Executive Master's Degree

Advanced Technology Project Management

MATPM

tech *technological university*

Executive Master's Degree
Advanced Technology
Project Management

- » Modality: **online**
- » Duration: **12 months**
- » Certificate: **TECH Technological University**
- » Dedication: **16h/week**
- » Schedule: **at your own pace**
- » Exams: **online**
- » Target Group: **Computer Engineering University Graduates**

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

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01

Welcome

Nowadays, given the voracious digitalization that is taking over almost every process, most companies are forced to include technology project managers among their ranks. This professional profile must have in depth technical knowledge of the tasks to be performed, as well as the ability to carry out skillful team management in order to maximize value and performance. TECH offers to business professionals programs such as this one to prepare them to perform this function, increasing their economic prospects as well as their professional and personal growth. All of this is based on a curriculum full of complete and updated case studies aimed at fulfilling the needs required by the technological business world.

Executive Master's Degree in Advanced Technology Project Management.
TECH Technological University

Managing technological projects requires a highly specialized and qualified professional who has outstanding management and leadership skills. With this Executive Master's Degree, you will be able to lead the most ambitious and attractive projects in your field"

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.

TECH strives for excellence and, to this end, boasts a series of characteristics that make this university unique:

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"

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.

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

The objective of this program is to strengthen leadership skills in the technology sector, offering the best tools and specialized knowledge to successfully lead any type of project. The program offers both theoretical and business content that takes into account current environments and markets, thus ensuring an updated education in line with the latest trends.

If your goal is to lead large technology projects, TECH gives you the resources you need to be a competent, effective and productive leader"

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

The **Executive Master's Degree in Advanced Technology Project Management** helps students to:

01 Specialize in the main Frameworks to direct and manage of IT projects

04 Determine leadership as a support model with respect to traditional authoritarian methodologies

02 Learn the most appropriate techniques used in people and team management with the objective of favoring well being and productivity

03 Work with the different analytical method used in strategic decision making

05 Analyze processes and requirements to develop software projects

06 Address the issues involved in data management in terms of protection and security, applying and complying with current regulations

08 Study Enterprise Resource Planning and Customer Relationship Management to improve decision making

09 Identify the different business intelligence techniques to anticipate potential problems and offer preventive solutions

07 Know the fundamental methodologies used for project development such as SDLC, Agile or object-oriented programming

10 Investigate the combination of knowledge and techniques from different disciplines in order to propose cross-disciplinary solutions

11 Develop management skills at strategic, organizational and project levels, from value proposition to business transformation strategies design

14 Address the importance of correctly using Scorecards to automate monitoring the achievement of objectives

12 Emphasize the importance of data in project management and understand how analytics can be used to focus team efforts

13 Understand the use of Google Analytics as a key tool in data analysis and learn how to improve decision making based on the data obtained

15 Examine incident management methods to implement them and promote better workflows

16 Study the main regulatory frameworks for data security and protection in order to ensure working methodologies comply with current legislation

17 Analyze the divergent realities in which technology companies operate in the face of changes in society

18 Contemplate emotional intelligence as a basic tool in optimizing business results

Skills

Once students have completed the Executive Master's Degree in Advanced Technology Projects Management, they will be able to lead work teams in the technology field in an agile and efficient way, applying innovative methodology used for data analysis and project management. This will greatly increase their professional skills, as well as their own possibilities of professional growth by being able to apply for better management positions that require greater specialization and skills.

You will meet the requirements demanded by large technological companies so you can lead their most demanding projects"

01 Use the main tools on the market to monitor KPIs and control the execution and progress of any project with respect to the strategy set

02 Use Scrum and Kanban methodology correctly and efficiently in projects
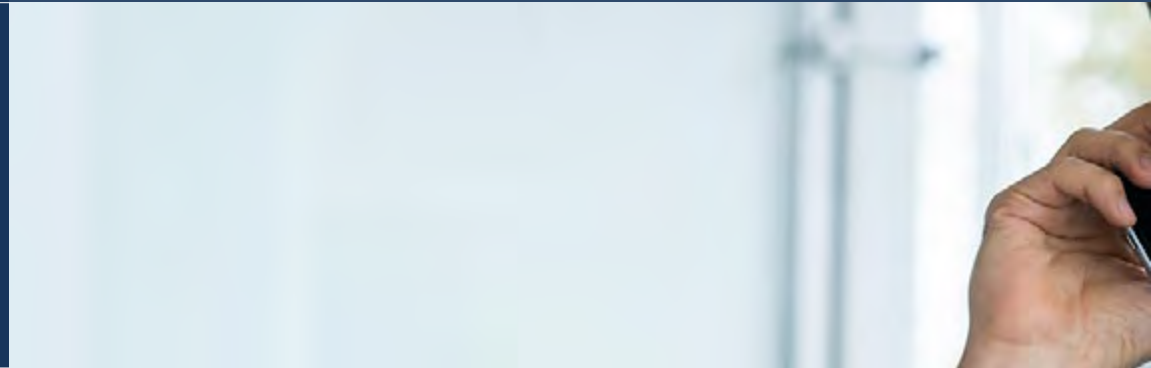
03 Develop the most common enterprise information management systems

04 Determine the importance of quality management in software project management and learn to apply the necessary criteria to control it

05 Design a database with process analysis and integrated methodology in project management

06 Learn communication skills, whether verbal or non-verbal, and add quality to the company's interpersonal relationships

08 Determine management systems accessible in real time

09 Define strategies for favorable conflict resolution in the use of innovative negotiation techniques

07 Establish direct communication between company departments and customers or clients

10 Effectively communicate analytics results to technical and non-technical audiences

11 Design control strategies for project and process monitoring

12 Propose, communicate and elaborate business models or business transformation models justifying their benefits and opportunity for organizations

13 Understand the differences between different data warehousing paradigms: Data Lake, Data Warehouse and Data Mart

14 Analyze web sites or digital platforms to optimize the way users interact with various functionalities

15 Apply techniques based on data analysis to improve the overall results of the organization

16 Review and audit new software development products and related activities throughout the development cycle

17 Develop techniques to ensure compliance with data protection regulations in project management

18 Apply coaching in the business environment to improve educational processes

Structure and Content

The Executive Master's Degree in Advanced Technology Project Management is a program that adapts to the needs of its students, and since it is 100% online, they can choose to study when it suits their availability and particular interests This is a great opportunity to catapult anybody's career to managerial positions in the technology field.

