

Postgraduate Certificate Virtualization



Postgraduate Certificate Virtualization

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

Website: www.techtute.com/in/information-technology/postgraduate-certificate/virtualization

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01

Introduction

Cloud Computing, despite being highly developed, is a market that still has a long way to go. This program develops specialized knowledge in the different options offered by Microsoft, one of the best known Cloud Computing providers. Graduates will analyze the services offered, their values and possibilities, in order to have specialized knowledge about the possibilities of use. Computer scientists who successfully complete this 100% online training will have a global vision of Cloud Computing application and the ability to apply it. All this, having been trained by accredited computer engineers who use it in their daily work.





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Give your career a boost by addressing today's latest technologies from a practical and innovative business perspective"

In today's changing market environment, it is important for companies to have all information available whenever and wherever they want it. Cloud Computing provides users with access to data wherever they are via an Internet connection. Using Cloud Computing is an advantageous tool for companies because it saves time and money, increases productivity, improves collaboration and promotes innovation.

The course is very broad, from the justification and advantages of On Cloud Services compared to traditional On Premise models, through an analysis of Microsoft's offer and its different exploitation/interaction schemes, to the detailed analysis of each of the most significant services. In this way it offers a complete and specialized vision of the meaning of an OnCloud platform, as well as an advanced knowledge of Azure Cloud Services.

Additionally, the student has the best study methodology 100% online, which eliminates the need to attend classes in person or have to comply with a predetermined schedule. To this end, in only 6 weeks will delve into the scope of application of Cloud Computing, understanding the competitive advantages they provide, so they will be positioned at the technological forefront and will be able to lead ambitious projects in the present and in the future.

This **Postgraduate Certificate in Virtualization** contains the most complete and up-to-date educational program on the market. Its most notable features are:

- ◆ The development of practical cases presented by experts in Virtualization
- ◆ The graphic, schematic, and practical contents with which they are created, provide 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



Your company will be able to access the IT assets it needs without having to purchase and maintain a local physical IT infrastructure"

“

Cloud Computing resources can be instantly provisioned over the Internet and offer the ability to scale vertically and horizontally with ease”

Delve into Cloud Computing, a market that has a long way to go.

Specialize now and offer companies cost savings, scalability, high performance, economies of scale and much more.

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

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

The design of this program focuses on Problem-Based Learning, by means of which professionals must try to solve the different professional practice situations that are presented to them throughout the course. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



02 Objectives

You will be technically immersed in the most relevant technologies that will play a major role in the technological advances of the coming years. The contents of this degree are not classic subjects; this program specializes the computer scientist in the application of future technologies, but with real applications in the present.





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The possibilities for professional growth of internship program that offers you this training are immense”

