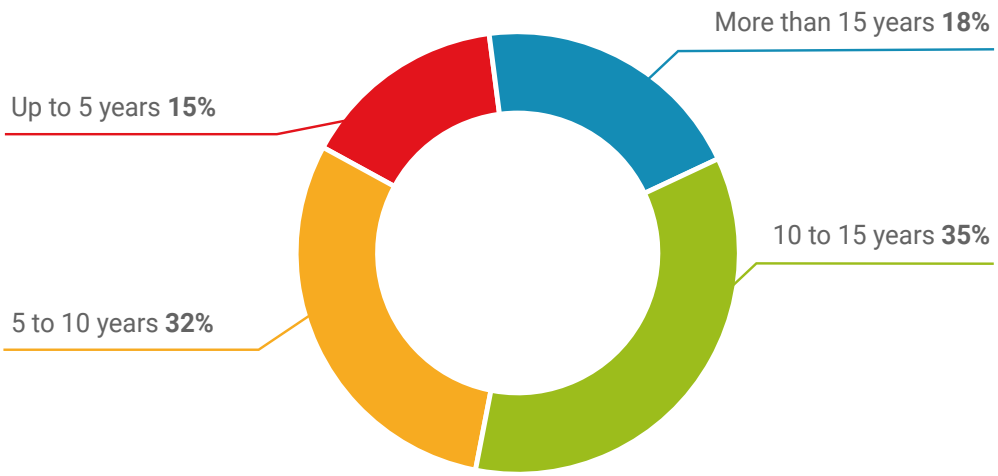
This Professional Master's Degree in Technology Project Management within the Company is a program aimed at experienced professionals who want to update their knowledge and advance in their professional career. This program uses a multidisciplinary approach as the students have a diverse set of academic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

If you have experience in project management and are looking for an interesting career enhancement while continuing to work, this is the program for you"