TECH guarantees you access to the best curriculum available in Advanced Technology Project Management so you can apply for the highest management positions in the sector"

Syllabus

The Executive Master's Degree in Advanced Technology Project Management offered by TECH Technological University is a comprehensive program that trains students for decision-making and effective leadership of multidisciplinary teams, emphasizing the importance of the technical knowledge required in the technology field.

The content of the Executive Master's Degree in Advanced Technology Project Management contains the most advanced methodology and techniques used in business leadership, always focused on technology project management.

During the 1,500 hours that make up the program, students will study a multitude of real, practical cases, making the educational experience more immersive in real business situations.

This Executive Master's Degree explores the new perspective of the leader as a figure of trust, moving away from the traditional authoritarian perspective by addressing issues such as work team emotional intelligence or non-verbal communication that seeks to improve relations within the company itself.

A curriculum that prepares students for the most ambitious management positions in the technology industry, helping them to achieve excellence in leadership and business management.

The 10 modules that make up this Executive Master's Degree, taught over 12 months, are as follows:

Module 1	Using Agile in Technology Project Direction and Management
Module 2	Requirements Management and Process Analysis in Software Development Projects
Module 3	Business Management: Technologies for Resource and Customer Management
Module 4	IT Project Management and Control Using Business Intelligence
Module 5	IT Project Strategic Monitoring and Control
Module 6	Digital Analytics for Decision-Making in Technology Projects
Module 7	Improving IT Projects and Businesses Using Analytical Techniques
Module 8	Quality in Software Project Management and Implementation
Module 9	Regulatory Compliance for Information Security in Technology Projects
Module 10	Team Management in IT Projects

Where, When and How is it Taught?

TECH offers the possibility of developing this Executive Master's Degree in Advanced Technology Project Management completely online. Over the course of 12 months, you will be able to access all the contents of this program at any time, allowing you to self-manage your study time.

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

Module 1. Using Agile in Technology Project Direction and Management

1.1. Project Management
1.1.1. Project Management
1.1.2. Phases of a Project

1.2. Project Direction According to the Project Management Institute
1.2.1. PMI and PMBOK
1.2.2. Project, Program and Project Portfolio
1.2.3. Evolution and Process Assets at Organizations That Work with Projects

1.3. Process Management according to the Process Management Institute
1.3.1. Process Groups and Knowledge Areas
1.3.2. Process Matrix

1.4. Agile Methodologies for Project Management
1.4.1. Application Motivation
1.4.2. Agile Values and Principles in the Agile Manifesto
1.4.3. Application Scenarios

1.5. Scrum for Agile Project Management: Framework Description
1.5.1. Agile Management Framework
1.5.2. Scrum Pillars and Values

1.6. Scrum for Agile Project Management: Implementing Models
1.6.1. Framework Implementation
1.6.2. People, Roles and Responsibilities on Scrum
1.6.3. Sprint Planning, Daily Scrum, Sprint Review, Sprint Retrospective and Sprint Refinement

1.7. Scrum for Agile Project Management
1.7.1. Product Backlog, Sprint Backlog and Incremental Backlog
1.7.2. Scrum Team Agreements
1.7.3. Performance Assessment

1.8. KANBAN for Agile Project Management
1.8.1. The Model
1.8.2. Kanban Method, Elements and Benefits
1.8.3. Typical Usage Scenarios

1.9. KANBAN for Agile Project Management: Implementing Models
1.9.1. Fundame
1.9.2. Application
1.9.3. Performance Assessment

1.10. Project Direction Model Selection
1.10.1. Criteria for Selecting a Management Model Type
1.10.2. Traditional Methods vs. Agile Methods
1.10.3. Conclusions

Module 2. Requirements Management and Process Analysis in Software Development Projects

2.1. Systems Analysis
2.1.1. Systems Analyst Functions
2.1.2. Software Development Cycle: SDLC and OO Agile
2.1.3. SDLC, OO and Agile

2.2. Importance of Systems Analysis and Design
2.2.1. Information Systems
2.2.2. Integrating IT Technologies: HW and Software
2.2.3. Methodology Selection

2.3. Software Development Life Cycle
2.3.1. Campaigns and Types
2.3.2. Redemption and Drive
2.3.3. Types of Strategies
2.3.4. Digital Marketing Plan

2.4. Systems Model and Design: Integration
2.4.1. Dependencies with Other Operating Systems in the Organization
2.4.2. Integration Using Project Management Methodologies such as PMBOK
2.4.3. Integration with Agile Methodologies

2.5. Requirements
2.5.1. Interactive Methods: Interviews, JAD and Questionnaires
2.5.2. Non-Interactive Methods: Observation and Revision Documents
2.5.3. Sampling Techniques: Sampling

2.6. Processes Analysis: DFDs
2.6.1. Multilevel DFD Development
2.6.2. Types of DFDs: Physical and Logical, Based on Events
2.6.3. Partitioning DFDs

2.7. Processes Analysis: Data Dictionary
2.7.1. Creating Data Dictionaries Based on Previous DAFD
2.7.2. Data Dictionary Nomenclature
2.7.3. XML Creation for Data Exchange with Other Systems

2.8. Processes Analysis: Processes Specifications
2.8.1. Structured and Semi-structured Decisions
2.8.2. If-The-Else
2.8.3. Decision Tables and Trees

