Advanced Master's Degree Information Systems Management (Chief Information Officer)

A M D I S M



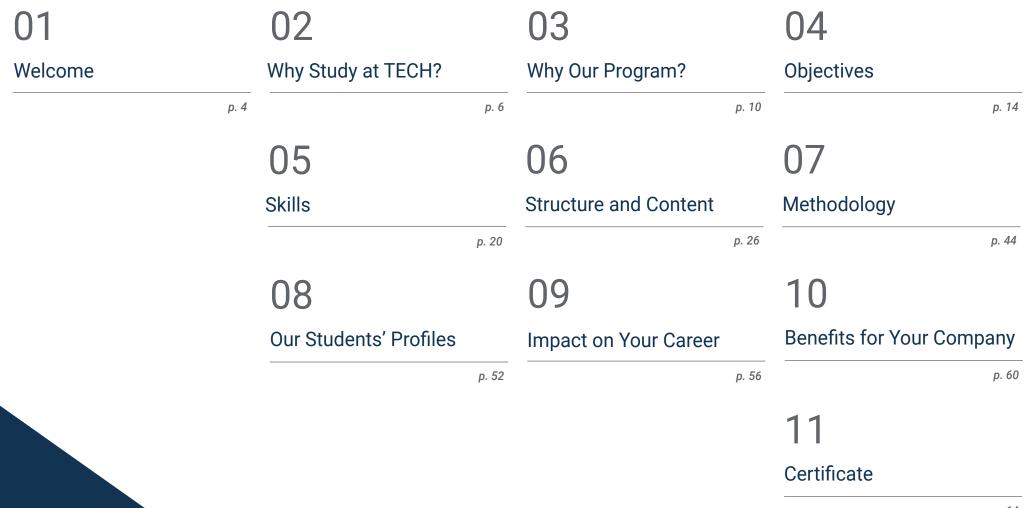


Advanced Master's Degree Information Systems Management (Chief Information Officer)

- » Modality: online
- » Duration: 2 years
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/pk/school-of-business/advanced-master-degree/advanced-master-degree-information-systems-management-chief-information-officer

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01 Welcome

New technologies have been introduced in the field of business to improve production processes, decision-making, communication, and advertising... In short, to improve work and achieve a competitive advantage over other companies. However, in addition to having the appropriate infrastructure and software, it is necessary to have qualified professionals who are capable of managing and leading projects based on the information systems that best suit the company's objectives. At this point, the figure of the director of this area plays a fundamental role, since he/she will be the person in charge of designing and planning the actions based on information technologies that must be implemented. Business professionals, on the other hand, are increasingly interested in specializing in this field, as it is an area that is acquiring great importance in companies, making their advanced training in this field indispensable.

> Advanced Master's Degree in Information Systems Management (Chief Information Officer). TECH Technological University

Learn firsthand the importance of new technologies applied to the company and become a successful CIO"

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19

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.

Why Study at TECH? | 07 tech

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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"

tech 08 | Why Study at TECH?

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...



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.



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:



Analysis

TECH explores the student's critical side, their ability to question things, their problem-solving skills, as well as their interpersonal skills.



Learn with the best

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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"



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.

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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"

tech 12 | Why Our Program?

This program will provide students with a multitude of professional and personal advantages, particularly the following:



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.



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.



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.



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.

Why Our Program? | 13 tech



Access to a powerful network of contacts

TECH connects its students to maximize opportunities. Students with the same concerns and desire to grow. Therefore, partnerships, customers or suppliers can be shared.

> You will find a network of contacts that will be instrumental for professional development.



Thoroughly develop business projects

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

20% of our students develop their own business idea.



Improve soft skills and management skills

TECH helps students apply and develop the knowledge they have acquired, while improving their interpersonal skills in order to become leaders who make a difference.

Improve your communication and leadership skills and enhance your career.



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 Advanced Master's Degree in Information Systems Management (Chief Information Officer) has been designed with the need for business professionals to specialize in this field in mind. Thus, students will find a multitude of theoretical and practical resources that will be essential to develop the necessary skills with which to act more safely and effectively in their daily practice. Undoubtedly, a program that will mark a before and after in your career and that will be the ideal complement to your basic training.

A unique program with which you will be able to develop your skills to successfully manage information systems management"

tech 16 | Objectives

Your goals are our goals.

We work together to help you achieve them.

The Advanced Master's Degree in Information Systems Management (Chief Information Officer) will enable students to:



Develop strategies to carry out decision-making in a complex and unstable environment



Design innovative strategies and policies to improve management and business efficiency



Create corporate strategies that set the script for the company to follow in order to be more competitive and achieve its own objectives





To develop the skills required to manage business activities strategically



Understand the best way to manage the company's human resources, getting greater performance from employees that, in turn, increases the company's profits

Objectives | 17 **tech**



Acquire the communication skills that a business leader needs in order to ensure that their message is heard and understood by the members of their community



Be able to manage the company's economic and financial plan





Understand the logistical operations that are necessary in the business environment, so as to manage them appropriately

07

Understand the economic environment in which the company operates and develop appropriate strategies to anticipate changes



Be able to apply information and communication technologies to the different areas within a company

tech 18 | Objectives

11

Learn the concepts related to energy, its types, measurements, conservation and units



Learn about the interface and implementation of operating systems, understanding the concepts of files, file systems, directory structure and their implementation, as well as the methods of allocation and management of free space



Know the history of computers, as well as the main types of existing organizations and architectures







Understand the operation of the memory hierarchy, the different types of storage and input/ output issues



Deepen the knowledge of operating systems, their functions, process management, memory, directories and files, as well as the keys to their security and design objectives

Objectives | 19 tech



Know the main free tools available in different areas such as operating systems, business management, content management systems and multimedia content creation, among others



Knowledge of the different mobile technologies and services currently available in the market







Understand the fundamentals of symmetric cryptography and asymmetric cryptography, as well as their main algorithms



Know the different network security mechanisms, as well as the different Internet security protocols



Acquire the essential concepts related to information systems in the enterprise, as well as identify the opportunities and needs of information systems in the enterprise

05 **Skills**

Business professionals are people with multidisciplinary training, especially in the case of managers, as they usually have advanced knowledge in different areas such as finance, communication and logistics. However, with the advance of new technologies, it is increasingly important that they specialize in information systems, so that they are able to manage them properly. This Advanced Master's Degree is designed to help you develop the necessary skills in this field so that you can work as efficiently and safely as possible.

