



Postgraduate Certificate Applied Design Technologies and Artificial Intelligence

» Modality: online

» Duration: 6 weeks

» Certificate: TECH Technological University

» Dedication: 16h/week

» Schedule: at your own pace

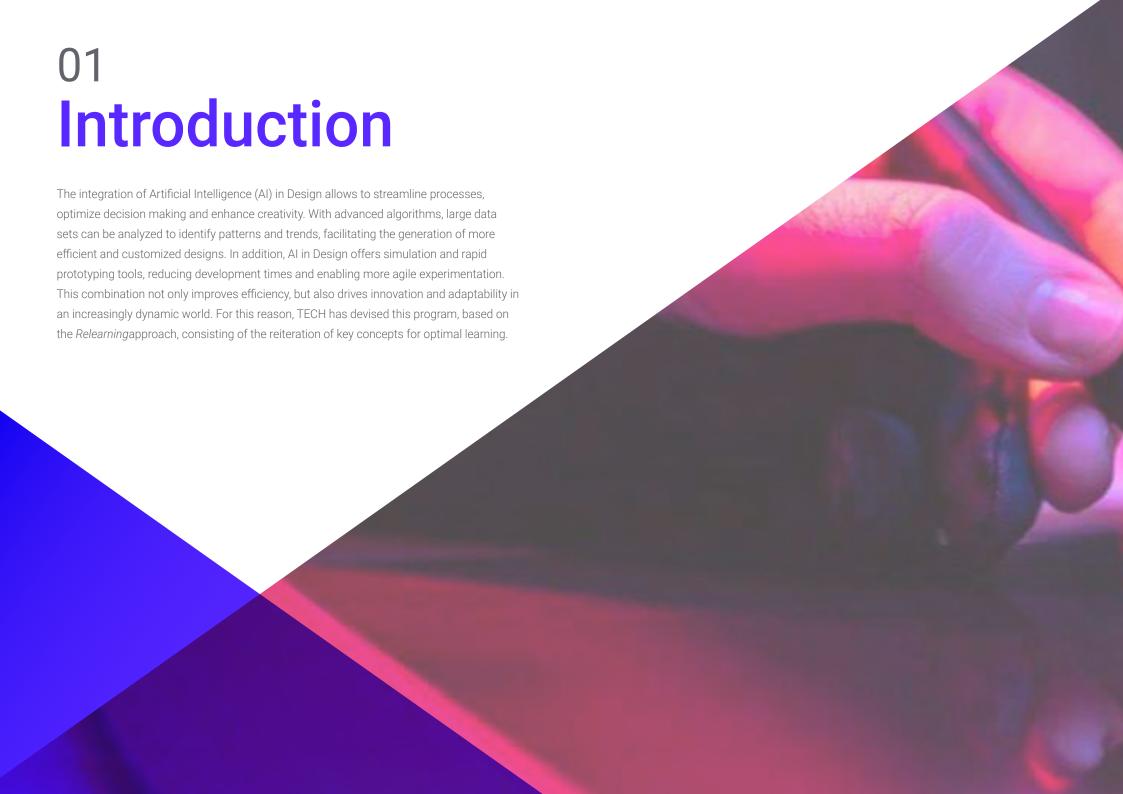
» Exams: online

Website: www.techtitute.com/us/artificial-intelligence/postgraduate-certificate/applied-design-technologies-artificial-intelligence

Index

> 06 Certificate

> > p. 28





tech 06 | Introduction

Applied Design Technologies and Artificial Intelligence (AI) have significantly revolutionized the way we conceive, develop and experience Design in various disciplines. By incorporating these tools, unlimited horizons have opened up in terms of creativity, efficiency and personalization. All enhances the ability to analyze data and patterns, allowing a deeper understanding of user preferences and dynamically adapting to their needs.

This is how this Postgraduate Certificate in Applied Design Technologies and Artificial Intelligence was born, which will focus on providing professionals with practical tools and fundamental knowledge to make the most of advanced technologies in the field of Design. The course will cover everything from the incorporation of virtual assistants to Al-assisted collaboration in editorial teams, providing a complete overview of the possibilities offered by these innovations.