2.9. Importance of Design
2.9.1. Output Design
2.9.2. Input Design
2.9.3. Validating Design

2.10. Database Design
2.10.1. Normalization of Data
2.10.2. E-R Diagrams: One-to-Many and Many-to-Many Relationships
2.10.3. Destandardization

Module 3. Business Management: Technologies for Resource and Customer Management

3.1. Enterprise Information Management and Storage Systems
3.1.1. Enterprise Resource Planning (ERP)
3.1.2. Customer Relationship Management
3.1.3. Enterprise Resource Planning vs. Customer Relationship Management
3.1.4. Enterprise Resource Planning and Customer Relationship Management in Business

3.2. Enterprise Resource Planning
3.2.1. Benefits of Enterprise Resource Planning in Companies
3.2.2. Implantation and Management
3.2.3. Enterprise Resource Planning Day-to-day

3.3. Enterprise Resource Planning and Management
3.3.1. ERP Modules
3.3.2. Enterprise Resource Planning System Types
3.3.3. Tools Available on the Market

3.4. Customer Relationship Management
3.4.1. Implementing Customer Relationship Management in Companies
3.4.2. Information System Design
3.4.3. Customer Relationship Management for Processes Implementation

3.5. Customer Relationship Management for Project Design
3.5.1. Current Situation
3.5.2. Sales or Loyalty
3.5.3. Customer Loyalty Profitability

3.6. Customer Relationship Management. Working with Information
3.6.1. Project Marketing and Management
3.6.2. Success Factors
3.6.3. Strategies

3.7. Customer Relationship Management. Communication Tools
3.7.1. Communication
3.7.2. Information
3.7.3. Active Listening
3.7.4. Investment Strategies in Information Systems

3.8. Customer Relationship Management. Dissatisfied Customer Recovery
3.8.1. Detecting Errors in Time
3.8.2. Correcting and Remedying Errors
3.8.3. Customer Recovery and Continuous Improvement Process Design

3.9. IT Projects
3.9.1. Objectives
3.9.2. Enterprise Resource Planning and Customer Relationship Management for Customer Acquisition
3.9.3. Projects Design
3.9.4. Assessing and Recording Results

3.10. Computer Project Development
3.10.1. Frequent Errors
3.10.2. Methodology
3.10.3. Segmentation and Processes
3.10.4. Training
3.10.5. Actions Design Applied to Customer Relationship Management and Enterprise Resource Planning

Module 4. IT Project Management and Control Using Business Intelligence

4.1. Business Intelligence
4.1.1. Business Intelligence
4.1.2. Data Management
4.1.3. Data Life Cycle
4.1.4. Architecture
4.1.5. Applications

4.2. IT Project Management Using Analytical Techniques
4.2.1. Business Intelligence Selection
4.2.2. Advantages of Using Business Intelligence in Projects
4.2.3. Examples and Applications

4.3. Harvesting and Storage
4.3.1. Business Models and Data Models
4.3.2. Types of Storage
4.3.3. Storing Big Data in the Cloud

4.4. Massive Data and Information Processing
4.4.1. Types of Data Processing
4.4.2. Techniques to Simplify Massive Processing
4.4.3. Cloud Processing

4.5. Analytical Techniques
4.5.1. Analytical Techniques
4.5.2. Predictive Analyses
4.5.3. Pattern Analysis and Recommendation
4.5.4. Scalable Machine Learning

4.6. Visualization for Decision-Making
4.6.1. Visualization and Data Analysis
4.6.2. Tools
4.6.3. Data Analysis Visualization
4.6.4. Reports Design

4.7. Business Information Consumption
4.7.1. Control Panel
4.7.2. KPI Design and Mining
4.7.3. Geographic Information

4.8. Security and Governance
4.8.1. Security/Safety
4.8.2. Governance

4.9. Real Applications to IT Projects
4.9.1. From Harvesting to Processing
4.9.2. From Analysis to Visualization

4.10. Project Management
4.10.1. Project
4.10.2. Requirements and Objectives
4.10.3. Start-up and Implementation

Module 5. IT Project Strategic Monitoring and Control

5.1. Data and Information in Decision Making and Project Management
5.1.1. Business Intelligence
5.1.2. Business Intelligence Concept Evolution
5.1.3. Data Life Cycle

5.2. Information Analysis Techniques
5.2.1. Descriptive Analytics
5.2.2. Prescriptive Analytics
5.2.3. Predictive Analytics
5.2.4. Pattern Analysis and Recommendation
5.2.5. Benefits of IT Projects Analysis

5.3. Types of Data
5.3.1. Structured Data
5.3.2. Semi-Structured Data
5.3.3. Unstructured Data

5.4. Storage and Management
5.4.1. Data Lake, Data Warehouse and Data Mart
5.4.2. Stages in Data Management: Extraction, Transformation and Loading
5.4.3. ETL and ELT Paradigm

5.5. Data Management for Project Implementation
5.5.1. Data Use in Project Design
5.5.2. Decision-Making
5.5.3. Benefits

5.6. Business Intelligence Solutions: Power BI
5.6.1. Ecosystem
5.6.2. Potential Strengths and Weaknesses

5.7. Business Intelligence Solutions: Tableau
5.7.1. Ecosystem
5.7.2. Strengths and Weaknesses

5.8. Business Intelligence Solutions: Qlik
5.8.1. Ecosystem
5.8.2. Potential Strengths and Weaknesses

5.9. Business Intelligence Solutions: Prometheus
5.9.1. Ecosystem
5.9.2. Potential Strengths and Weaknesses

5.10. Future of Business Intelligence
5.10.1. Cloud Applications
5.10.2. Self consumption Business Intelligence
5.10.3. Integration with Data Science. Value Creation