Skills | 21 tech

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This program will allow you to develop the necessary skills to correctly manage your company's information systems"

tech 22 | Skills



Correctly manage teams to improve productivity and, therefore, the company's profits



Delve into the new business models associated with information systems



Carry out the economic and financial control of the company





Control the company's logistics processes, as well as purchasing and procurement



Apply the most appropriate strategies to support e-commerce of the company's products



Develop and lead marketing plans



Lead the different projects in a company





Master the concepts of fields, waves and electromagnetism, electric circuit theory, electronic circuits, physical principle of semiconductors and logic families, among others, to solve possible problems related to these areas



Focus on innovation in all processes and areas of the company



Know, understand and evaluate the structure and architecture of computers

tech 24 | Skills



Know the structure, organization, operation and interconnection of computer systems



Know and understand the main characteristics of free software



Perform programming of computers, operating systems, databases and software





Understanding operating systems and designing applications for their services



Know the characteristics of computer networks and perform applications associated with them



Use tools to store, process and access information systems



Knowledge of possible network attacks and security systems to prevent them



Know the information systems in the company

06 Structure and Content

This Advanced Master's Degree from TECH is a completely new program, as it includes, in the same syllabus, the most relevant aspects of business management and computer systems. In this way, students will be able to acquire a higher qualification that will be fundamental for their professional development. And They will achieve this thanks to the quality of the syllabus and the multitude of theoretical and practical resources that will make their learning much easier.

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Thanks to this complete syllabus you will be able to carry out a contextual study of the latest concepts in Information Systems Management"

tech 28 | Structure and Content

Syllabus

The Advanced Master's Degree in Information Systems Management (Chief Information Officer) at TECH Technological University is an intensive program that prepares students to face business challenges and decisions both nationally and internationally. Its content is designed to promote the development of managerial skills that enable more rigorous decisionmaking in uncertain environments.

Throughout 3,000 hours of study, students will analyze a multitude of practical cases through individual work, achieving high quality learning that can be applied to their daily practice. It is, therefore, an authentic immersion in real business situations.

This program deals in depth with the main areas of the company and is designed for managers to understand the management of information systems from a strategic, international and innovative perspective. A plan designed for students, focused on their professional improvement and that prepares them to achieve excellence in the field of Information Systems 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 2 years and is divided into 18 modules:

Module 1	Leadership, Ethics, and CSR
Module 2	Strategic Management and Executive Management
Module 3	People and Talent Management
Module 4	Economic and Financial Management
Module 5	Operations and Logistics Management
Module 6	Information Systems Management
Module 7	Commercial Management, Marketing, and Corporate Communication
Module 8	Innovation and Project Management
Module 9	Physical Fundamentals of Computing
Module 10	Computer Technology
Module 11	The Structure of Computers
Module 12	Operating Systems
Module 13	Advanced Operating System
Module 14	Free Software and Open Knowledge
Module 15	Computer Networks
Module 16	Emerging Technologies
Module 17	Information Systems Security
Module 18	Systems Integration



Structure and Content | 29 tech

Where, When and How is it Taught?

TECH Offers the Student the possibility of developing this program in a totally online way. Over the 2 years of training, you will be able to access all the contents of this program at any time, which will allow you to self-manage your study time.

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

tech 30 | Structure and Content

Module 1. Leadership, Ethics, and CSR.

- 1.1. Globalization and Governance
- 1.1.1. Globalization and Trends: Internationalization of Markets
- 1.1.2. Economic Environment and Corporate Governance
- 1.1.3. Accountability

- Leadership 1.2.
- 1.2.1. Intercultural Environment
- 1.2.2. Leadership and Business Management 1.2.3. Management Roles and Responsibilities

1.3. Business ethics

- 1.3.1. Ethics and Integrity
- 1.3.2. Ethical Behavior in Companies
- 1.3.3. Deontology, Codes of Ethics and Codes of Conduct
- 1.3.4. Fraud and Corruption Prevention

1.4. Sustainability

- 1.4.1. Business and Sustainable Development
- 1.4.2. Social, Environmental, and Economic Impact
- 1.4.3. Agenda 2030 and SDGs

1.5. Corporate Social Responsibility

- 1.5.1. Corporate Social Responsibility
- 1.5.2. Roles and Responsibilities
- 1.5.3. Implementing Corporate Social Responsibility

Module 2. Strategic Management and Executive Management

- 2.1. Organizational Analysis and Design
- 2.1.1. Organizational Culture
- 2.1.2. Organisational analysis
- 2.1.3. Designing the Organizational Structure

2.2. Corporate Strategy

- 2.2.1. Corporate Level Strategy
- 2.2.2. Types of Corporate Level Strategies
- 2.2.3. Determining the Corporate Strategy
- 2.2.4. Corporate Strategy and Reputational Image

2.3. Strategic Planning and Formulation

- 2.3.1. Strategic Thinking
- 2.3.2. Strategic Planning and Formulation
- 2.3.3. Sustainability and Corporate Strategy

2.4. Strategic Models and Patterns

- 2.4.1. Wealth, Value, and Return on Investments
- 2.4.2. Corporate Strategy: Methodologies
- 2.4.3. Growing and Consolidating the Corporate Strategy

2.5. Strategic Management

- 2.5.1. Strategic Mission, Vision, and Values
- 2.5.2. Balanced Scorecard
- 2.5.3. Analyzing, Monitoring, and Evaluating the Corporate Strategy
- 2.5.4. Strategic Management and Reporting

2.6. Implementing and Executing

Strategy

- 2.6.1. Strategic implementation: objectives, actions and impacts
- 2.6.2. Strategic Alignment and Supervision
- 2.6.3. Continuous Improvement Approach

2.7. Executive Management

- 2.7.1. Integrating Functional Strategies into the
- **Global Business Strategies** 2.7.2. Management Policy and Processes
- 2.7.3. Knowledge Management

2.8.2. Case Method

- 2.8. Analyzing and Solving Cases/
- **Problems**
 - 2.8.1. Problem Solving Methodology

 - 2.8.3. Positioning and Decision-Making

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Module 3. People and Talent Management

3.1. Organizational Behavior

- 3.1.1. Organizational Theory
- 3.1.2. Key Factors for Change in Organizations 3.1.3. Corporate Strategies, Types, and Knowledge Management