It will also explore how AI can boost creativity and efficiency in the design process, analyzing relevant case studies and encouraging practical experimentation so that graduates acquire solid skills in the implementation of these technologies. In addition, the importance of human-machine collaboration will be emphasized.

At the end of the program, students will be prepared to effectively apply emerging technologies in Design, with a deep understanding of how AI can transform the way we conceive, create and materialize ideas, offering more efficient and creative solutions.

In this context, TECH has developed a rigorous academic program backed by the innovative *Relearning*method. This educational methodology will focus on reiterating key principles to ensure a complete understanding of the content. In addition, accessibility will be paramount: only an electronic device with an Internet connection will be required to explore the material at any time, allowing students to dispense with the need to attend in person or follow strict schedules.

This **Postgraduate Certificate in Applied Design Technologies and Artificial Intelligence** contains the most complete and up-to-date program on the market.
The most important features include:

- Case studies presented by experts in Applied Design Technologies and Artificial Intelligence
- The graphic, schematic and practical contents of the book provide technical and practical information on those disciplines that are essential for professional practice
- Practical exercises where the self-assessment process can be carried out 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



As a designer, your interaction with Artificial Intelligence will enhance the generation of aesthetic and functional solutions, promoting a more accessible, sustainable and user experience-centered Design"



Using AI in your Design projects will facilitate the automation of repetitive tasks, freeing up time for conceptual exploration and innovation. Bet on TECH!"

The program's teaching staff includes professionals from the 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 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 students will be assisted by an innovative interactive video system created by renowned and experienced experts.

You'll delve deeper into Adaptive and Predictive Design, all through an extensive library of the most innovative multimedia resources. Enroll now!

Thanks to this 100% online course, you will master the automatic generation of multimedia content in Editorial Design in a simple and agile way.







tech 10 | Objectives



General Objectives

- Develop skills to implement artificial intelligence tools in design projects, including automatic content generation, design optimization and pattern recognition
- Develop skills in adaptive design, considering user behavior and applying advanced AI tools
- Critically analyze the challenges and opportunities when implementing personalized designs in industry using Artificial Intelligence
- Understand the transformative role of Artificial Intelligence in design and manufacturing process innovation