Module 6. Digital Analytics for Decision-Making in Technology Projects

6.1. **Digital Analytics**
6.1.1. Digital Analytics
6.1.2. Modus Operandi

6.2. **Google Analytics: Analysis Tools**
6.2.1. Google Analytics
6.2.2. Quantifying and Qualifying: Metrics and Dimensions
6.2.3. Analysis Objectives

6.3. **Metrics**
6.3.1. Basic Metrics
6.3.2. KPI (Key Performance Indicators) or Advanced Metrics
6.3.3. The Objective: Conversion

6.4. **Dimensions**
6.4.1. Campaign/Keyword
6.4.2. Source/Media
6.4.3. Contents

6.5. **Google Analytics**
6.5.1. Tool Set-up and Configuration
6.5.2. Current Versions: UA/GA4
6.5.3. Conversion Objectives: Conversion Funnels

6.6. **Google Analytics Structure: Work Areas**
6.6.1. Accounts
6.6.2. Properties
6.6.3. Views

6.7. **Google Analytics Reports**
6.7.1. In Real Time
6.7.2. Audience
6.7.3. Acquisition
6.7.4. Behaviour
6.7.5. Conversions

6.8. **Google Analytics Advanced Reports**
6.8.1. Personalised Reports
6.8.2. Panels
6.8.3. APIs

6.9. **Filtering**
6.9.1. Filtering and Segmentation: Usability
6.9.2. Predefined Segments and Personalized Segments
6.9.3. Remarketing Lists

6.10. **Digital Analytics Plan**
6.10.1. Measurement
6.10.2. Implementation in the Technological Environment
6.10.3. Conclusions

Module 7. Improving IT Projects and Businesses Using Analytical Techniques

7.1. Company Data Analytics
7.1.1. Company Data Analytics
7.1.2. Value
7.1.3. Project Management According to Value

7.2. Digital Marketing
7.2.1. Digital Marketing
7.2.2. Benefits of Digital Marketing

7.3. Digital Marketing: Preparation
7.3.1. Campaigns
7.3.2. Implementation and Measurement
7.3.3. Digital Strategy Variants
7.3.4. Planning

7.4. Digital Marketing: Implementation
7.4.1. Applications
7.4.2. Integration in Web Environments

7.5. Life Cycle
7.5.1. Customer Journey vs. Campaigns
7.5.2. Measurement

7.6. Data Management
7.6.1. Datawarehouse and Datalab
7.6.2. Applications for the Generation of Campaign Bases
7.6.3. Drive Options

7.7. Campaign Exclusions
7.7.1. Types
7.7.2. GDPR and Robinson
7.7.3. Data Anonymization

7.8. Control Panels
7.8.1. Audience
7.8.2. Storytelling
7.8.3. Applications

7.9. Value Conclusions in Data Analytics
7.9.1. Customer Global Vision
7.9.2. Analysis Strategy and Types
7.9.3. Applications

7.10. Application in Business Scenarios
7.10.1. Wallet Clustering
7.10.2. Predictive Risk Models
7.10.3. Wallet Customers Characterization
7.10.4. Image Processing
7.10.5. Bid Proposal Forms

Module 8. Quality in Software Project Management and Implementation

8.1. Software Quality

8.1.1. Methodologies and Standards
8.1.2. SoftwareQuality Reports: Standish Group CHAOS Report
8.1.3. Software Quality Certifications: ISO and AENOR

8.2. Secure Codification

8.2.1. Coding: Reasons and Types of Codes
8.2.2. Coding Rules

8.3. Data Quality Via Input Validation

8.3.1. Efficient Data Capture
8.3.2. Data-Entry Models: OCR, Keyboard, RFID, etc.
8.3.3. Data Validation Tests

8.4. Total Quality Management: Six Sigma

8.4.1. TQM
8.4.2. Six Sigma: Methodology and Culture
8.4.3. Top-Down Design Systems and Modular Programming
8.4.4. Documentation: FOLKLORE Documentation Method

8.5. Tests, Maintenance and Audits

8.5.1. Test Processes
8.5.2. Using Test Data
8.5.3. Audits and External Audits

8.6. Quality of Network Implemented Products

8.6.1. Client-Server Technology
8.6.2. Cloud Computing Technology

8.7. User Training

8.7.1. User Training Strategies
8.7.2. Training Guides

8.8. Conversion/Migration to New Systems Strategies

8.8.1. Migration Strategies: Parallel and Gradual
8.8.2. Migration/Conversion Plans
8.8.3. Data Owners Management

8.9. Security/Safety

8.9.1. Physical and Logical Security: Document Destruction
8.9.2. e-Commerce
8.9.3. Disaster-Recovery Plans

8.10. Assessment

8.10.1. Quality Assessment Techniques
8.10.2. Evaluation in Web Environments

Module 9. Regulatory compliance for information security in technology projects

9.1. Data Protection Regulation
9.1.1. Regulatory Framework.
9.1.2. Subjects Obliged to Comply with the Regulations
    9.1.2.1. Controllers, Joint Controllers and Processors
9.1.3. Data Protection Officer

9.2. Treatment of Personal Data
9.2.1. Fairness, Loyalty and Transparency
9.2.2. Purpose Limitation
9.2.3. Data Minimisation, Accuracy and Limitation of Retention Period
9.2.4. Integrity and Confidentiality
9.2.5. Proactive Responsibility

9.3. Data Protection by Design and by Default
9.3.1. Data Pseudonymization
9.3.2. Data Minimization
9.3.3. Organizational Measures in Accordance with the Purpose of Processing

9.4. Bases of Lawfulness or Legitimacy and Authorizations for Processing: Data Communication
9.4.1. Consent
9.4.2. Contractual Relationship or Pre-contractual Measures
9.4.3. Fulfillment of a Legal Obligation
9.4.4. Protection of Vital Interests of the Data Subject or Another Person
9.4.5. Public Interest or Exercise of Public Powers
9.4.6. Legitimate Interest: Weighing of interests

