

Postgraduate Certificate Advanced Agile Methodologies



Postgraduate Certificate Advanced Agile Methodologies

- » Modality: Online
- » Duration: 6 weeks
- » Certificate: TECH Global University
- » Accreditation: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/information-technology/postgraduate-certificate/advanced-agile-methodologies

Index

01

Introduction to the Program

p. 4

02

Why Study at TECH?

p. 8

03

Syllabus

p. 12

04

Teaching Objectives

p. 16

05

Study Methodology

p. 20

06

Teaching Staff

p. 30

07

Certificate

p. 34

01

Introduction to the Program

In a world where adaptability defines business success, agile Methodologies have become the standard for efficient project management. In fact, more than 90% of organizations globally use these approaches to improve their competitiveness and delivery times. Leading companies have adopted frameworks such as Scrum, Kanban, and SAFe to optimize workflows and respond quickly to market changes. In this context, TECH presents a revolutionary university program focused on the use of Advanced Agile Methodologies. It is delivered through a convenient 100% online format.



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Learn how to manage an advanced Product Backlog and use specialized metrics to optimize projects with Scrum”

The implementation of agile frameworks has transformed project management in key sectors such as technology, healthcare, and finance. The speed of change and the need for efficient responses have made methodologies such as Scrum, Kanban, and SAFe essential tools for optimizing resources and improving productivity. Their ability to manage uncertainty and accelerate innovation has led more and more companies to adopt these approaches, consolidating them as a standard in modern management. Understanding and applying these principles has become crucial for those seeking to develop agile strategies and adapt to a constantly evolving competitive environment.

This university program offers a deep dive into advanced Agile Methodologies, providing specialized techniques for optimizing teamwork, efficient time management, and metrics-based decision-making. The syllabus will delve into the use of tools such as Jira, Trello, and Microsoft Teams. In this way, students will develop strategic skills to lead agile projects in complex environments, adapt to constant change, and foster a culture of continuous improvement.

Thanks to its 100% online format, this university program provides access to up-to-date content without the constraints of a fixed schedule or the need to travel. The learning methodology combines interactive resources, real-world case studies, and a practical approach that allows agile concepts to be applied immediately. In addition, the flexibility of the digital environment makes it easy to balance other responsibilities, ensuring an accessible experience tailored to current market needs.

This **Postgraduate Certificate in Advanced Agile Methodologies** 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 Technology
- ♦ 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 the self-assessment process can be carried out to improve learning
- ♦ Special emphasis on innovative methodologies in Technology
- ♦ 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



You will apply agile frameworks in complex, large-scale environments, adapting them to the needs of the organization"

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With the Relearning system, you won't have to invest a lot of hours studying, and you will focus on the most relevant concepts”

The teaching staff includes professionals from the field of technology, who bring their work experience to this program, as well as renowned specialists from leading companies 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 an immersive learning experience designed to prepare for real-life situations.

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

Optimize workflow with Kanban, managing WIP limits and improving team efficiency through proven agile strategies.

Explore agile scaling models such as SAFe and LESS to successfully coordinate multiple teams and improve organizational collaboration.



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.



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Study at the largest online university in the world and ensure your professional success. The future begins at TECH”

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

Forbes

The best online university in the world

The most complete
syllabus

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

↑
TOP
international faculty

⚙️
The most effective methodology

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

World's No.1
The World's largest online university

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



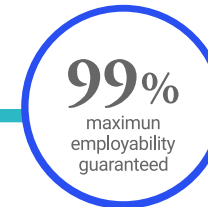
Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



03 Syllabus

This syllabus has been designed to offer a deep understanding of the most widely used agile frameworks, combining theory and practical application. Through a structured approach, it provides students with the most innovative tools to manage teams, minimize risks, and respond quickly to market changes, thereby ensuring a competitive advantage in any professional field.



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*You will foster an agile-oriented
organizational culture based on
Lean and DevOps principles”*