3.2. Strategic People Management

- 3.2.1. Job Design, Recruitment, and Selection
- 3.2.2. Human Resources Strategic Plan: Design and Implementation
- 3.2.3. Job Analysis: Design and Selection of People
- 3.2.4. Training and Professional Development

3.5. Negotiation and Conflict Management

- 3.5.1. Negotiation Objectives Differentiating Elements
- 3.5.2. Effective Negotiation Techniques
- 3.5.3. Conflicts: Factors and Types
- 3.5.4. Efficient Conflict Management: Negotiation and Communication

3.6. Executive Communication

- 3.6.1. Performance Analysis
- 3.6.2. Leading Change. Resistance to Change
- 3.6.3. Managing Change Processes
- 3.6.4. Managing Multicultural Teams

3.3. Management and Leadership Development

- 3.3.1. Management Skills: 21st Century Competencies and Abilities
- 3.3.2. Non-Managerial Skills
- 3.3.3. Map of Skills and Abilities
- 3.3.4. Leadership and People Management

3.7. Team Management and People Performance

- 3.7.1. Multicultural and Multidisciplinary Environment
- 3.7.2. Team and People Management
- 3.7.3. Coaching and People Performance
- 3.7.4. Management Meetings: Planning and Time Management

3.4. Change Management

- 3.4.1. Performance Analysis
- 3.4.2. Strategic Approach
- 3.4.3. Change Management: Key Factors, Process Design and Management
- 3.4.4. Continuous Improvement Approach

3.8. Knowledge and Talent Management

- 3.8.1. Identifying Knowledge and Talent in Organizations
- 3.8.2. Corporate Knowledge and Talent Management Models
- 3.8.3. Creativity and Innovation

Module 4. Economic and Financial Management

4.1. Economic Environment

- 4.1.1. Organizational Theory
- 4.1.2. Key Factors for Change in Organizations
- 4.1.3. Corporate Strategies, Types, and Knowledge Management

4.5. Corporate Control Systems

- Types of Control 4.5.1.
- 4.5.2. Legal/Regulatory Compliance
- 4.5.3. Internal Auditing
- 4.5.4. External Auditing

4.9. Macroeconomic Context

- 4.9.1. Macroeconomic Analysis
- 4.9.2. Economic Indicators
- 4.9.3. Economic Cycle

4.2. Executive Accounting

- 4.2.1. International Accounting Framework
- Introduction to the Accounting Cycle 4.2.2.
- Company Financial Statements 4.2.3.
- Analysis of Financial Statements: Decision-4.2.4. Making

4.6. Financial Management

- Introduction to Financial Management 4.6.1.
- Chief Financial Officer (CFO): Managerial 4.6.3. Skills

4.10. Strategic Financing

4.10.1. Banking Business: Current Environment 4.10.2. Risk Analysis and Management

Budget and Management Control 4.3.

- 4.3.1. Budgetary Planning
- 4.3.2. Management Control: Design and Objectives
- 4.3.3. Supervision and Reporting

4.7. Financial Planning

- 4.7.1. Business Models and Financing Needs
- 4.7.2. Financial Analysis Tools
- 4.7.3. Short-Term Financial Planning
- 4.7.4. Long-Term Financial Planning

4.11. Money and Capital Markets

4.11.1. Fixed Income Market 4.11.2. Equity Market 4.11.3. Valuation of Companies

Corporate Tax Responsibility 4.4.

- 4.4.1. Corporate Tax Responsibility
- 4.4.2. Tax Procedure: A Country-case Approach

Corporate Financial Strategy 4.8.

- 4.8.1. Corporate Financial Investments
- 4.8.2. Strategic Growth: Types

4.12. Analyzing and Solving Cases/ Problems

4.12.1. Problem Solving Methodology 4.12.2. Case Method

- 4.6.2. Financial Management and Corporate
 - Strategy

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Module 5. Operations and Logistics Mana	gemen	t				
5.1. Operations Management5.1.1. Define the Operations Strategy5.1.2. Supply Chain Planning and Control5.1.3. Indicator Systems	5.2. 1. 5.2.1. 5.2.2. 5.2.3.	Purchasing Management Stocks Management Warehouse Management Purchasing and Procurement Management	5.3. 5.3.1. 5.3.2. 5.3.3.	Supply Chain Management (1) Costs and Efficiency of the Operations Chain Change in Demand Patterns Change in Operations Strategy		Implementation
 5.5. Logistical Processes 5.5.1. Organization and Management by Processes 5.5.2. Procurement, Production, Distribution 5.5.3. Quality, Quality Costs, and Tools 5.5.4. After-Sales Service 	5.6. 5.6.1 5.6.2 5.6.3		5.7. 5.7.1. 5.7.2. 5.7.3.	International Logistics Customs, Export and Import processes Methods and Means of International Payment International Logistics Platforms	5.8. 5.8.1. 5.8.2. 5.8.3.	
Module 6. Information Systems Managem	vont					
 6.1.1 Information Systems Management 6.1.1. Business Information Systems 6.1.2. Strategic Decisions 6.1.3. The Role of the CIO 	6.2.1. 6.2.2. 6.2.3.	Information Technology and Business Strategy Company and Industry Sector Analysis Online Business Models The Value of IT in a Company	6.3. 6.3.1. 6.3.2. 6.3.3.	IS Strategic Planning The Process of Strategic Planning Formulating the IS Strategy Strategy Implementation Plan	6.4. 1. 6.4.2. 6.4.3.	Information Systems and Business Intelligence CRM and Business Intelligence Business Intelligence Project Management Business Intelligence Architecture
 6.5. New ICT-Based Business Models 5.5.1. Technology-Based Business Models 5.5.2. Innovation Abilities 5.5.3. Redesigning the Value Chain Processes 		E-Commerce E-Commerce Strategic Plan ogistics Management and Customer Service in E-Commerce E-Commerce as an Opportunity for	6.7. 6.7.1. 6.7.2. 6.7.3.	E-Business Strategies Social Media Strategies Optimizing Service Channels and Customer Support Digital Regulation	6.8. 6.8.1. 6.8.2. 6.8.3.	