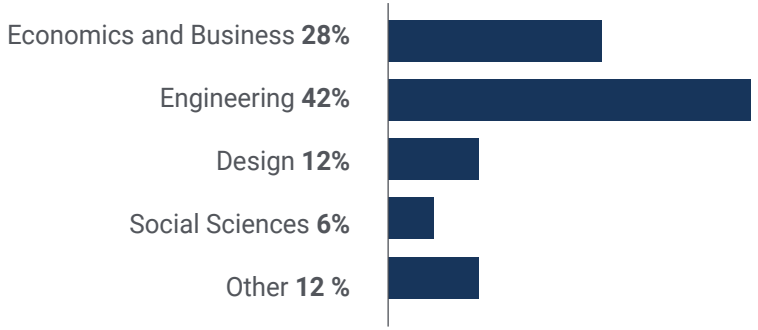
Average Age

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

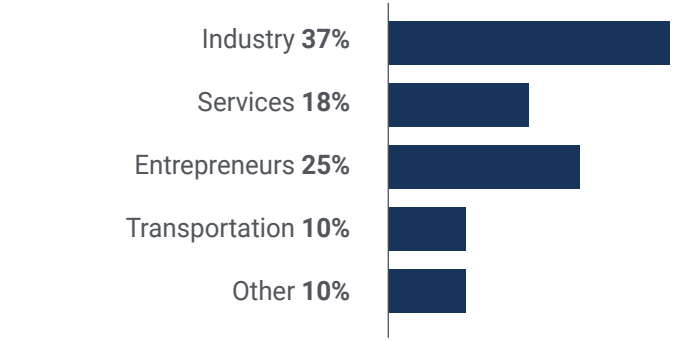
Years of Experience



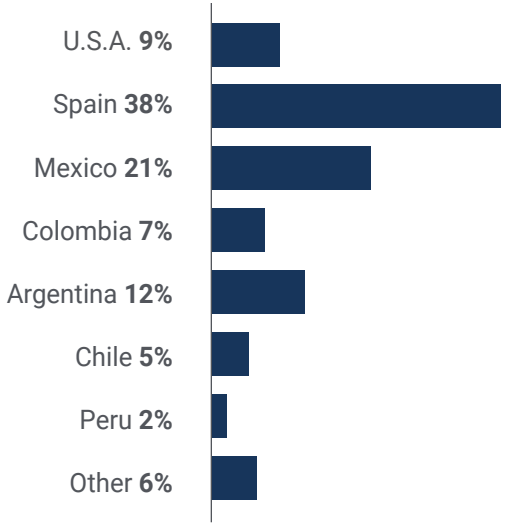
Training



Academic Profile



Geographical Distribution



Mr. Manuel Pérez

Managing director of a multinational company

"When I decided to take this Advanced Master's Degree I had many doubts because, although I knew it was essential for my career, I doubted that I would be able to successfully complete it, having to combine it with other daily obligations. However, I took the plunge and today I believe it has been one of the most enriching experiences at the academic level. The digital content greatly enhances their study and the high quality of the faculty makes the experience even more enriching"

09

Course Management

The program includes in its teaching staff leading experts in the management and direction of technological projects, who bring to this program the experience of their years of work. Furthermore, other renowned specialists in related disciplines participated in designing and preparing the course, making it a unique and highly nourishing academic experience for the student.

A complete teaching staff to train you for professional success"

Management

Mr. Pampliega, Carlos

- Architect specialized in Project and Risk Management
- Certified Project Management Professional (PMP)
- Professional Scrum Master certified by Scrum.org
- Active member of PMI-Madrid Spain Chapter Since 2013
- Director of PMI Castilla y León Branch, the delegation in Castilla y León 2013
- He regularly participates as a speaker in presentations and courses, as well as in congresses organized by PMI
- Consultant and Trainer in Project Management at different universities and business schools
- Member of the Editorial Board of the scientific journal Building & Management
- Member of the PMO Global Alliance Awards Judges Committee

Dr. Roji Ferrari, Salvador

- Vice-Dean of International Relations, Faculty of Economics and Business Studies, Complutense University of Madrid
- D. in Accounting and Finance. Complutense University of Madrid. 1997
- Degree in Journalism, Complutense University of Madrid, 1971-1977
- Master's Degree in Sciences of Finance. University of Maryland & Baltimore 1990
- Master's Degree in Business Administration (MBA). University of Maryland & Baltimore, 1989
- Professor of the Faculty of Economics and Business Administration, Department of Financial Administration and Accounting. Since 1994
- He has published 6 books on finance and business economics, as well as a multitude of articles and chapters on both divulgation and research


Financial plan of product line development
Table N 12
Customization
Help
Log Out

10

Impact on Your Career

We are aware that studying a program like this entails great economic, professional and, of course, personal investment. The ultimate goal of this great effort should be to achieve professional growth.

And, therefore, we put all our efforts and tools at your disposal so that you acquire the necessary skills and abilities that will allow you to achieve this change.

We help you with our program to generate a positive change in your professional career"

Don't miss the opportunity to study the most complete technology project management program on the market.

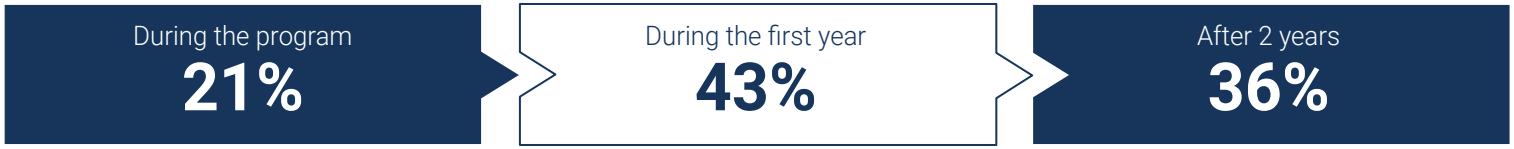
Are you ready to take the leap? Excellent professional development awaits you

This Professional Master's Degree in Technology Project Management within the Company from TECH Technological University is an intensive program that prepares the professional to face challenges and business decisions both nationally and internationally. Its main objective is to promote your personal and professional growth, and thus help you achieve success.