9.5. Individuals Rights
9.5.1. Transparency and Information
9.5.2. Access
9.5.3. Rectification and Deletion (Right to be Forgotten), Limitation and Portability
9.5.4. Opposition and Automated Individual Decisions
9.5.5. Limits to Rights

9.6. Risk Analysis and Management of Personal Data Processing
9.6.1. Identification of Risks and Threats to the Rights and Freedoms of Individuals
9.6.2. Risk Assessment
9.6.3. Risk Management Plans

9.7. Techniques to Ensure Data Protection Regulations Compliance
9.7.1. Identification of Proactive Accountability Measures
9.7.2. Processing Activities Register
9.7.3. Security Breach Management
9.7.4. Codes of Conduct and Certifications

9.8. Data Protection Impact Assessment (DPIA)
9.8.1. EIPD Needs Assessment
9.8.2. Evaluation Methodology
9.8.3. Identification of Risks and Threats
9.8.4. Prior Consultation with the Supervisory Authority

9.9. Information Security
9.9.1. Security Regulatory Framework
9.9.2. ICT Security Products Assessment and Certification
9.9.3. STIC Products and Services Catalog (CPSTIC)

9.10. Control Authorities. Violations and Penalties
9.10.1. Violations
9.10.2. Fines
9.10.3. Penalty Procedure
9.10.4. Control Authorities and Cooperation Mechanisms

Module 10. Team Management in IT Projects

10.1. Team Management
10.1.1. Management Skills
10.1.2. Human Capital Management and Managerial Functions
10.1.3. Classification and Types of Management Skills
10.1.4. Group Leadership Management in Companies

10.2. Team Building
10.2.1. Team Management
10.2.2. Performance Evaluation
10.2.3. Delegation and Empowerment
10.2.4. Commitment Management

10.3. Work Teams
10.3.1. Culture: Mission, Vision, Values
10.3.2. Planning and Strategy
10.3.3. Organization and Monitoring
10.3.4. Feedback and Feedforward
10.3.5. Results Assessment

10.4. Stages in Team Training
10.4.1. Dependence Stage
10.4.2. Counter-Dependence Stage
10.4.3. Independence Stage
10.4.4. Interdependence Stage

10.5. IT Project Organization
10.5.1. Company Planning
10.5.2. Time Planning
10.5.3. Resource Planning
10.5.4. Costs Planning

10.6. Talent Management in Companies
10.6.1. Talent
10.6.2. Talent Management
10.6.3. Talent Dimensions
10.6.4. Attracting Talent

10.7. Company Communication
10.7.1. The Company's Communication Process
    10.7.1.1. Internal Relationships and Communication in Companies
    10.7.1.2. Relation between Company Organization and Communication: Centralization or Decentralization
    10.7.1.3. Internal and External Communication Tools

10.7.2. Interpersonal Relations in the Company
    10.7.2.1. Interpersonal Communication and Conflicts
    10.7.2.2. Communication Filters and Barriers
    10.7.2.3. Criticism and Active Listening
    10.7.2.4. Active Listening Techniques

10.8. Negotiation Techniques in Companies
10.8.1. Negotiation at the Managerial Level in Technology Companies
    10.8.1.1. Negotiation
    10.8.1.2. Styles of Negotiation
    10.8.1.3. Negotiation Phases
10.8.2. Negotiation Techniques
    10.8.2.1. Negotiation Strategies and Tactics
    10.8.2.2. Negotiation Types
10.8.3. The Figure of the Negotiating Subject
    10.8.3.1. Negotiator Characteristics
    10.8.3.2. Types of Negotiators
    10.8.3.3. Psychology in Negotiation

10.9. Coaching and Business Management
10.9.1. Business Coaching
10.9.2. Coaching in Practice
10.9.3. Coaching in Organizations

10.10. Mentoring and Business Management
10.10.1. Mentoring
10.10.2. The 4 Processes of a Mentoring Programme
    10.10.2.1. Processes
    10.10.2.2. Mentors in Companies
    10.10.2.3. Protégés in Technological Companies
10.10.3. Benefits of Mentoring in Companies
    10.10.3.1. Benefits to the Organization: Mentor and Mentee
10.10.4. Differences between Mentoring and Coaching

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"*

Optimal decision

Patient
Values

Research
Evidence

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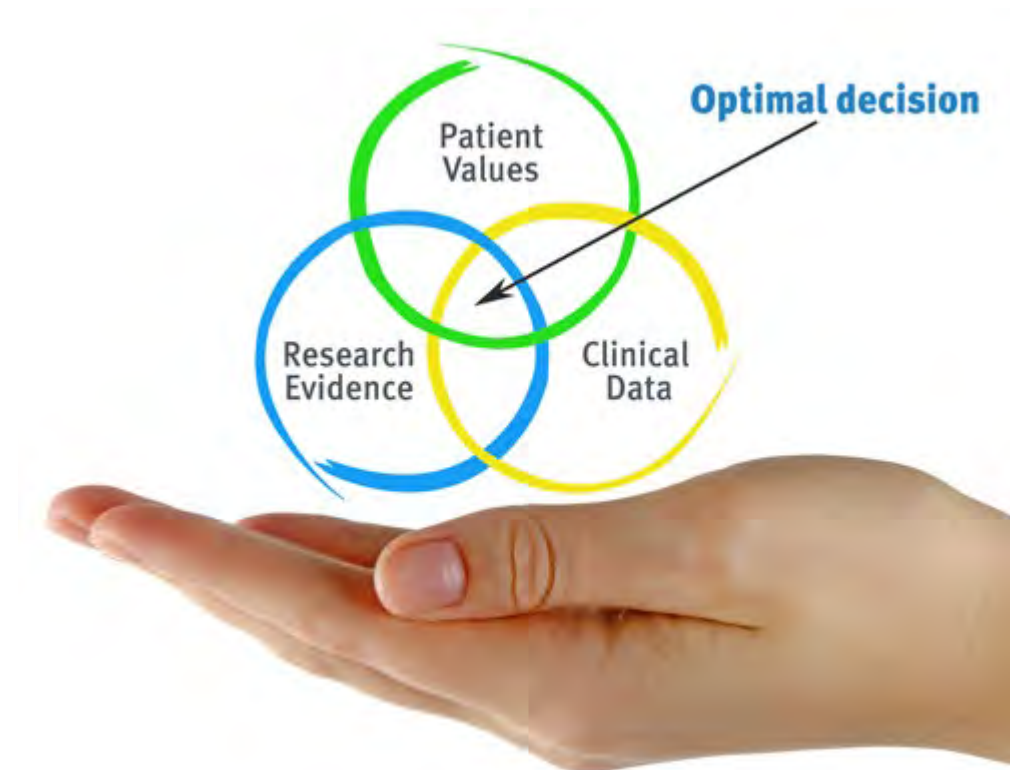
*This program prepares you to face business
challenges in uncertain environments and
achieve business success.*