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Module 7. Commercial Management, Marketing, and Corporate Communications

7.1. Commercial Management

- 7.1.1. Sales Management
- 7.1.2. Commercial Strategy
- 7.1.3. Sales and Negotiation Techniques
- 7.1.4. Management of Sales Teams

7.5. Sales and Communication Strategy

- 7.5.1. Positioning and Promotion
- 7.5.2. Public Relations
- 7.5.3. Sales and Communication Strategy

7.2. Marketing

- 7.2.1. Marketing and the Impact on the Company
- 7.2.2. Basic Marketing Variables
- 7.2.3. Marketing Plan

7.3. Strategic Marketing Management

- 7.3.1. Sources of Innovation
- 7.3.2. Current Trends in Marketing
- 7.3.3. Marketing Tools
- 7.3.4. Marketing Strategy and Communication with Customers

7.4. Digital Marketing Strategy

- 7.4.1. Approach to Digital Marketing
- 7.4.2. Digital Marketing Tools
- 7.4.3. Inbound Marketing and the Evolution of Digital Marketing

7.6. Corporate Communication

- 7.6.1. Internal and External Communication
- 7.6.2. Communication Departments
- 7.6.3. Communication Managers: Managerial Skills and Responsibilities

7.7. Corporate Communication Strategy

- 7.7.1. Corporate Communication Strategy
- 7.7.2. Communication Plan
- 7.7.3. Press Release/Clipping/Publicity Writing

Module 8. Innovation and Project Management

8.1. Innovation

- 8.1.1. Macro Concept of Innovation
- 8.1.2. Types of Innovation
- 8.1.3. Continuous and Discontinuous Innovation
- 8.1.4. Training and Innovation

8.2. Innovation Strategy

- 8.2.1. Innovation and Corporate Strategy
- 8.2.2. Global Innovation Project: Design and
- Management
- 8.2.3. Innovation Workshops

8.3. Business Model Design and Validation

- 8.3.1. The Lean Start-up Methodology
- 8.3.2. Innovative Business Initiative: Stages
- 8.3.3. Financing Arrangements
- 8.3.4. Model Tools: Empathy Map, Canvas Model, and Metrics
- 8.3.5. Growth and Loyalty

8.4. Project Management

- 8.4.1. Innovation Opportunities
- 8.4.2. Feasibility Study and Proposal Specification
- 8.4.3. Project Definition and Design
- 8.4.4. Project Execution
- 8.4.5. Project Closure

Mod	Module 9. Physical Fundamentals of Computing						
9.1. 9.1.1. 9.1.2. 9.1.3. 9.1.4.		9.2. 9.2.1. 9.2.2. 9.2.3. 9.2.4.	The Electric Charge The Millikan Experiment Conservation of Linear Momentum	9.3.2. 9.3.3. 9.3.4. 9.3.5. 9.3.6. 9.3.7.	Energy What is Energy? Measuring Energy Energy Types Dependence on the Observer's Energy Potential Energy Derivation of Potential Energy Energy Conservation Energy Units	9.4. 9.4.2. 9.4.3. 9.4.4.	Electric Field Static Electricity Electric Field Capacity Potential
9.5.2.	Electrical Circuits Circulation of Electric Charge Batteries Alternating Current	9.6.2.	Magnetic Field	9.7. 9.7.1. 9.7.2. 9.7.3.	Electromagnetic Spectrum Maxwell's Equations Optics and Electromagnetic Waves The Michelson Morley Experiment	9.8.2.	The Atom and Subatomic Particles The Atom The Atomic Nucleus Radioactivity
9.9.	Quantum Physics		Relativity Gravity, Space and Time				

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Module 10. Computer Technology						
 10.1. General Information and a Brief History of Computers 10.1.1. Organization and Architecture 10.1.2. Brief History of Computers 	10.2. Computer Arithmetic 10.2.1. The Arithmetic-Logic Unit 10.2.2. Numbering Systems 10.2.3. Integer Representation 10.2.4. Arithmetic with Integers 10.2.5. Floating Point Representation 10.2.6. Floating Point Arithmetic	 10.3. Classic Concepts of Logic Design 10.3.1. Boolean Algebra 10.3.2. Logic Gates 10.3.3. Logical Simplification 10.3.4. Combinational Circuits 10.3.5. Sequential Circuits 10.3.6. Concept of Sequential Machine 10.3.7. Memory Element 10.3.8. Types of Memory Elements 10.3.9. Synthesis of Sequential Circuits with PLA 	 10.4. Basic Computer Organization and Operation 10.4.1. Introduction 10.4.2. Components of a Computer 10.4.3. Operation of a Computer 10.4.4. Interconnection Structures 10.4.5. Interconnection with Buses 10.4.6. PCI Bus 			
 10.5. Internal Memory 10.5.1. Introduction to Memory Systems in Computers 10.5.2. Semiconductor Main Memory 10.5.3. Correction of Errors 10.5.4. Advanced DRAM Memory Organization 	10.6. Input/Output 10.6.1. External Devices 10.6.2. Input/Output Modules 10.6.3. Scheduled Input/Output 10.6.4. Input/Output via Interrupts 10.6.5. Direct Memory Access 10.6.6. Input/Output Channels and Processors	 10.7. Machine Instructions: Features and Functions 10.7.1. Characteristics of Machine Instructions 10.7.2. Types of Operands 10.7.3. Types of Operations 10.7.4. Assembly Language 10.7.5. Address 	10.8. Processor Structure and Operation 10.8.1. Processor Organization 10.8.2. Record Organization 10.8.3. Training Cycle 10.8.4. Instruction Segmentation			

10.7.6. Formats of Instructions

10.9. Cache and External Memory

10.10. Introduction to the Operation of

10.9.1. Basic Principles of Cache Memories10.9.2. Cache Design Elements10.9.3. Magnetic Disks10.9.4. RAID10.9.5. Optical Memory10.9.6. Magnetic Tape

the Control Unit 10.10.1. Microoperations

10.10.2. Processor Control 10.10.3. Wired Implementation

Module 11. The Structure of Computers

11.1. Fundamentals of Computer Design and Evolution

- 11.1.1. Definition of Computer Architecture
- 11.1.2. Evolution and Performance of Architectures
- 11.1.3. Parallel Architectures and Levels of Parallelism

11.5. Segmented Processors

- 11.5.1. What are Segmented Processors?
- 11.5.2. Principles of Segmentation and
- Performance Enhancement
- 11.5.3. Segmented Processor Design
- 11.5.4. Optimization of Functional Channels
- 11.5.5. Interrupt Handling on a Segmented Processor