Specific Objectives

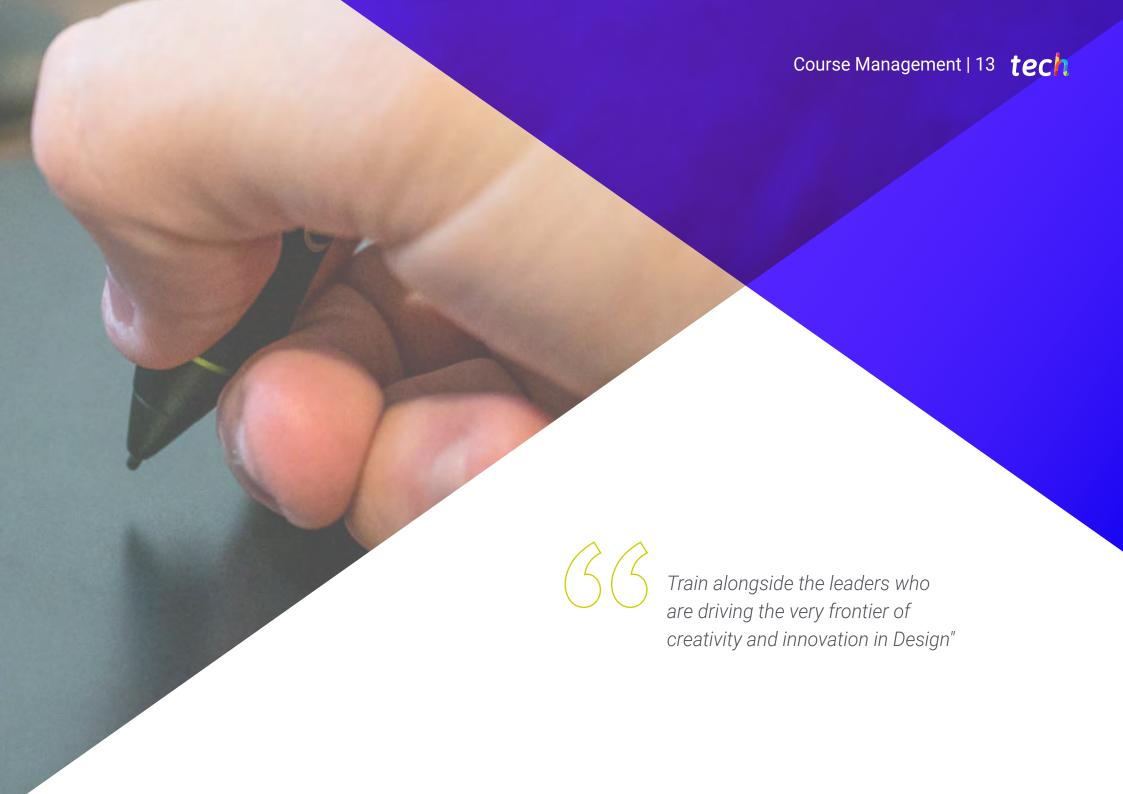
- Enhance comprehensive understanding and practical skills to leverage advanced technologies and Artificial Intelligence in various facets of Design
- Understand the strategic integration of emerging technologies and AI in the Design domain
- Apply microchip architecture optimization techniques using AI to improve both performance and efficiency
- Properly use algorithms for the automatic generation of multimedia content, enriching visual communication in editorial projects
- Implement the knowledge and skills acquired during this program to real projects involving technologies and AI in Design



Become a pioneer in the convergence between design creativity and the unlimited potential of artificial intelligence"







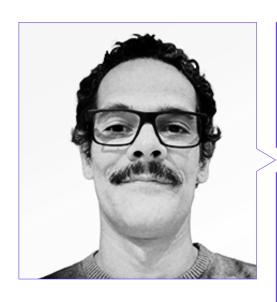
tech 14 | Course Management

Management



Dr. Peralta Martín-Palomino, Arturo

- CEO and CTO at Prometeus Global Solutions
- CTO at Korporate Technologies
- CTO at Al Shephers GmbH
- Consultant and Strategic Business Advisor at Alliance Medical
- Director of Design and Development at DocPath
- PhD in Psychology from the University of Castilla La Mancha
- PhD in Economics, Business and Finance from the Camilo José Cela University
- PhD in Psychology from University of Castilla La Mancha
- Professional Master's Degree in Executive MBA by the Isabel I University
- Professional Master's Degree in Sales and Marketing Management, Isabel I University
- Expert Master's Degree in Big Data by Hadoop Training
- Professional Master's Degree in Advanced Information Technologies from the University of Castilla La Mancha
- Member of: SMILE Research Group



Mr. Maldonado Pardo, Chema

- Graphic Design Specialist
- Graphic Designer at DocPath Document Solutions S.L.
- Founding Partner and Head of the Design and Advertising Department at D.C.M. Difusión Integral de Ideas, C.B
- Head of the Design and Digital Printing Department at Ofipaper, La Mancha S.L.
- Graphic Designer in Ático, Estudio Gráfico
- Graphic Designer and Craftsman Printer at Lozano Artes Gráficas
- Layout and Graphic Designer in Gráficas Lozano
- ETSI Telecommunications by the Polytechnic University of Madrid
- ETS Computer Systems ETSI by the University of Castilla-La Mancha

Professors

Ms. Parreño Rodríguez, Adelaida

- Technical Developer & Energy Communities Engineer at the University of Murcia
- Manager in Research & Innovation in European Projectsat the University of Murcia
- Technical Developer & Energy/Electrical Engineer & Researcher in PHOENIX Project and FLEXUM (ONENET) Project
- Content Creator in Global UC3M Challenge
- Ginés Huertas Martínez Award (2023)
- Professional Master's Degree in Renewable Energies from the Polytechnic University of Cartagena
- Degree in Electrical Engineering (bilingual) from Carlos III University of Madrid

