



Postgraduate Certificate Data Processing in Different Formats and Different Sources

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Official No of hours: 150 h.

Website: www.techtitute.com/information-technology/postgraduate-certificate/data-processing-different-formats-different-sources

Index

01		02			
Introduction		Objectives			
	p. 4		p. 8		
03		04		05	
Course Management		Structure and Content		Methodology	
	p. 12		p. 16	06	p. 20
				Certificate	
					p. 28





tech 06 | Introduction

This Postgraduate Certificate is aimed at applying all this intelligence in future scenarios that are similar to the situations already experienced.

In this module, the student will receive concepts, techniques, methodologies and knowledge of languages that will help him/her to apply them in mining large volumes of data, which was once an unfeasible task with classical statistical techniques.

Artificial Intelligence algorithms and techniques such as decision trees, classification and association rules, neural networks or Deep learning, the latter two under the framework of clustering techniques for unsupervised classification will be discussed. Upon completion of this module, the student will be able to apply data mining tools to solve learning problems, interpreting the results obtained, as well as the ability to design an intelligent system capable of inferring new knowledge.

This Postgraduate Certificate in Data Processing in Different Formats and Different Sources contains the most complete and up-to-date educational program on the market. The most important features of the program include:

- Practical case studies presented by experts
- 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



A complete update that will provide you with the working capacity of a specialist in the field"



The most useful, practical and efficient learning systems in the international educational system, at your fingertips"

The program's teaching staff includes professionals from sector who contribute their work experience to this training 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 training programmed to train 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 professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

This program has the best teaching material available online or downloadable, to facilitate your study and effort management.

A highly efficient Postgraduate Certificate that will allow you to advance efficiently in everything you will need in this area of work.







tech 10 | Objectives



General Objectives

- Learn concepts, techniques, methodologies and knowledge of languages that will be useful to apply them in big data mining
- Delve deep into Artificial Intelligence algorithms and techniques such as decision trees, classification and association rules, neural networks or Deep learning
- Know the data mining tools for solving learning problems, interpreting the results obtained
- Design an intelligent system capable of inferring new knowledge

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Specific Objectives

- Know the environments most used by Data Scientists
- Know how to process data in different formats from different sources
- Learn from the need to guarantee the veracity of the data as a prior step to its processing
- Identify new technologies as pedagogical tools in the communication of the different business realities
- Know the latest trends in the creation of intelligent entities based on deep learning and neural networks



A stimulating professional growth journey designed to keep you interested and motivated throughout the training"







tech 14 | Course Management

Management



Mr. Galindo, Luis Ángel

- Senior High Performance Consultant with 16 years of experience
- Definition, development and implementation of a successful open innovation model, with +10% year-on-year revenue growth leveraged on innovative assets
- Definition, development and implementation of successful Digital Transformation Programs for more than 8 years and 700+ people leading a pioneering role in the industry
- Implementation of 20+ complex consulting projects worldwide for large companies in artificial intelligence, economic
 intelligence, cybersecurity, business development, digital transformation, risk assessment, process optimization and people
 management
- Expert in understanding customers and translating their needs into actual sales

Professors

Mr. Almansa, Antonio

- Design, implementation and integration of the Julian Camarillo DC contingency center
- Senior Technician: operation, engineering and architecture of the Data Center (DC) networks located in Independencia and Orduña, as well as the transport network at national level for tariffs and discharges
- Level 2 Expert: design and implementation of the networks (with technological change) of the DC of Fco. Sancha and later Manuel Tovar





A comprehensive and multidisciplinary program that will allow you to excel in your career"





tech 18 | Structure and Content

Module 1. Data Analysis Tools

- 1.1. Data Science R Environment
- 1.2. Data Science Python Environment
- 1.3. Static and Statistical Graphs
- 1.4. Data Processing in Different Formats and Different Sources
- 1.5. Data Cleaning and Preparation
- 1.6. Exploratory Studies
- 1.7. Decision Trees
- 1.8. Classification and Association Rules
- 1.9. Neural Networks
- 1.10. Deep Learning