11.9. Parallel Computers

- 11.9.1. Parallel Architectures and Levels of Parallelism
- 11.9.2. Motivation to the Study of Parallel Computers
- 11.9.3. Design Space. Classification and General Structure
- 11.9.4. Performance on Parallel Computers
- 11.9.5. Classification of Communication Systems in Parallel Computers
- 11.9.6. General Structure of the Communication System in Parallel Computers
- 11.9.7. The Network Interface in Parallel Computers
- 11.9.8. The Interconnection Network in Parallel Computers
- 11.9.9. Communication System Performance on Parallel Computers

11.2. Computer Performance Evaluation

- 11.2.1. Performance Measures
- 11.2.2. Test Programs (benchmarks)

11.6. Superscalar Processors

Machine Parallelism

11.6.4. Jump Instruction Processing

11.6.1. What are Superscalar Processors?

11.6.3. Superscalar Instruction Processing

11.6.5. Interrupt Handling on a Superscalar

11.6.2. Parallelism between Instructions and

- 11.2.3. Improved Performance
- 11.2.4. Costs of a Computer

11.3. Leveraging the Memory Hierarchy

- 11.3.1. Memory Hierarchy
- 11.3.2. Basic Concepts of the Cache
- 11.3.3. Cache Evaluation and Improvements
- 11.3.4. Virtual Memory

11.7. VLIW Processors

- 11.7.1. What are VLIW Processors?
- 11.7.2. Exploiting Parallelism in VLIW Architectures
- 11.7.3. Compiler Support Resources

11.4. Storage and Other Input/Output Aspects

- 11.4.1. Reliability. Dependability and Availability
- 11.4.2. Disk Storage
- 11.4.3. Flash Storage
- 11.4.4. Connection and Information Transfer Systems

11.8. Vector Processors

- 11.8.1. What are Vector Processors?
- 11.8.2. Vector Architecture
- 11.8.3. The Memory System in Vector Processors
- 11.8.4. Performance Measurements on Vector
- Processors
- 11.8.5. Vector Processing Efficiency

11.10. Interconnection Networks and Multiprocessors

- 11.10.1. Topology and Types of Interconnection
- 11.10.2. Switching in Interconnection Networks
- 11.10.3. Flow Control in Interconnection Networks
- 11.10.5. Memory System Coherence on
 - Multiprocessors
- 11.10.6. Multiprocessor Memory Consistency

Processor

- Networks

- 11.10.4. Routing in Interconnection Networks

- 11.10.7. Multiprocessor Synchronization

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Module 12. Operating Systems

12.1. Introduction to Operating Systems

- 12.1.1. Concept
- 12.1.2. Historical Recap
- 12.1.3. Fundamental Building Blocks of Operating Systems
- 12.1.4. Objectives and Functions of Operating Systems

12.2. Structure of Operating Systems

12.2.1. Operating System Services12.2.2. Operating System User Interface12.2.3. System Calls12.2.4. Types of System Calls

12.3. Process Planning

12.3.1. Basic Concepts 12.3.2. Planning Criteria 12.3.3. Planning Algorithms

12.4. Processes and Threads

12.4.1. Process Concept 12.4.2. Thread Concept 12.4.3. Process Status 12.4.4. Process Control

12.5. Concurrence. Mutual Exclusion, Synchronization, and Interlocking

- 12.5.1. Principles of Concurrence
- 12.5.2. Mutual Exclusion
- 12.5.3. Traffic Lights
- 12.5.4. Monitors
- 12.5.5. Message Passing 12.5.6. Fundamentals of Interlocking
- 12.5.7. Interlock Prevention
- 12.5.8. Interlock Avoidance
- 12.5.9. Interlock Detection and Recovery

12.9. File System Interface and Implementation

- 12.9.1. Archiving Concept
- 12.9.2. Access Methods
- 12.9.3. Directory Structure
- 12.9.4. Structure of a File System
- 12.9.5. File System Interface and Implementation 12.9.6. Directories System Interface and
- Implementation
- 12.9.7. Allocation Methods
- 12.9.8. Management of Free Space

12.6. Memory Management

12.6.1. Memory Management Requirements12.6.2. Process Memory Model12.6.3. Contiguous Assignment Scheme12.6.4. Segmentation12.6.5. Pagination12.6.6. Segmented Pagination

12.7. Virtual Memory

12.7.1. Virtual Memory Fundamentals12.7.2. Life Cycle of a Page12.7.3. Virtual Memory Management Policy12.7.4. Localization Policy12.7.5. Extraction Policy12.7.6. Replacement Policy

12.8. Input/Output System

12.8.1. Input/Output Devices 12.8.2. Input/Output System Organization 12.8.3. Use of Buffers 12.8.4. Magnetic Disk

12.10. Protection

12.10.1. Objectives 12.10.2. Authentication 12.10.3. Authorization 12.10.4. Cryptography

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Module 13. Advanced Operating System

13.1. Concept of System Operations

13.1.1. Operating System Functions13.1.2. Process Management13.1.3. Memory Management13.1.4. Directory and File Management13.1.5. The Shell: Interactivity13.1.6. Security/Safety13.1.7. Design Objectives

13.5. Windows and GNU/Linux

13.5.1. Windows Structure 13.5.2. Structure of GNU/Linux

- **13.2. History of Operating Systems** 13.2.1. The First Generation
- 13.2.2. The Second Generation 13.2.3. Third Generation 13.2.4. Fourth Generation 13.2.5. The OS/2 Case 13.2.6. The History of GNU/Linux
- 13.2.7. The History of Windows

13.6. The GNU/Linux Shell and PowerShell

13.6.1. The Command Interpreter 13.6.2. Using the Command Interpreter 13.6.3. GNU/Linux Commands 13.6.4. Basic PowerShell Syntax 13.6.5. Basic PowerShell Commands

13.3. Structure of an Operating System

- 13.3.1. Monolithic Systems
- 13.3.2. Layered Systems
- 13.3.3. Virtualisation
- 13.3.4. Exokernel
- 13.3.5. Client-server Model 13.3.6. Distributed Systems

13.7. Shell Programming

13.7.1. Script Programming 13.7.2. Syntax

13.4. System Calls

- 13.4.1. System Calls. Concepts
- 13.4.2. System Calls for Process Management
- 13.4.3. System Calls for File and Directory
 - Administration
- 13.4.4. Calls to the Communication System