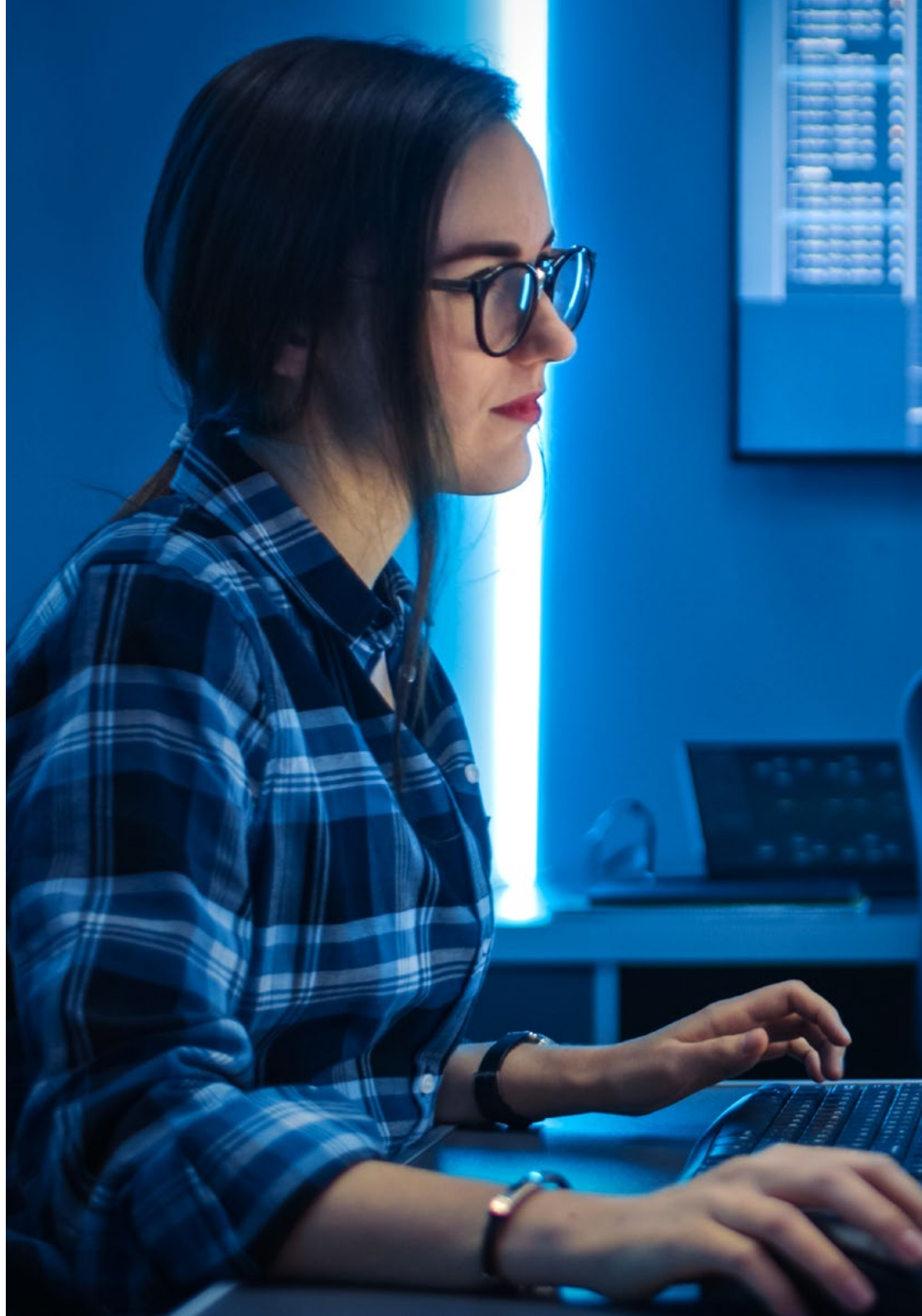


General Objectives

- ◆ Examine Security in Cloud Computing
- ◆ Develop specialized knowledge of MS Azure
- ◆ Interacting with MS Azure
- ◆ Securing services in Azure

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Students will have a global vision of Cloud Computing involved in global digitalization, and the ability to successfully apply them”





Specific Objectives

- ◆ Examine the different Cloud providers and Microsoft's specific offer with Azure
- ◆ Analyze the six ways in which MS Azure provides access to the administration and configuration of its services
- ◆ Examine the various computing services Azure has to offer
- ◆ Generate specialized knowledge on Azure web services platforms
- ◆ Develop the features and advantages of "the "On Cloud Storage " offered by Azure
- ◆ Determine which storage options are most beneficial in each case
- ◆ Delve into Azure IoT cloud services and MS Azure AI services
- ◆ Gain further understanding of Azure Security features and acquire advanced knowledge to ensure Data Security in the Cloud

03

Course Management

TECH has made an exhaustive search for the best professionals in leading technologies and disciplines. Experts in the field of information and Virtualization technologies come together in this Professional Master's Degree to teach graduates the newest technologies and areas of study and the most disruptive and surprising practical applications that can be found. The teachers will give the keys and tools that are in their hands to lead INFORMÁTICA to a horizon of unthinkable professional growth.