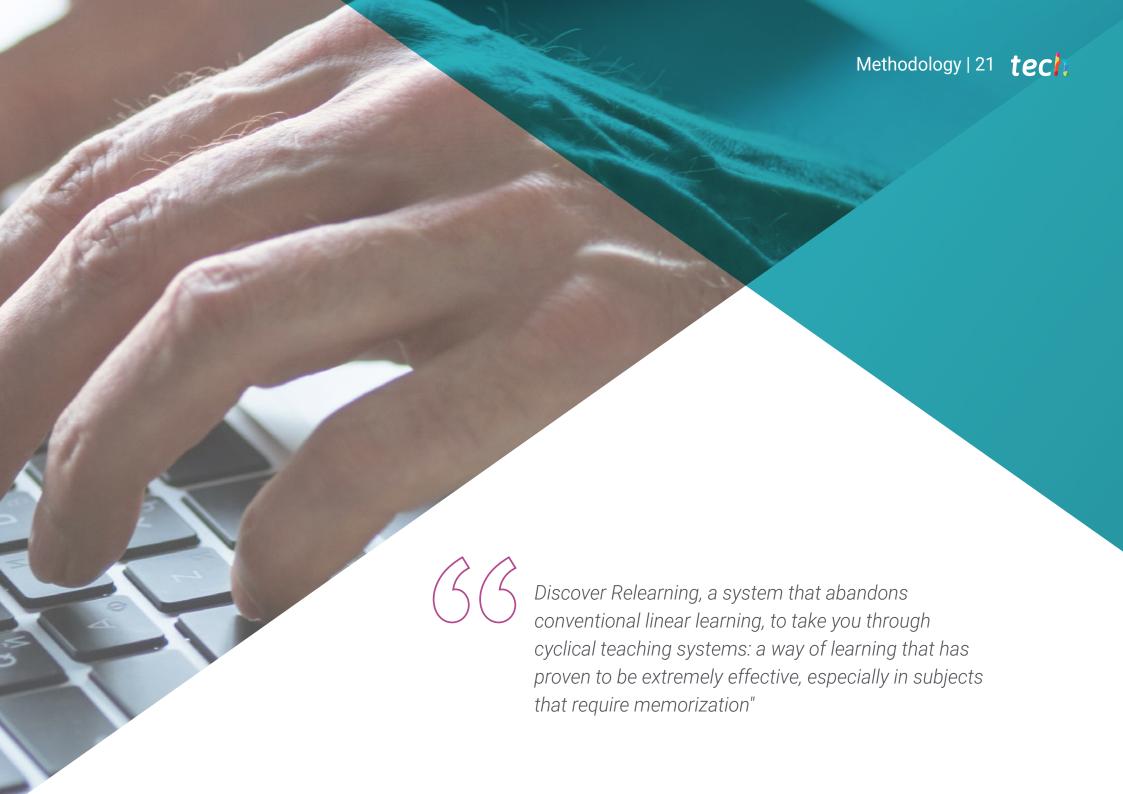




A complete update that will provide you with the working capacity of a specialist in the field"







tech 22 | Methodology

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.



Methodology | 25 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.

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.



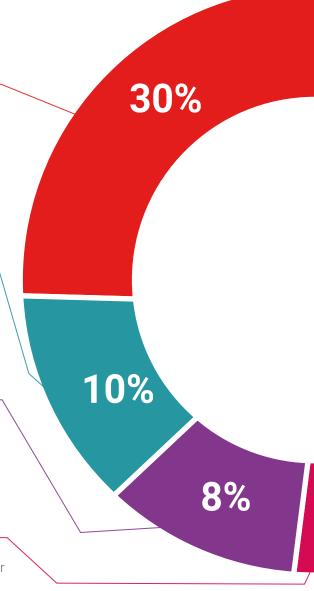
Practising Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic 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.



Methodology | 27 tech



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.

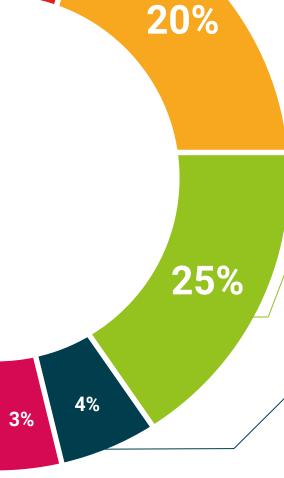


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

Testing & Retesting

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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.







tech 30 | Certificate

This **Postgraduate Certificate in Data Processing in Different Formats and Different Sources** 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 Data Processing in Different Formats and Different Sources

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^{*}Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost...

health confidence people

leducation information tutors
guarantee accreditation teaching
institutions technology learning



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