13.8. System Programming in GNU/ Linux

13.8.1. C Language under UNIX 13.8.2. Compilation Tools 13.8.3. Error Handling

13.9. System Calls on Files

13.9.1. Basic Calls 13.9.2. Calls on Directories 13.9.3. Advanced Calls

13.10. System Calls on Processes

13.10.1. Basic Calls 13.10.2. Signals 13.10.3. Pipelines

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Module 14. Free Software and Open Knowledge

14.1. Introduction to Free Software

- 14.1.1. History of Free Software
- 14.1.2. "Freedom" in Software
- 14.1.3. Licenses for the Use of Software Tools
- 14.1.4. Intellectual Property of Software
- 14.1.5. What is the Motivation for Using Free Software?
- 14.1.6. Free Software Myths
- 14.1.7. Top 500

14.5. The GNU/Linux Operating System

- 14.5.1. Architecture
- 14.5.2. Basic Directory Structure
- 14.5.3. File System Characteristics and Structure
- 14.5.4. Internal Representation of the Files

14.9. Version Control

14.9.1. Basic Concepts 14.9.2. Git 14.9.3. Cloud and Self-hosted Git Services 14.9.4. Other Version Control Systems

14.2. Open Knowledge and CC Licenses

14.2.1. Basic Concepts

System

14.6.1. History

14.6.2. Architecture

14.6.3. Android Forks

Development

- 14.2.2. Creative Commons Licenses
- 14.2.3. Other Content Licenses
- 14.2.4. Wikipedia and Other Open Knowledge Projects

14.3. Main Free Software Tools

- 14.3.1. Operating Systems
- 14.3.2. Office Applications
- 14.3.3. Business Management Applications
- 14.3.4. Web Content Managers
- 14.3.5. Multimedia Content Creation Tools 14.3.6. Other Applications

its Costs 14.4.1. Free Software: Yes or No? 14.4.2. Truths and Lies about Free Software

14.4. The Company: Free Software and

- 14.4.3. Business Software Based on Free Software
- 14.4.4. Software Costs
- 14.4.5. Free Software Models

14.6. The Android Mobile Operating 14.7. Website Creation with WordPress

- 14.7.1. WordPress Features and Structure
- 14.7.2. Creation of Sites on WordPress.com 14.7.3. Installation and Configuration of WordPress
- on your own Server
- 14.7.4. Installing Plugins and Extending WordPress 14.7.5. Creation of WordPress Plugins
- 14.7.6. WordPress Theme Creation

14.8. Free Software Trends

- 14.8.1. Cloud Environments
- 14.8.2. Monitoring Tools
- 14.8.3. Operating Systems
- 14.8.4. Big Data and Open Data 2.0
- 14.8.5. Quantum Computing

14.10.1. Main Distributions

14.10. Custom GNU/Linux Distributions

14.10.2. Distributions Derived from Debian 14.10.3. Deb Package Creation 14.10.4. Modification of the Distribution 14.10.5. ISO Image Generation

14.6.4. Introduction to Android Development

14.6.5. Frameworks for Mobile Application



Module 15. Computer Networks

15.1. Computer Networks on the Internet

15.5.1. Link Layer and Error Detection and

15.5.2. Multiple Access Links and Protocols

Correction Techniques

- 15.1.1. Networks and Internet
- 15.1.2. Protocol Architecture

15.5. The Link Layer

15.2. The Application Layer

15.2.1. Model and Protocols15.2.2. FTP and SMTP Services15.2.3. DNS Service15.2.4. HTTP Operation Model15.2.5. HTTP Message Formats15.2.6. Interaction with Advanced Methods

15.6. LAN Networks

15.6.1. Network Topologies 15.6.2. Network and Interconnection Elements

15.3. The Transport Layer

15.3.1. Communication Between Processes 15.3.2. Connection-oriented Transportation: TCP and SCTP

15.4. The Network Layer

15.4.1. Circuit and Packet Switching 15.4.2. IP Protocol (v4 and v6) 15.4.3. Routing Algorithms

15.7. IP Addressing

15.7.1. IP Addressing and Subnetting 15.7.2. Overview: An HTTP Request

15.8. Wireless and Mobile Networks

15.8.1. 2G, 3G and 4G Mobile Networks and Services 15.8.2. 5G Networks

15.9. Network Security

15.5.3. Link Level Addressing

15.9.1. Fundamentals of Communications Security 15.9.2. Access Control

15.9.3. System Security

15.9.4. Fundamentals of Cryptography

15.9.5. Digital Signature

15.10. Internet Security Protocols

15.10.1. IP Security and Virtual Private Networks (VPN) 15.10.2. Web Security with SSL/TLS

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Module 16. Emerging Technologies			
16.1. Mobile Technologies 16.1.1. Mobile Devices 16.1.2. Mobile Communications	16.2. Mobile Services 16.2.1. Types of Applications 16.2.2. Decision on the Type of Mobile Application 16.2.3. Mobile Interaction Design	 16.3. Location-based Services 16.3.1. Location-Based Services 16.3.2. Technologies for Mobile Localization 16.3.3. GNSS-Based Localization 16.3.4. Accuracy and Accuracy in Localization Technologies 16.3.7. Beacons: Location by Proximity 	16.4. User Experience (UX) Design 16.4.1. Introduction to User Experience (UX) 16.4.2. Technologies for Mobile Localization 16.4.3. Methodology for UX Design 16.4.4. Best Practices in the Prototyping Process
16.5. Extended Reality 16.5.1. Extended Reality Concepts 16.5.2. Technologies for Mobile Localization 16.5.3. AR and VR Application and Services	16.6. Internet of Things (IoT). (I) 16.6.1. IoT Fundamentals 16.6.2. IoT Devices and Communications	16.7. Internet of Things (IoT). (II) 16.7.1. Beyond Cloud Computing 16.7.2. (Smart Cities) 16.7.3. Digital Twin 16.7.4. IoT Projects	16.8. Blockchain 16.8.1. Blockchain Fundamentals 16.8.2. Blockchain-based Applications and Services
16.9. Autonomous Driving 16.9.1. Technologies for Autonomous Driving 16.9.2. V2X Communications	16.10. Innovative Technology and Research 16.10.1. Fundamentals of Quantum Computing 16.10.2. Applications of Quantum Computing 16.10.3. Introduction to Research		