“

*Virtualization professionals world's
will guide you to lead the global
digital transformation and evolution”*

Management



Mr. Molina Molina, Jerónimo

- ◆ Head of the Artificial Intelligence Department at Ibermática
- ◆ IA Engineer & Software Architect at NASSAT - Internet Satellite in Motion
- ◆ Senior Consultant at Hexa Ingenieros. Introducer of Artificial Intelligence (ML and CV)
- ◆ Expert in Artificial Intelligence Based Solutions, in the fields of Computer Vision, ML/DL and NLP
- ◆ Expert in Business Creation and Development at Bancaixa - FUNDEUN Alicante
- ◆ Computer Engineer from the University of Alicante
- ◆ Master's Degree in Artificial Intelligence from the Catholic University of Avila
- ◆ Executive MBA (European Business Campus Forum)

Professors

Mr. Domenech Espí, Plácido

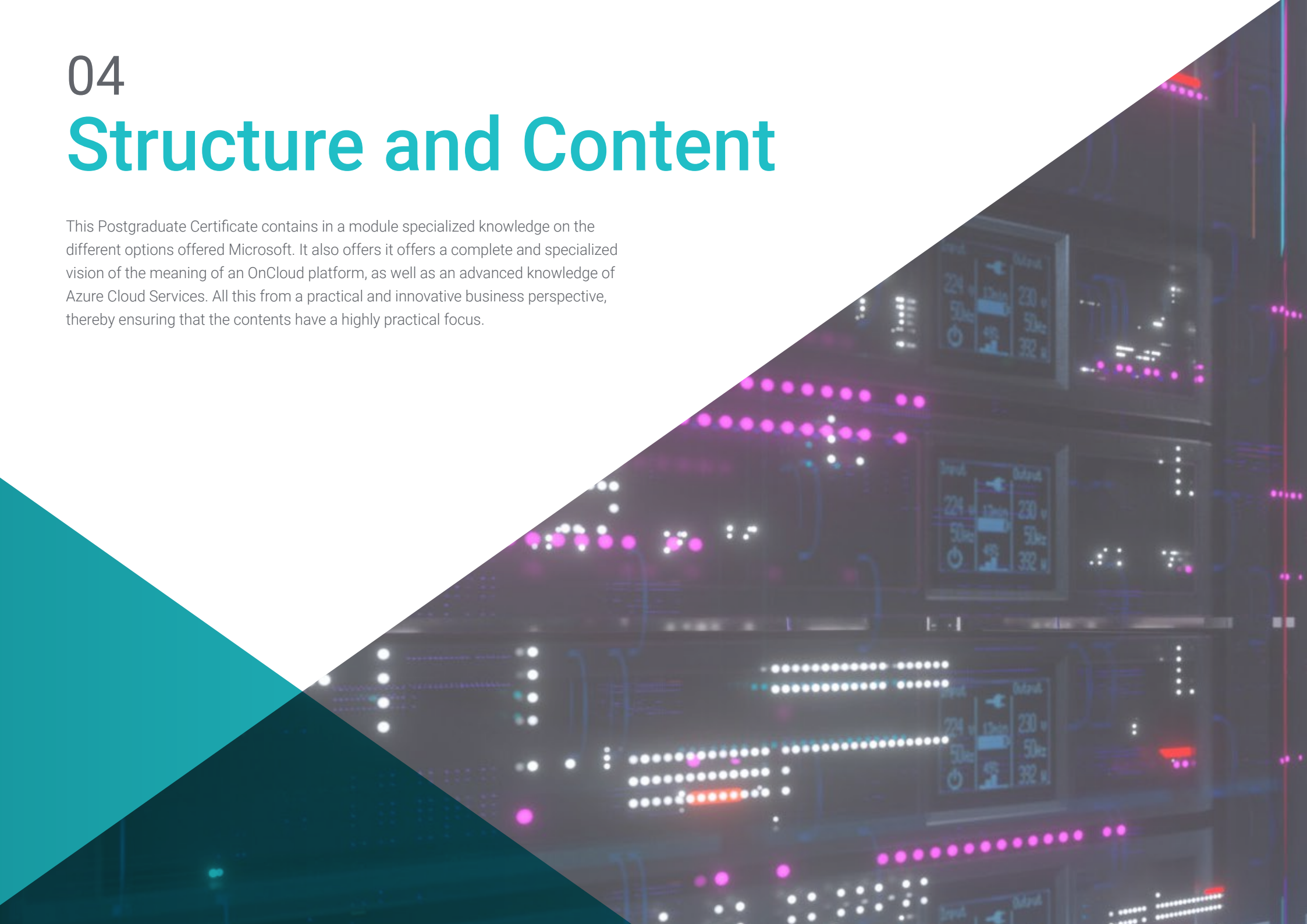
- ◆ Software Architect specialized in Artificial Intelligence
- ◆ Founder and Managing Director of VISOPHY, MXND, MINDS HUB and ALICANTE.AI
- ◆ Consultant in Smart City projects and development team management
- ◆ Computer Management Engineer from the University of Alicante