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.

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

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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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.

30%

10%

8%

3%

30%

15%

4%

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.

Our Students' Profiles

This Executive Master's Degree in Advanced Technology Project Management is aimed at professionals in the technology field who want to focus their career on the direction and management of work teams, including the advanced knowledge that is also required in the field. For this purpose, students are provided with the best methodologies, work tools and theoretical knowledge of the subject, in order to prepare them in the best possible way to face responsibilities and higher positions.

The best jobs are reserved for those who are best prepared. Take the leap that your professional career needs by taking this Executive Master's Degree in Advanced Technology Project Management"

Average Age

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

Years of Experience

More than 15 years **19%**

Up to 5 years **13%**

10 to 15 years **37%**

5 to 10 years **31%**

Training

Engineering **51%**

Business Economics **22%**

Graphic Design **10%**

Social Sciences **2%**

Other **15%**

Academic Profile

Corporate Management **27%**

Software and Hardware Engineers **45%**

Entrepreneurs **16%**

Commercial IT Technicians **5%**

Others **7%**
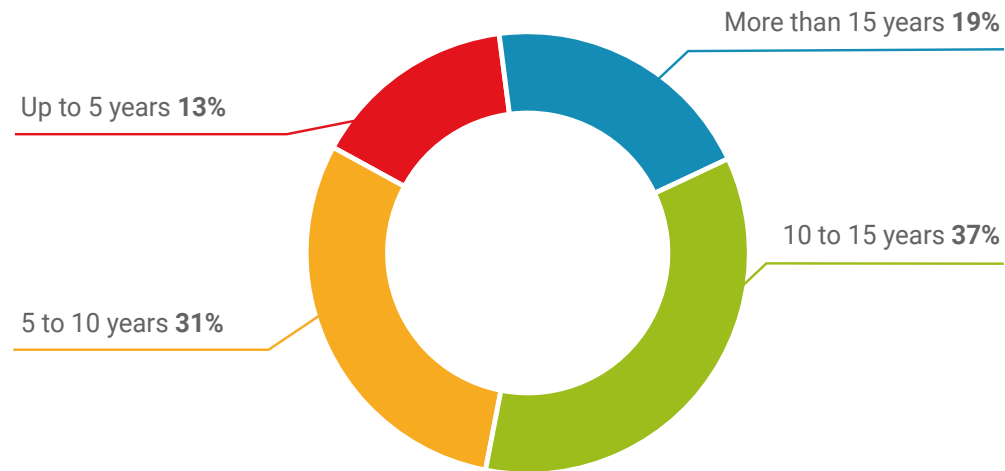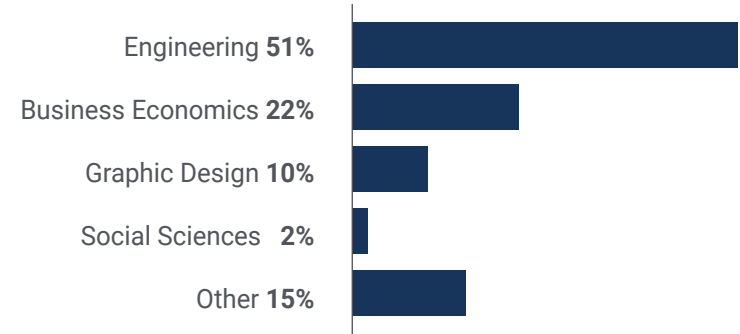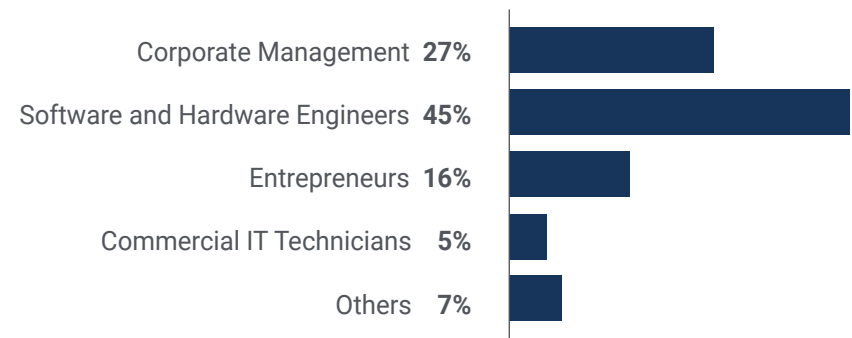
Geographical Distribution