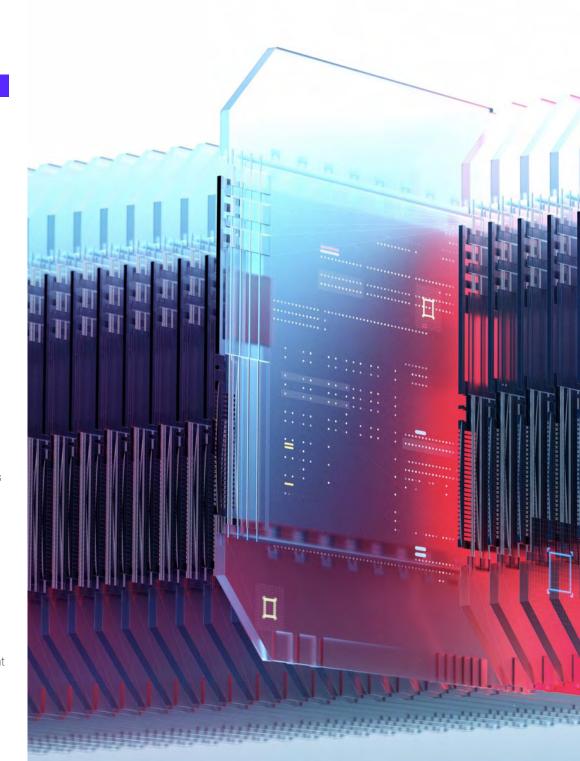


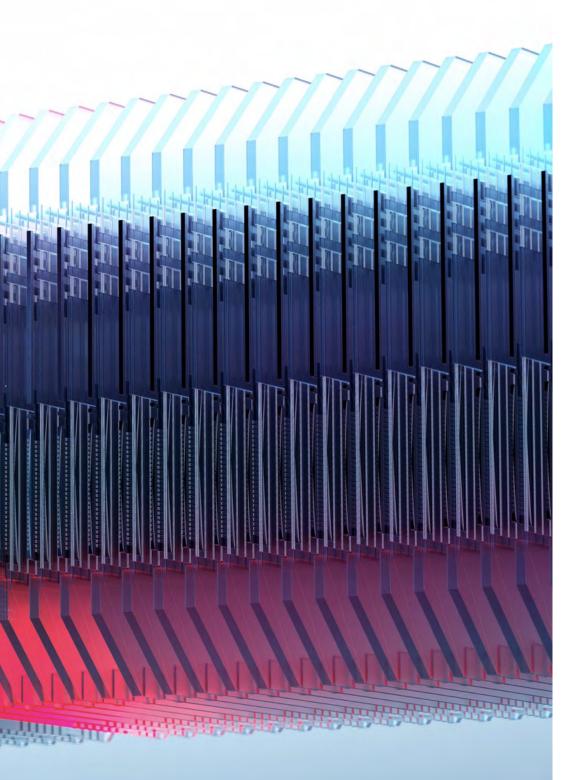


tech 18 | Structure and Content

Module 1. Technologies Applied to Design and Al

- 1.1. Integration of Virtual Assistants in Design Interfaces
 - 1.1.1. Role of Virtual Assistants in Interactive Design
 - 1.1.2. Development of Virtual Assistants Specialized in Design
 - 1.1.3. Natural Interaction with Virtual Assistants in Design Projects
 - 1.1.4. Implementation Challenges and Continuous Improvement
- 1.2. Automatic visual error detection and correction with Al
 - 1.2.1. Importance of Automatic Visual Error Detection and Correction
 - 1.2.2. Algorithms and Models for Visual Error Detection
 - 1.2.3. Automatic Correction Tools in Visual Design
 - 1.2.4. Challenges in Automatic Error Detection and Correction and Strategies to Overcome them
- 1.3. Al Tools for Usability Evaluation of Interface Designs
 - 1.3.1. Analysis of Interaction Data with Machine Learning Models
 - 1.3.2. Automated Report Generation and Recommendations
 - 1.3.3. Virtual User Simulations for Usability Testing
 - 1.3.4. Conversational Interface for User Feedback
- 1.4. Optimization of Editorial Workflows with Algorithms
 - 1.4.1. Importance of Optimizing Editorial Workflows
 - 1.4.2. Algorithms for Editorial Automation and Optimization
 - 1.4.3. Tools and Technologies for Editorial Optimization
 - 1.4.4. Challenges in Implementation and Continuous Improvement in Editorial Workflows
- 1.5. Realistic Simulations in Video Game Design
 - 1.5.1. Importance of Realistic Simulations in the Video Game Industry
 - 1.5.2. Modeling and Simulation of Realistic Elements in Video Games
 - 1.5.3. Technologies and Tools for Realistic Simulations in Videogames
 - 1.5.4. Technical and Creative Challenges in Realistic Video Game Simulations
- 1.6. Automatic Generation of Multimedia Content in Editorial Design
 - 1.6.1. Transformation with Automatic Multimedia Content Generation
 - 1.6.2. Algorithms and Models for Automatic Multimedia Content Generation
 - 1.6.3. Practical Applications in Publishing Projects
 - 1.6.4. Challenges and Future Trends in the Automatic Generation of Multimedia Content





Structure and Content | 19 tech

- 1.7. Adaptive and Predictive Design based on User Data