04

Structure and Content

This Postgraduate Certificate contains in a module specialized knowledge on the different options offered Microsoft. It also offers it offers a complete and specialized vision of the meaning of an OnCloud platform, as well as an advanced knowledge of Azure Cloud Services. All this from a practical and innovative business perspective, thereby ensuring that the contents have a highly practical focus.



“

This program it offers a complete and specialized vision of the meaning of an OnCloud platform, as well as an advanced knowledge of Azure Cloud Services”

Module 1. Communication Innovation with Cloud Computing

- 1.1. Cloud Computing State of the art of the online revolution
 - 1.1.1. Cloud Computing
 - 1.1.2. Suppliers
 - 1.1.3. Microsoft Azure
- 1.2. Interaction Methods. Tool Configuration and Management. Cloud Services
 - 1.2.1. Portal
 - 1.2.2. App
 - 1.2.3. Powershell
 - 1.2.4. Azure CLI
 - 1.2.5. Azure REST API.
 - 1.2.6. ARM Templates
- 1.3. Computing Available OnCloud Services
 - 1.3.1. Virtual Machine
 - 1.3.2. Containers
 - 1.3.3. AKS / Kubernetes
 - 1.3.4. Function (Serverless)
- 1.4. Computing Available OnCloud Services. Web Apps
 - 1.4.1. Web
 - 1.4.2. Web Apps
 - 1.4.3. Rest API
 - 1.4.4. API Management
- 1.5. Cloud Storage Systems. Security and Communications
 - 1.5.1. Storage
 - 1.5.2. Data Lake
 - 1.5.3. Data Factory
 - 1.5.4. Data Services
 - 1.5.5. Backup Copies





- 1.6. OnCloud Databases. Structured OnCloud information. Unlimited Scalability
 - 1.6.1. Azure SQL
 - 1.6.2. PostgreSQL / MySQL.
 - 1.6.3. Azure Cosmos DB.
 - 1.6.4. Redis
- 1.7. IoT. OnCloud Device Data Management and Storage
 - 1.7.1. Stram Analytics
 - 1.7.2. Digital Twins
- 1.8. OnCloud Artificial Intelligence
 - 1.8.1. Machine Learning
 - 1.8.2. Cognitive Services
 - 1.8.3. Quantum Computing
- 1.9. OnCloud Computing. Advanced Features
 - 1.9.1. Security/Safety
 - 1.9.2. Monitoring. DataDog
 - 1.9.3. Application Insights
- 1.10. OnCloud Computing Applications
 - 1.10.1. LOB Scenario: Customer Relationship Management (CRM)
 - 1.10.2. IoTScenario: Smart City
 - 1.10.3. AI Scenario: Chat Bot

“ *These subjects are covered in depth, with supporting material, oriented to experienced Communication Management with a great interest in the topics of study*”

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.



A close-up photograph of a person's hands typing on a laptop keyboard. The image is partially obscured by a large teal diagonal graphic that covers the top right and bottom right portions of the page. The lighting is soft, highlighting the texture of the skin and the keys.

“

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.

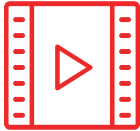
Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

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.