USA **10%**	
Spain **39%**	
Mexico **20%**	
Colombia **6%**	
Argentina **13%**	
Chile **4%**	
Peru **2%**	
Others **6%**	
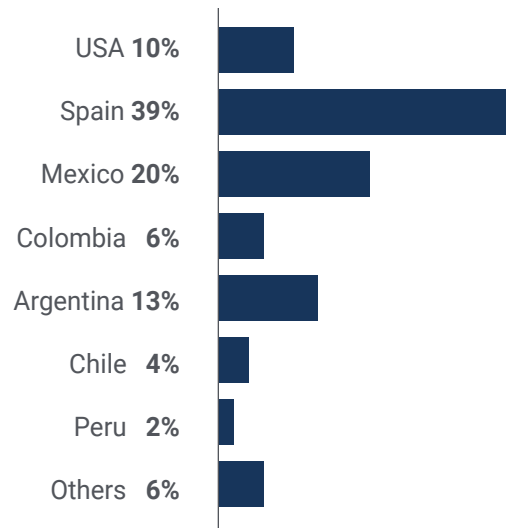
Miguel Valero Bautista

Technology Project Manager

"I'd been stuck in my career for a long time, but thanks to TECH's Advanced Technology Project Management program, I was able to start applying for more and more important job offers and take on more responsibilities in my environment. Without a doubt, this program launched my career to another level"

Course Management

TECH has brought together for this Executive Master's Degree the best professors in each field of action in technology projects, to ensure students receive the best possible education in the field. The highly qualified professionals who make up the teaching staff will contribute their professional experience and know how to help students continue to achieve the professional success they have made so far by acquiring the qualifications required to access management positions.

"

You will be among the elite of top technology management thanks to the support offered by the experts TECH has brought together for this Executive Master's Degree"

Director

Dr. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus Global Solutions
- CTO en Corporate Technologies in Corporate Technologies
- CTO in AI Shephers GmbH
- Doctorate in Psychology from the University of Castilla La Mancha
- PhD in Economics, Business and Finance from the Camilo José Cela University. Outstanding Award in her PhD
- PhD in Psychology, University of Castilla La Mancha
- Master's Degree in Advanced Information Technologies from the University of Castilla la Mancha
- Master MBA+E (Master's Degree in Business Administration and Organisational Engineering) from the University of Castilla la Mancha
- Associate lecturer, teaching undergraduate and master's degrees in Computer Engineering at the University of Castilla la Mancha
- Professor of the Master in Big Data and Data Science at the International University of Valencia
- Lecturer of the Master's Degree in Industry 4.0 and the Master's Degree in Industrial Design and Product Development
- Member of the SMILE Research Group of the University of Castilla la Mancha

Professors

Mr. Gómez Esteban, Enrique

- Oracle database administrator at NATO, Alten, ViewNext, Everis and Psa Group (Peugeot)
- Project Manager at Telefónica
- Head of Safety at FNMT
- Technical Advisor at IBM Sterling and IBM Aspera
- Software Engineer at NCR Corporation
- Computer Expertise in Commercial/Civil, Criminal and Extrajudicial areas in the Community of Madrid
- Computer Engineer, Polytechnical University of Madrid
- Postgraduate Master's Degree in Computer Security and Communications from the Polytechnic University of Madrid

Mr. Fondón Alcalde, Rubén

- Customer Value Management Business Analyst at Vodafone Spain
- Head of Service Integration at Entelgy for Telefónica Global Solutions
- Online account manager for clone servers at EDM Electronics
- Business Analyst for Southern Europe at Vodafone Global Enterprise
- Telecommunications Engineer from the European University of Madrid
- Master's Degree in Big Data and Analytics, International University of Valencia

Mr. Tato Sánchez, Rafael

- Project Management and CTO at Indra Sistemas
- Head of the Control Center and Traffic Management in the Directorate General for Traffic in Madrid
- Systems Engineer in ENA Tráfico
- Degree in Industrial Electronics and Automation Engineering from the European University of Madrid
- Industrial Technical Engineer in Electricity from the Polytechnic University Madrid
- Master's Degree in Industry 4.0 from the International University of La Rioja

Ms. Martínez Cerrato, Yésica

- Project Manager in the area of Key Account Integration at the Spanish Postal Service
- Computer Technician - Responsible for computer classrooms OTEC at the University of Alcalá
- Electronic Security Product Technician at Securitas Security Spain
- Digital Transformation Manager and Business Intelligence Analyst at Ricopia Technologies
- Computer classes teacher in ASALUMA Association
- Degree in Electronic Communications Engineering at the University of Alcalá, Spain

Mr. García Niño, Pedro
- Specialist in Web Positioning and SEO/Google Ads
- SEO On-Page / Off-Page Specialist
- Google Ads Specialist (SEM / PPC), Official Certification
- Specialist in Google Analytics/Digital Marketing Analytics and Performance Measurement
- Specialist in Digital Marketing and RRSS
- IT Services Sales Manager
- Computer Equipment Technician Hardware/Software Specialist

Ms. García La O, Marta
- Management, administration and account management at Think Planning and Development
- Organisation, supervision and mentoring of senior management training courses in Think Planning and Development
- Administrative Accountant, Tabacos Santiago y Zaraiche-Stan Roller
- Marketing Specialist at Versas Consultores
- Diploma in Business Studies from the University of Murcia
- Master's Degree in Sales and Marketing Management from Fundesem Business School

Ms. Palomino Dávila, Cristina

- Consultant and Senior GRC Auditor at Oesía Networks
- Audit Sub-Directorate - General Secretariat in Compañía Logística de Hidrocarburos CLH
- Senior consultant and auditor in the field of Personal Data Protection and information society services at Helas Consultores
- Graduate in Law from the University of Castilla La Mancha
- Master's Degree in Legal Consultancy for Businesses from the Instituto de Empresa
- Advanced Course in Digital Security and Crisis Management, University of Alcalá and the Spanish Security and Crisis Alliance (AESYC)

10
Impact on Your Career

By taking the Executive Master's Degree in Advanced Technology Project Management, students are ensured to make a positive impact on their professional career. That will be thanks to the skills and knowledge acquired during the program, which are the most demanded by technology companies seeking to recruit effective managers in their staff. Students will stand out for having a complete and updated curriculum of knowledge of the new technological and market realities.