Module 1. Advanced Agile Methodologies for Seniors

- 1.1. Agile Methodologies
 - 1.1.1. Principles of the Agile Manifesto
 - 1.1.2. Comparison between Scrum, Kanban, and SAFe
 - 1.1.3. Success Stories in the Application of Agile Methodologies
- 1.2. Advanced Scrum as an Agile Methodology
 - 1.2.1. Detailed Roles and Responsibilities
 - 1.2.2. Advanced Product Backlog Management
 - 1.2.3. Metrics and Project Tracking in Scrum
- 1.3. Kanban for Development Teams
 - 1.3.1. Principles of Continuous Flow
 - 1.3.2. WIP (Work in Progress) Limits Management
 - 1.3.3. Workflow Optimization with Kanban
- 1.4. Scaling Agile
 - 1.4.1. SAFe (Scaled Agile Framework)
 - 1.4.2. Implementation of LESS (Large-scale Scrum)
 - 1.4.3. Coordination between Multiple Agile Teams
- 1.5. Agile Coaching and Leadership
 - 1.5.1. Key Skills of an Agile Coach
 - 1.5.2. Facilitating Effective Retrospectives
 - 1.5.3. Conflict Resolution in Agile Teams
- 1.6. Risk Management in Agile Projects
 - 1.6.1. Risk Identification and Analysis
 - 1.6.2. Risk Mitigation Strategies
 - 1.6.3. Rapid Adaptation to Unexpected Changes
- 1.7. Agile Tools for Remote Teams
 - 1.7.1. Using Jira and Trello for Agile Management
 - 1.7.2. Effective Communication with Slack and Microsoft Teams
 - 1.7.3. Techniques for Collaboration in Distributed Environments





- 1.8. Metrics in Agile Projects
 - 1.8.1. Burnup and Burndown Charts
 - 1.8.2. Measuring Team Velocity
 - 1.8.3. Key Indicators for Continuous Improvement
- 1.9. Case Studies in Agile Methodologies
 - 1.9.1. Analysis of Implementation in Real Companies
 - 1.9.2. Lessons Learned from Successful Projects
 - 1.9.3. Common Failures and How to Avoid Them
- 1.10. Practical Project in Agile Teams
 - 1.10.1. Planning a Project with Scrum and Kanban
 - 1.10.2. Project Execution and Monitoring
 - 1.10.3. Presentation of Results and Retrospective



Anticipate risks in Agile projects with effective management and adaptation strategies"

04

Teaching Objectives

This program aims to deepen the strategic application of Agile Methodologies, addressing their impact on project planning, execution, and control. Through a practical and adaptable approach, this syllabus provides the knowledge necessary to drive innovation, improve operational efficiency, and strengthen decision-making in dynamic environments. Graduates will gain advanced skills to manage complex projects with an iterative approach, foster interdisciplinary collaboration, and use key metrics to evaluate progress, ensuring continuous value delivery and rapid adaptation to market needs.

“

Use digital tools such as Jira to enhance collaboration in remote teams and streamline effective communication”



General Objectives

- ♦ Provide in-depth knowledge of advanced software architectures and their applicability in professional environments
- ♦ Provide a comprehensive overview of modern back-end development, covering architectures, tools, and best practices
- ♦ Develop efficient and scalable front-end applications with modern technologies
- ♦ Apply advanced data science and machine learning techniques
- ♦ Understand the fundamentals of cybersecurity and its importance in software development
- ♦ Master the fundamental principles of DevOps and its impact on software development
- ♦ Implement the principles of the agile manifesto in development environments
- ♦ Manage the differences and benefits of native and cross-platform mobile development
- ♦ Analyze the fundamental concepts of cloud computing and its impact on application development and operation





Specific Objectives

- ♦ Differentiate and select the most appropriate Agile Methodology according to the project context
- ♦ Effectively manage a product backlog and define key metrics in Scrum
- ♦ Optimize workflow in Kanban by managing WIP limits
- ♦ Coordinate multiple teams using agile scaling frameworks such as SAFe and LESS

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Analyze advanced metrics such as burnup and burndown charts to evaluate team performance in Agile projects”

05 Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



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TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

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TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