 - 1.7.1. Importance of Adaptive and Predictive Design in User Experience
 - 1.7.2. Collection and Analysis of User Data for Adaptive Design
 - 1.7.3. Algorithms for Adaptive and Predictive Design
 - 1.7.4. Integration of Adaptive Design in Platforms and Applications
- 1.8. Integration of Algorithms in the Improvement of Usability
 - 1.8.1. Segmentation and Behavioral Patterns
 - 1.8.2. Detection of Usability Problems
 - 1.8.3. Adaptability to Changes in User Preferences
 - 1.8.4. Automated a/b Testing and Analysis of Results
- 1.9. Continuous Analysis of User Experience for Iterative Improvements
 - 1.9.1. Importance of Continuous Feedback in Product and Service Evolution
 - 1.9.2. Tools and Metrics for Continuous Analysis
 - 1.9.3. Case Studies Demonstrating Substantial Improvements Achieved through this Approach
 - 1.9.4. Handling of Sensitive Data
- 1.10. Al-assisted Collaboration in Editorial Teams
 - 1.10.1. Transformation of Al-assisted Collaboration in Editorial Teams
 - 1.10.2. Tools and Platforms for Al-assisted Collaboration
 - 1.10.3. Development of Virtual Assistants Specialized in Editing
 - 1.10.4. Challenges in the Implementation and Future Applications of Al-assisted Collaboration



This academic program will equip you with the necessary skills to lead innovation in this convergence of creativity and technology"





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 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.





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.

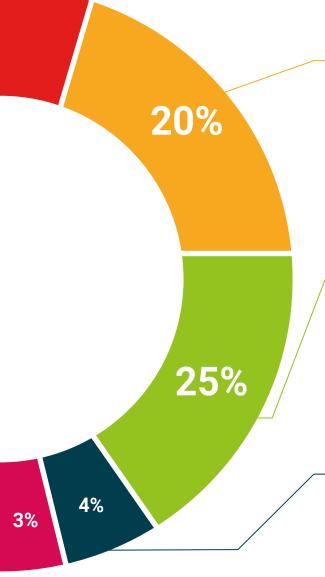


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

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 Applied Design Technologies and Artificial Intelligence** 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 diploma 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 Applied Design Technologies and Artificial Intelligence

Official No of Hours: 150 h.



^{*}Apostille Convention. In the event that the student wishes to have their paper diploma 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



Postgraduate Certificate Applied Design Technologies and Artificial Intelligence

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