" *TECH is 100% committed to elevating its students' professional careers to the best management positions"*

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

The TECH Executive Master's Degree in Advanced Technology Project Management is an intensive program that prepares students to face challenges and business decisions in technology management. The main objective is to promote your personal and professional growth, helping you achieve success.

Do not miss the opportunity to pursue your professional goal and watch yourself reach the top with TECH.

You will improve your salary expectations by managing relevant technology projects thanks to this Executive Master's Degree in Advanced Technology Project Management.

When the change occurs

During the program	During the first year	After 2 years
7%	**65%**	**28%**

Type of change

Internal Promotion **49%**

Change of Company **42%**

Entrepreneurship **9%**
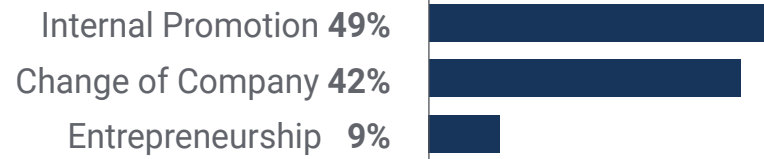
Salary increase

This program represents a salary increase of more than **30.68%** for our students.

Salary before	A salary increase of	Salary after
$23,890	**30.68%**	**$30,520**

11

Benefits for Your Company

The Executive Master's Degree in Advanced Technology Project Management contributes to elevate the organization's talent to its maximum potential by training of high level leaders, capable of assuming the leadership of highly specialized work teams. Participating in this Executive Master's Degree is a unique opportunity to access a powerful network of contacts of future professional partners, customers or suppliers.

tech

In the midst of thousands of companies undertaking digital transformation, this Executive Master's Degree in Advanced Technology Projects will make you much more visible compared to other candidates who do not have the same projection or specialization to lead projects"

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

03

Building agents of change

You 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 can 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 Executive Master's Degree will equip students with the skills to take on new challenges and drive the organization forward.

12

Certificate

The Executive Master's Degree in Advanced Technology Project Management guarantees students, in addition to the most rigorous and up to date education, access to an Executive Master's Degree issued by TECH Technological University.

Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"
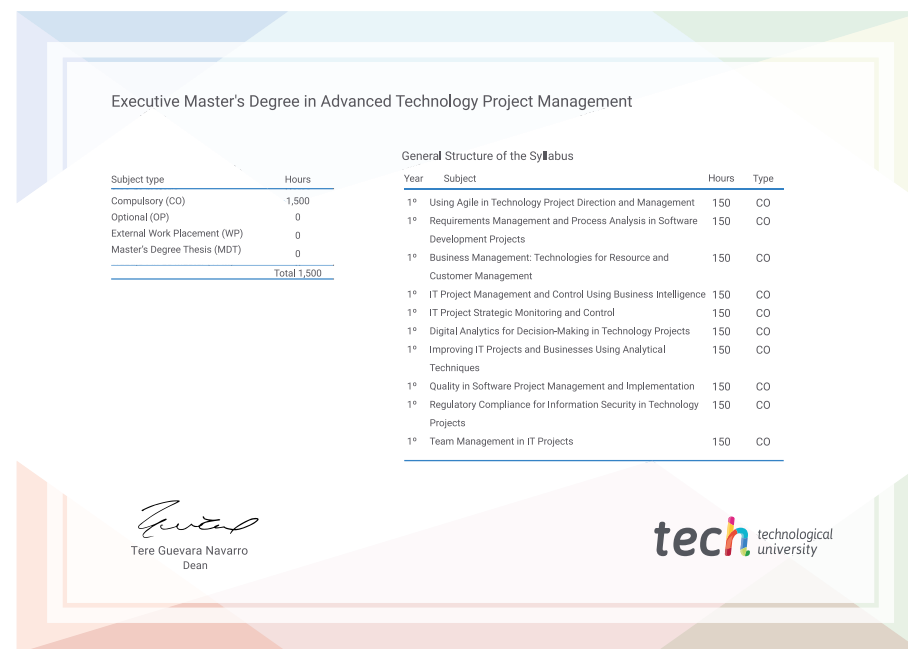
This **Executive Master's Degree in Advanced Technology Project Management** contains the most complete and up to date scientific program on the market.

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

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

Title: **Executive Master's Degree in Advanced Technology Project Management**
Official Nº of hours: **1,500 h.**

tech technological university

Awards the following

CERTIFICATE

to

Mr./Ms. _____, with identification number _____.
For having successfully passed and accredited the following program

EXECUTIVE MASTER'S DEGREE

in

Advanced 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

Unique TECH Code: AFWORD23S   techtitute.com/certificates

Executive Master's Degree in Advanced Technology Project Management

General Structure of the Syllabus

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

Year	Subject	Hours	Type
1º	Using Agile in Technology Project Direction and Management	150	CO
1º	Requirements Management and Process Analysis in Software Development Projects	150	CO
1º	Business Management: Technologies for Resource and Customer Management	150	CO
1º	IT Project Management and Control Using Business Intelligence	150	CO
1º	IT Project Strategic Monitoring and Control	150	CO
1º	Digital Analytics for Decision-Making in Technology Projects	150	CO
1º	Improving IT Projects and Businesses Using Analytical Techniques	150	CO
1º	Quality in Software Project Management and Implementation	150	CO
1º	Regulatory Compliance for Information Security in Technology Projects	150	CO
1º	Team Management in IT Projects	150	CO

Tere Guevara Navarro
Dean

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*Apostille Convention. In the event that the student wishes to have their paper certificate 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 Degree
Advanced 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 Degree
Advanced Technology
Project Management

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