Module 17. Information Systems Security

17.1. A global Perspective on Security, Cryptography and Classical Cryptanalysis

- 17.1.1. Computer Security: Historical Perspective 17.1.2. But What Exactly is Meant by Security?
- 17.1.3. History of Cryptography
- 17.1.4. Substitution Ciphers
- 17.1.5. Case Study: The Enigma Machine

17.5. Security Architectures

- 17.5.1. Traditional Security Architectures
- 17.5.2. Secure Socket Layer: SSL
- 17.5.3. SSH Protocol
- 17.5.4. Virtual Private Networks (VPNs)
- 17.5.5. External Storage Unit Protection Mechanisms
- 17.5.6. Hardware Protection Mechanisms

17.2. Symmetric Cryptography

17.2.1. Introduction and Basic Terminology
17.2.2. Symmetric Encryption
17.2.3. Operating Modes
17.2.4. DES
17.2.5. The New AES Standard
17.2.6. Encryption in Flow
17.2.7. Cryptanalysis

17.6. System Protection Techniques and

Secure Code Development

17.6.1. Operational Safety

17.6.7. Signature-Based IDS 17.6.8. Lure Systems

Development 17.6.10. Failure Management

17.6.12. Cryptographic Botches

17.6.3. Monitoring

17.6.5. Host IDS

17.6.6. Network IDS

17.6.2. Resources and Controls

17.6.4. Intrusion Detection Systems

17.6.9. Basic Security Principles in Code

17.6.11. Public Enemy Number 1: Buffer Overflows

17.3. Asymmetric Cryptography

17.3.1. Origins of Public Key Cryptography17.3.2. Basic Concepts and Operation17.3.3. The RSA Algorithm17.3.4. Digital Certificates17.3.5. Key Storage and Management

17.7. Botnets and Spam

- 17.7.1. Origin of the Problem
- 17.7.2. Spam Process
- 17.7.3. Sending Spam
- 17.7.4. Refinement of Mailing Lists
- 17.7.5. Protection Techniques
- 17.7.6. Antispam Service Offered by Third Parties
- 17.7.7. Study Cases
- 17.7.8. Exotic Spam

17.4. Network Attacks

17.4.1. Network Threats and Attacks17.4.2. Enumeration17.4.3. Traffic Interception: Sniffers17.4.4. Denial of Service Attacks17.4.5. ARP Poisoning Attacks

17.8. Web Auditing and Attacks

17.8.1. Information Gathering 17.8.2. Attack Techniques 17.8.3. Tools

17.9. Malware and Malicious Code

17.9.1. What is Malware?
17.9.2. Types of Malware
17.9.3. Virus
17.9.4. Cryptovirus
17.9.5. Worms
17.9.6. Adware
17.9.7. Spyware
17.9.8. Hoaxes
17.9.9. Phishing
17.9.10. Trojans
17.9.11. The Economy of Malware
17.9.12. Possible Solutions

17.10. Forensic Analysis

17.10.1. Evidence Collection 17.10.2. Evidence Analysis 17.10.3. Anti-forensic Techniques 17.10.4. Case Study

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Module 18. Integration Systems

18.1. Introduction to Information Systems in the Company

- 18.1.1. The Role of Information Systems
- 18.1.2. What is an Information System?
- 18.1.3. Dimensions of Information Systems18.1.4. Business Processes and Information
- Systems 18.1.5. I department of SI/TI
- 18.2. Opportunities and Needs of Information Systems in the

Company

- 18.2.1. Organizations and Information Systems
- 18.2.2. Features of Organisations
- 18.2.3. Impact of Information Systems in the Company
- 18.2.4. Information Systems to Achieve a Competitive Advantage
- 18.2.5. Use of Systems in the Administration and Management of the Company

18.5. Supply Chain and Customer Relationship Management Information Systems

- 18.5.1. Definition of Supply Chain
- 18.5.2. Effective Supply Chain Management
- 18.5.3. The Role of Information Systems
- 18.5.4. Supply Chain Management Solutions
- 18.5.5. Customer Relationship Management
- 18.5.6. The Role of Information Systems
- 18.5.7. Implementation of a CRM System 18.5.8. Critical Success Factors in CRM Implementation
- 18.5.9. CRM, e-CRM and Other Trends

18.9. Business Intelligence

- 18.9.1. What is Business Intelligence?
- 18.9.2. BI Implementation Strategy
- 18.9.3. Present and Future in BI

18.6. ICT Investment Decision-Making and Information Systems Planning

- 18.6.1. Criteria for ICT Investment Decisions
- 18.6.2. Linking the Project to the Management and Business Plan
- 18.6.3. Management Implications
- 18.6.4. Redesign of Business Processes
- 18.6.5. Management's Decision on Implementation Methodologies
- 18.6.6. Need for Information Systems Planning
- 18.6.7. Objectives, Participants and Moments
- 18.6.8. Structure and Development of the Systems Planning
- 18.6.9. Follow-up and Updating

18.10. ISO/IEC 12207

- 18.10.1. What is "ISO/IEC 12207"? 18.10.2. Analysis of Information Systems
- 18.10.3. Information System Design
- 18.10.4. Implementation and Acceptance of the
 - Information System

18.3. Basic Concepts of Information Systems and Technologies

- 18.3.1. Data, Information and Knowledge
- 18.3.2. Technology and Information Systems
- 18.3.3. Technology Components
- 18.3.4. Classification and Types of Information Systems
- 18.3.5. Service and Business Process Based Architectures
- 18.3.6. Forms of Systems Integration

18.7. Security Considerations in the Use of ICTs

- 18.7.1. Risk Analysis
- 18.7.2. Security in Information Systems
- 18.7.3. Practical Advice

18.4. Systems for the Integrated Management of Company Resources

- 18.4.1. Business Needs
- 18.4.2. An Integrated Information System for the Company
- 18.4.3. Acquisition vs. Development
- 18.4.4. ERP Implementation
- 18.4.5. Implications for Management
- 18.4.6. Leading ERP Vendors

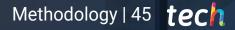
18.8. Feasibility of ICT Project Implementation and Financial Aspects in Information Systems Projects

- 18.8.1. Description and Objectives
- 18.8.2. EVS Participants
- 18.8.3. Techniques and Procedures
- 18.8.4. Cost structure
- 18.8.5. Financial Projection
- 18.8.6. Budgets

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 46 | Methodology

TECH Business School uses the Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

666 At TECH, you will experience a learning methodology that is shaking the foundation 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.