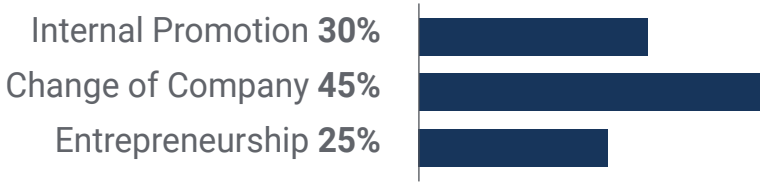
If you want to improve yourself, make a positive change at a professional level and interact with the best, this is the place for you.

If you are looking for an improvement at work, at TECH we put all our resources at your disposal to help you achieve it.

When the change occurs



Type of change



Salary increase

This program represents a salary increase of more than **25%** for our students.

11

Benefits for Your Company

This Professional Master's Degree in Technology Project Management contributes to elevate the organization's talent to its maximum potential through the specialization of high-level leaders. Therefore, participating in this academic program will improve not only on a personal level but, above all, on a professional level, increasing the professional's training and improving his or her management skills. But, in addition, joining the TECH educational community is a unique opportunity to access a powerful network of contacts in which to find future professional partners, customers or suppliers.

After completing this Advanced Master's Degree you will bring a new business visión to the company"

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

01

Intellectual Capital and Talent Growth

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

02

Retaining high-potential executives to avoid talent drain

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

03

Building agents of change

The professional 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 professional will work on a current project or develop new projects in the field of R&D or Business Development within 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

This Advanced Master's Degree in Technological Project Management within the Company guarantees, in addition to the most rigorous and update training, access to a Advanced Master's Degree issued by TECH Technological University.

Successfully complete this training and receive your university degree without travel or laborious paperwork"

This **Advanced Master's Degree in Management of Technological Projects in the Company** contains the most complete and updated program on the market.

After you have passed the evaluations, you will receive your corresponding **Advanced Master's Degree** issued by **TECH Technological University** via tracked delivery*.

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

Title: **Advanced Master's Degree in Technology Project Management within the Company**

Official N° of hours: **3,000 h.**


tech technological university

Awards the following

DIPLOMA

to

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

For having successfully passed and accredited the following program

ADVANCED MASTER'S DEGREE

in

Technology Project Management within the Company

This is a qualification awarded by this University, equivalent to 3,000 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


Advanced Master's Degree in Technology Project Management within the Company

General Structure of the Syllabus

Year	Subject	Hours	Type
1°	Strategic Project Management	157	CO
1°	Project Scope and Schedule	157	CO
1°	Project Financial Management	157	CO
1°	Recruitment and Project Quality	157	CO
1°	People and Resource Management	157	CO
1°	Innovative Organizations and Projects	157	CO
1°	Agile Methodologies	157	CO
1°	PMO	157	CO
1°	Project Risk Management	157	CO
1°	Introduction to Project Finance	157	CO

Year	Subject	Hours	Type
2°	Introduction to technology project design and management and technology project integration management	157	CO
2°	Scope management of technology projects	157	CO
2°	Time management of technology projects	157	CO
2°	Cost management of technology projects	157	CO
2°	Quality management of technological projects	157	CO
2°	Management of technology project resources	157	CO
2°	Communications and stakeholder management for technology projects	157	CO
2°	Technology project procurement management	157	CO
2°	PMP® or CAPM® certification and code of ethics. Emerging trends and practices in technology project management and governance	157	CO

Tere Guevara Navarro
Dean

tech technological university

*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.

tech technological university

Advanced Master's Degree

Technology Project Management within the Company

Course Modality: **Online**

Duration: **2 years**

Accreditation **TECH Technological University**

Official Nº of hours: **3,000 h.**

Advanced Master's Degree

Technology Project Management within the Company

tech technological university