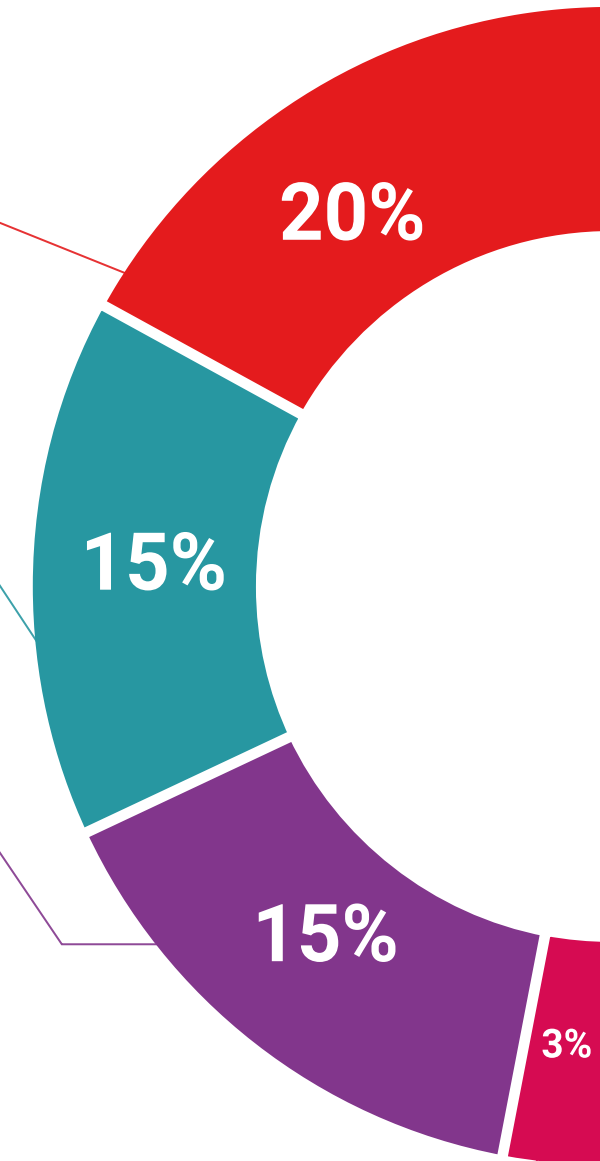
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

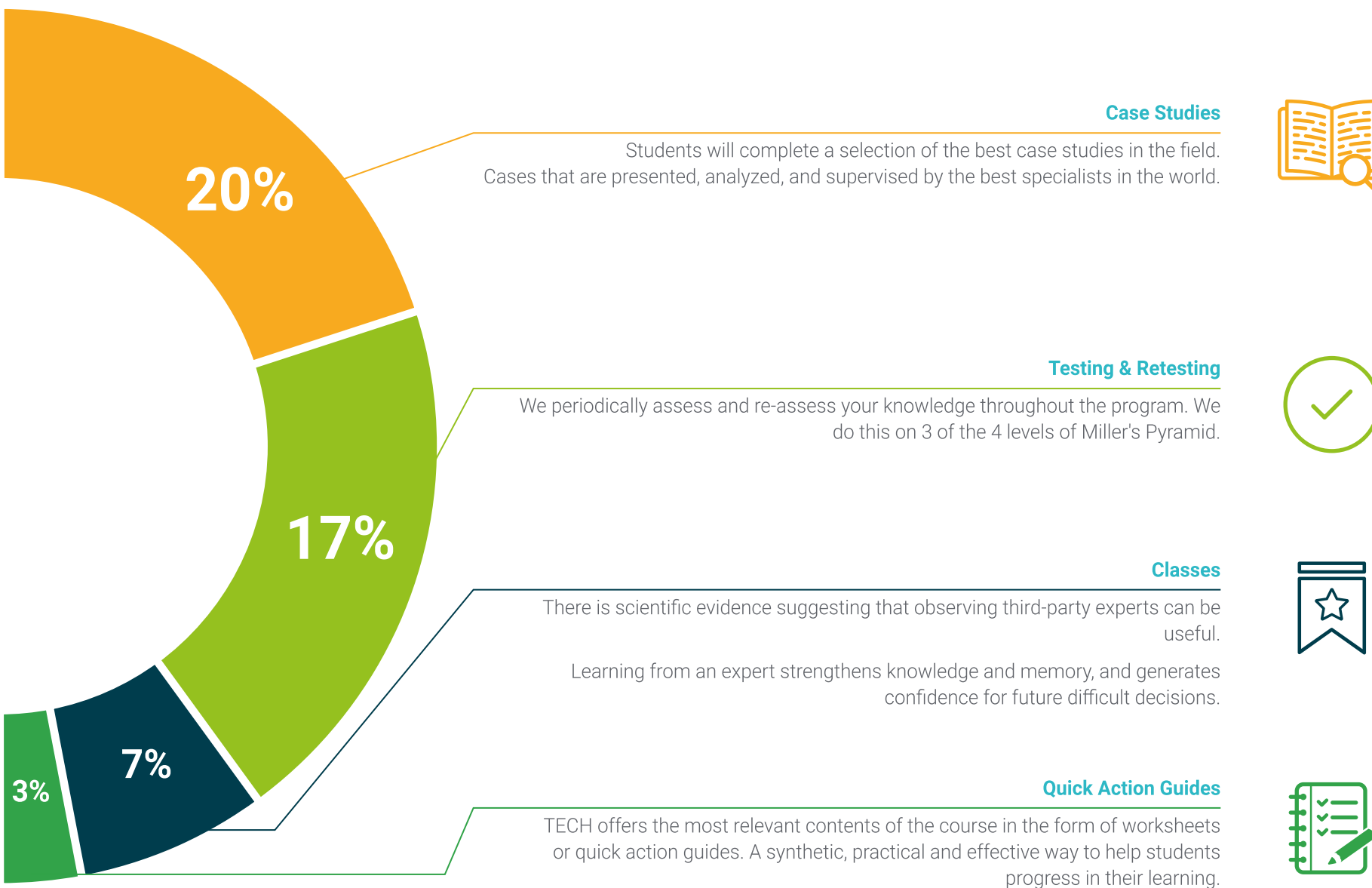
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.





