

Postgraduate Certificate IT Governance and Management



Postgraduate Certificate IT Governance and Management

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/pk/information-technology/postgraduate-certificate/it-governance-management

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

Through IT governance, companies align their IT strategy with their business strategy. In other words, they provide the company with a framework to ensure that IT investments have a demonstrable return. Therefore, it is not enough to work with information technology; control is required to ensure that its implementation is correct and beneficial. In this sense, TECH has developed a program that will allow its graduates to audit these strategies in order to obtain the support of the company's governing bodies. This will be done through the implementation of different work Frameworks that will allow to mark the way forward. All this, through an online modality and without schedules, so that students can organize themselves according to their own time, thereby enhancing learning.





“

In this Postgraduate Certificate you will learn about the different IT governance frameworks and models so that you can select the one that best suits your business"

Keeping abreast of innovations in an industry is not easy. Technological advances are occurring at an accelerated pace. Failure to implement them will result in a loss of competitiveness, and implementing them incorrectly can even bankrupt the company. For this reason, IT Governance and Management are of vital importance.

To address this field of knowledge, we will start with its definition, structure, management and the different Frameworks currently used. Emphasizing the COBIT and ITIL v4 frameworks.

This will be followed by an analysis of how to measure IT governance performance, with the principles of monitoring and control metrics. We will then move on to IT management with provider procurement, performance monitoring and quality assurance.

Finally, we will work on the acquisition and development of information systems, providing the main methodologies of systems development. And ending with IT Governance and Management applied to Cloud Computing.

These contents will be taught in a 100% online mode, without schedules and with all materials available from the first day. All you need is a device with Internet access. In this way, students will be able to organize themselves according to their own schedules, facilitating personal and work conciliation.

This **Postgraduate Certificate in IT Governance and Management** contains the most complete and up-to-date program on the market. The most important features include:

- » The development of case studies presented by experts in IT Governance and Management
- » The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- » Practical exercises where self-assessment can be used to improve learning.
- » Its special emphasis on innovative methodologies
- » Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- » Content that is accessible from any fixed or portable device with an Internet connection



This program teaches you about the relationship between IT governance and AI, as one of the most important exponents of information technologies"



The program provides for the definition of the monitoring and control requirements that are part of IT governance"

TECH teachers will provide you with tips and tricks to work with the COBIT Frameworks.

In this Postgraduate Certificate we teach you how and where to acquire the best IT service providers.

The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



02 Objectives

The skills acquired by graduates of the Postgraduate Certificate in IT Governance and Management are divided into two branches. On the one hand, you will learn all about IT governance. They will know its key elements, will be able to work with the various Frameworks and will be prepared to measure the performance of the strategy. On the other hand, you will know how to acquire IT service providers, structure project management and apply different system development methodologies.



“

Ensuring the quality of an IT strategy is vital to its success. Become an expert in IT management thanks to this program"



General Objectives

- » Determine the roles of IT governance and IT management, identifying their differences
- » Develop the main elements of IT governance
- » Analyze the most common Frameworks
- » Present the common IT management processes



Graduates of this Postgraduate Certificate will know the reference standards on which the suitability of an IT strategy is based"





Specific Objectives

- » Determine the roles of IT governance and IT management, identifying their differences
- » Develop the main elements of IT governance
- » Analyze the most common Frameworks
- » Present the common IT management processes
- » Establish the importance of IT Governance and Management functions.
- » Identify the different reference models and standards
- » Propose actions for the implementation of an IT Government
- » Analyze the COBIT, ITIL Frameworks
- » Identify IT management functions
- » Examine how new technologies such as Cloud Computing and AI are being integrated into IT governance

03

Course Management

This program has a strong practical component. IT Governance and Management are closely linked to the implementation of IT strategies in companies. Therefore, we have selected a faculty with extensive experience in the workplace. Having previously participated in real IT projects.



“

TECH's teaching faculty will provide practical advice drawn from day-to-day work on IT projects"

Management



Mr. Olalla Bonal, Martín

- » Senior Blockchain Practice Manager at EY.
- » Blockchain Client Technical Specialist for IBM.
- » Director of Architecture for Blocknitive
- » Non-Relational Distributed Databases Team Coordinator for wedoIT (IBM Subsidiary)
- » Infrastructure Architect at Bankia
- » Head of Layout Department at T-Systems
- » Department Coordinator for Bing Data Spain S.L.

Professors

Mr. Gómez Rodríguez, Antonio

- » Principal Cloud Solutions Engineer for Oracle
- » Co-organizer of Málaga Developer Meetup
- » Specialist Consultant for Sopra Group and Everis
- » Team Leader at System Dynamics
- » Software Developer at SGO Software
- » Master's Degree in E-Business from La Salle Business School
- » Postgraduate Degree in Information Technologies and Systems, Catalan Institute of Technology
- » Degree in Telecommunications Engineering from the Polytechnic University of Catalonia

Mr. Marcano Van Grieken, Alejandro Antonio

- » Product Manager at Vikua
- » Backend Developer at InnovativeGX
- » Collaborating teacher at the Metropolitan University of Caracas
- » Degree in Systems Engineering from the Metropolitan University of Caracas
- » Master's Degree in Cybersecurity by the University of León



04

Structure and Content

The syllabus is structured in two parts. The first, broader, deals with IT governance. With concepts such as security, risk, structure and management. It also presents the most widely used Frameworks in the enterprise environment. The second part develops IT management, establishing the criteria for the acquisition of service providers, performance monitoring or system development methodologies.