Methodology | 47 tech



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

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch to present executives with challenges and business decisions at the highest level, whether at the national or international level. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and business reality is taken into account.



You will learn, through collaborative activities and real cases, how to solve complex situations in real business environments"

The case method has been the most widely used learning system among the world's leading business schools for as long as they have existed. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They must integrate all their knowledge, research, argue and defend their ideas and decisions.

tech 48 | Methodology

Relearning Methodology

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

We enhance the Case Study with the best 100% online teaching method: Relearning.

Our online system will allow you to organize your time and learning pace, adapting it to your schedule. You will be able to access the contents from any device with an internet connection.

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our online business school is the only one in the world licensed to incorporate this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



Methodology | 49 tech

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically. With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

> Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



tech 50 | Methodology

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.

30%

10%

8%

3%



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.

Methodology | 51 tech



Case Studies

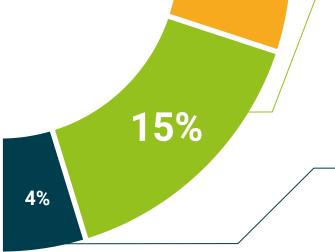
Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best senior management specialists in the world.



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".



30%



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.

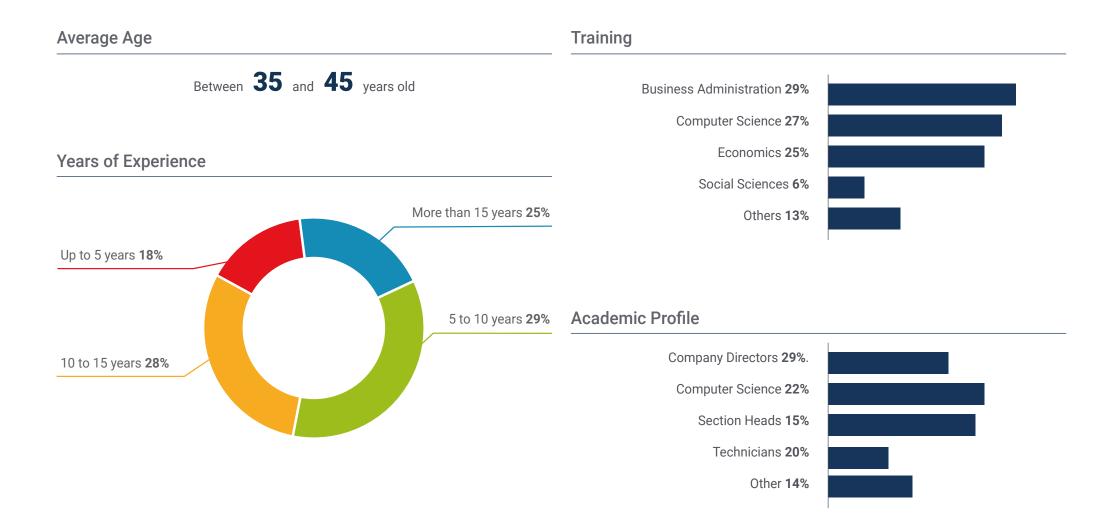
08 Our Students' Profiles

Students who decide to take this Advanced Master's Degree in TECH are business professionals with extensive experience, who have understood the importance of knowing the new technologies to apply to the company in depth and, therefore, seek ways to specialize in this area of knowledge to be able to manage the programs that have been introduced in their businesses, and to get the most out of them.

GG

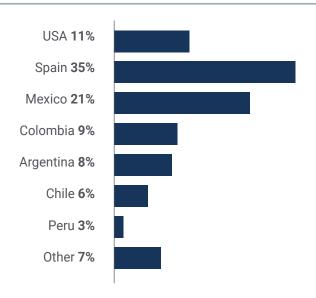
This program will help business professionals specialize in a novel field"

tech 54 | Our Students' Profiles



Our Students' Profiles | 55 tech

Geographical Distribution





Germán Díaz

CIO

"Completing this Advanced Master's Degree has opened the doors to an area of knowledge that is fundamental to my professional development. I am now better able to understand the use we must make of new technologies in the company, and I can manage this work with more confidence. Undoubtedly, the step I needed to give a boost to my career"

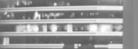
09 Impact on Your Career

10.00

This program is a unique opportunity to improve students' skills and thus improve their employability, giving a boost to their professional careers. It is a high-quality program, which includes the most complete and relevant data on Information Systems Management, as well as a first class teaching staff and the most innovative teaching methodology in the current academic panorama.

Impact on Your Career | 57 tech





and the second second

Obtaining a higher specialization in this field will allow you to improve your employability options in a short time"

52 | Impact for your Career

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

The Advanced Master's Degree in Information Systems Management (Chief Information Officer) at TECH Technological University is an intensive program that prepares students to face business challenges and decisions, both nationally and internationally. The main objective is to promote your personal and professional growth. Help you achieve success.

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

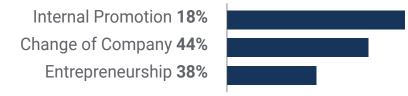
If you want your CV to stand out in the selection processes, do not hesitate and join TECH.

Get the job promotion you want by improving your Rapidly improve your career prospects.

When the change occurs



Type of change



Salary increase

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





10 Benefits for Your Company

This TECH program has been designed with the training needs of business professionals in Information Systems Management in mind, but also what students will be able to contribute to the companies in which they work. Therefore, it will not only be a competitive advantage for the student themselves, providing him with greater employability, but also for the companies, where he will be able to contribute all their value and knowledge.

Benefits for Your Company | 61 tech

66

Bring a new model of Information Systems Management, to your company which is more up to date and more competitive"

tech 62 | Benefits for Your Company

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



Intellectual Capital and Talent Growth

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



Building agents of change

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



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.



Increased international expansion possibilities

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



Benefits for Your Company | 63 tech



Project Development

The manager will be able to work on a real project or develop new projects in the R&D or Business Development area of his or her company.



Increased competitiveness

This Advanced Master's Degree provides students with the necessary skills to take on new challenges and drive the organization forward.

11 **Certificate**

The Advanced Master's Degree in Information Systems Management (Chief Information Officer) 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"

tech 66 | Certificate

This Advanced Master's Degree in Information Systems Management (Chief Information Officer) ccontains the most complete and updated program on the market.

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