06

Teaching Staff

The teaching staff for this program is made up of specialists with solid experience in applying Agile Methodologies in business and technology environments. Thanks to their practical experience, they offer a comprehensive vision that combines theory, real-life cases, and innovative strategies. In addition, their dynamic approach allows them to convey up-to-date knowledge on the latest trends and tools in the sector. Through a participatory methodology, they encourage practical learning and problem solving in real-world scenarios, ensuring a high level of preparation.



“

Learn from a teaching staff made up of experts in Agile Methodologies, with experience in implementing Scrum in high-level companies”

Management



Mr. Utrilla Utrilla, Rubén

- Technology Project Manager at Serquo
- Fullstack Developer at ESSP
- Junior Fullstack Developer at Sinis Technology S.L
- Junior Fullstack Developer at Cantoblanco Polytechnic School Campus
- Master's Degree in AI and Innovation by Founderz
- Degree in Computer Engineering from the Autonomous University of Madrid
- Google Cloud Developer course in Google Academic Program

Professors

Ms. Jiménez Monar, Angélica Liceth

- Software Developer at Serquo
- Technical Support Specialist at Tecnocom
- Degree in Computer Engineering from the Autonomous University of Madrid
- Higher Degree in Network Computer Systems Administration



07 Certificate

This Postgraduate Certificate in Advanced Agile Methodologies guarantees students, in addition to the most rigorous and up-to-date education, access to a diploma for the Postgraduate Certificate issued by TECH Global University.



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

This private qualification will allow you to obtain a diploma for the **Postgraduate Certificate in Advanced Agile Methodologies** endorsed by TECH Global University, the world's largest online university.

TECH Global University, is an official European University publicly recognized by the Government of Andorra ([official bulletin](#)). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

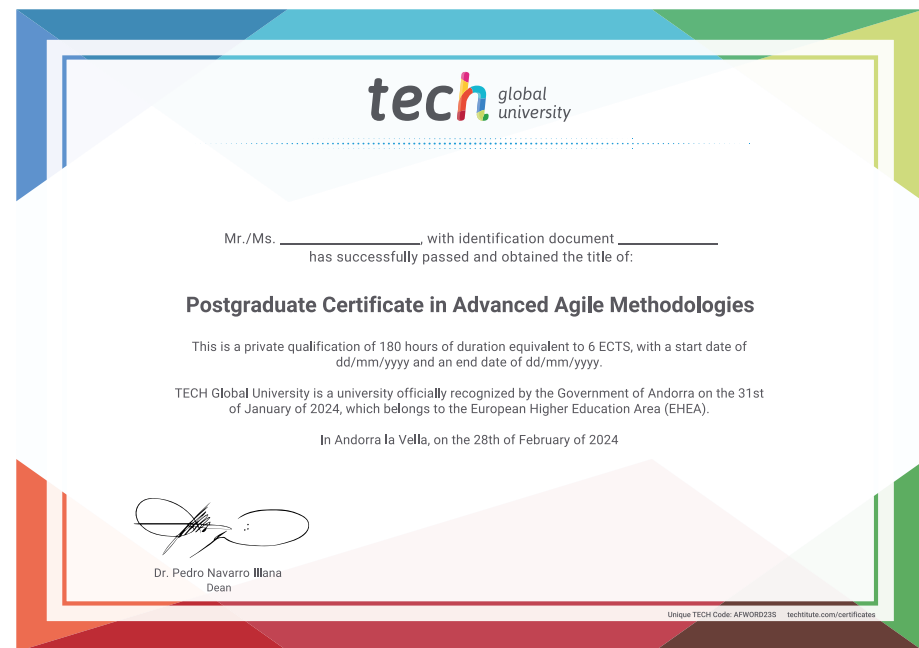
This **TECH Global University** private qualification, is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Postgraduate Certificate in Advanced Agile Methodologies**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate Advanced Agile Methodologies

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Postgraduate Certificate

Advanced Agile Methodologies