“

In TECH you will learn first-hand about the Service Value System with the topic dedicated to the ITIL v4 Framework”

Module 1. IT Governance and Management

- 1.1. IT Governance and Management
 - 1.1.1. IT Governance and Management
 - 1.1.2. Advanced IT Governance
 - 1.1.3. IT Governance: Security and Risk
- 1.2. Reference Sources for IT Governance
 - 1.2.1. Frameworks and Models
 - 1.2.2. IT Governance Standards
 - 1.2.3. IT Governance Quality Systems
- 1.3. IT Governance. Structures and Management
 - 1.3.1. Role of IT Governance
 - 1.3.2. IT Governance Structures
 - 1.3.3. Implementation of IT Governance
- 1.4. Key Elements in IT Governance
 - 1.4.1. Enterprise Architecture
 - 1.4.2. Data Governance
 - 1.4.3. Relationship of IT Governance and AI
- 1.5. COBIT. Control Objectives for Information and Related Technologies
 - 1.5.1. COBIT. Control Objectives
 - 1.5.2. Framework COBIT
 - 1.5.3. Areas, Domains and Processes
- 1.6. ITIL v4 Framework
 - 1.6.1. ITIL v4 Framework
 - 1.6.2. Service Value System
 - 1.6.3. Dimensions and Principles
- 1.7. IT Governance Performance Measurement
 - 1.7.1. IT Governance Monitoring and Control Principles
 - 1.7.2. IT Governance Control Metrics
 - 1.7.3. Integral Control Panel





- 1.8. IT Management
 - 1.8.1. IT Management
 - 1.8.2. IT Service Provider Procurement and Management
 - 1.8.3. IT Performance Monitoring
 - 1.8.4. IT Quality Assurance
- 1.9. Acquisition and Development of Information Systems
 - 1.9.1. Project Management Structure
 - 1.9.2. Product Development Methodology
 - 1.9.3. Implementation and Exploitation of Information Systems
- 1.10. Governance, IT Management and Cloud Computing
 - 1.10.1. Governance and IT Management in Cloud Computing Environments
 - 1.10.2. Shared Security Management Model
 - 1.10.3. Enterprise Cloud Architectures



The teaching faculty of this program will provide you with the keys to governance and IT management applied to cloud computing"

05 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"

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”



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.



The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. 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 professional reality is taken into account.

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

The case method has been the most widely used learning system among the world's leading Information Technology 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 that you are presented with in the case method, an action-oriented learning method. Throughout the course, students will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

Relearning Methodology

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

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

In 2019, we obtained the best learning results of all online universities in the world.

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



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has 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, and financial markets and 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 training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for 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.



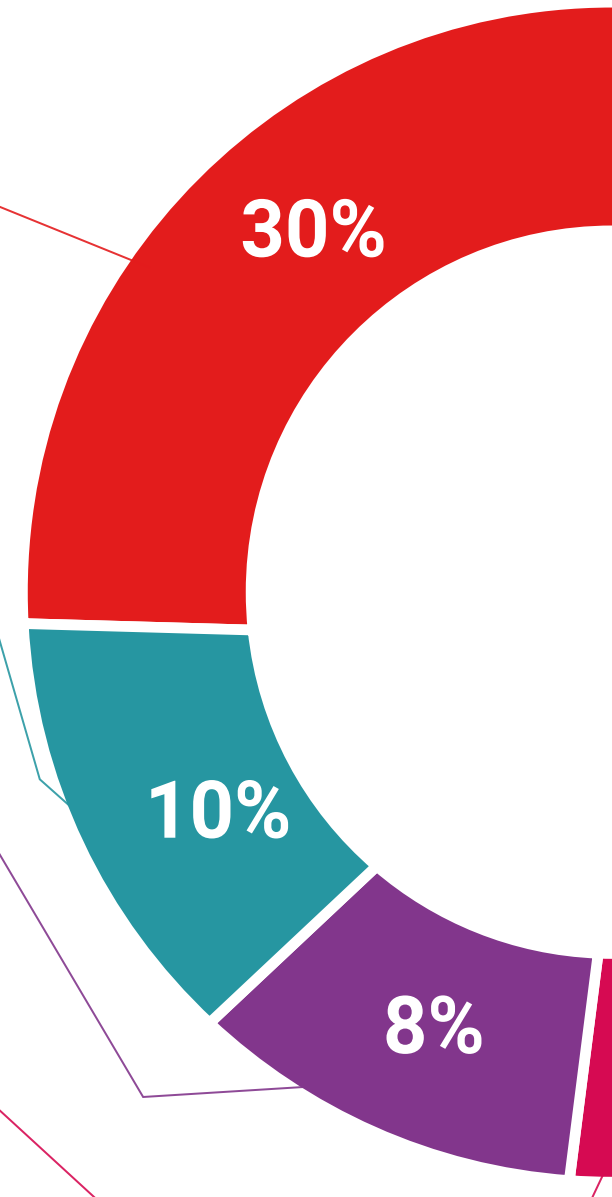
Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Case Studies

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



06 Certificate

The Postgraduate Certificate in IT Governance and Management guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





“

*Successfully complete this program and
receive your university qualification without
having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate in IT Governance and Management** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

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

Title: **Postgraduate Certificate in IT Governance and Management**

Official N° of hours: **150 h.**



*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.



Postgraduate Certificate IT Governance and Management

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Postgraduate Certificate IT Governance and Management