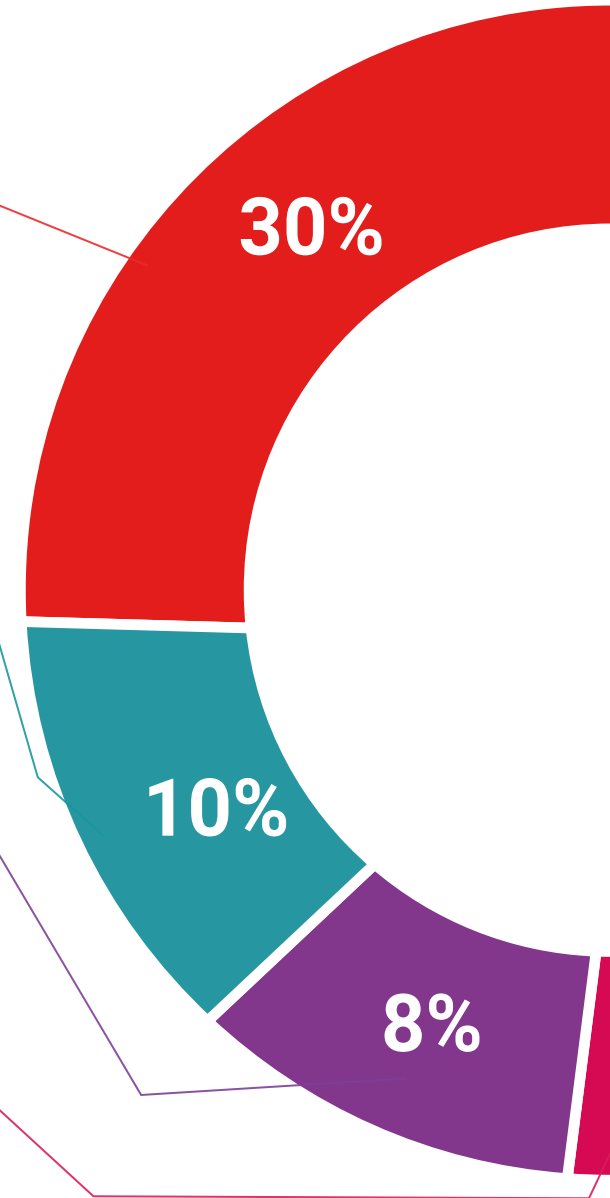
Practising Skills and Abilities

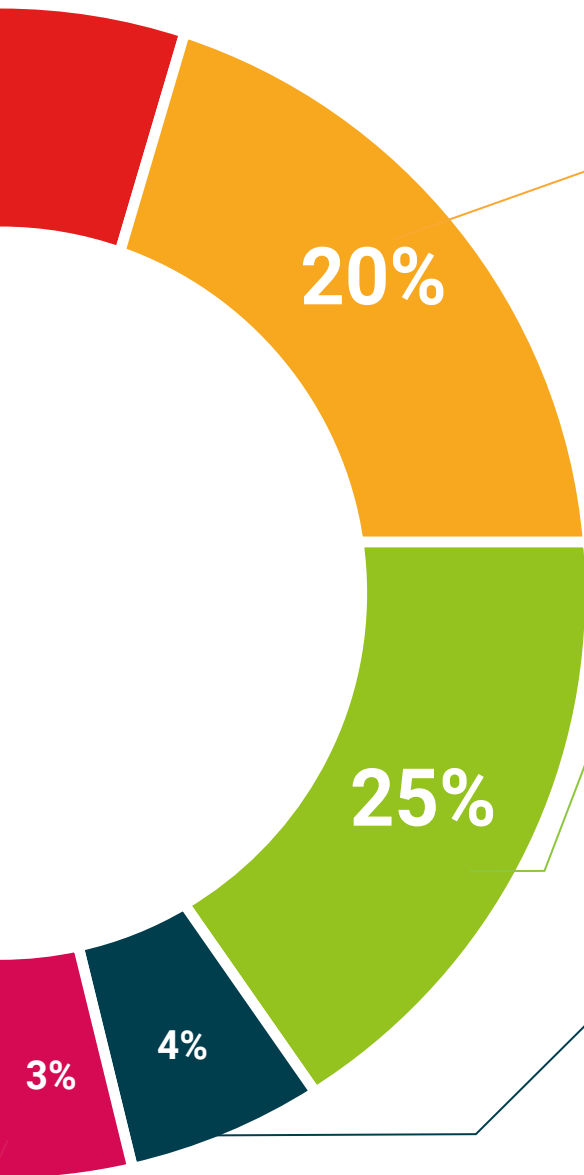
They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



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





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

This **Postgraduate Certificate in Virtualization** 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 Virtualization**

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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
development languages
virtual classroom



Postgraduate Certificate Virtualization

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

Postgraduate Certificate Virtualization

