

Postgraduate Certificate Entrepreneurship in Additive Manufacturing



Postgraduate Certificate Entrepreneurship in Additive Manufacturing

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

Website: www.techtitude.com/us/engineering/postgraduate-certificate/entrepreneurship-additive-manufacturing

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01

Introduction to the Program

Additive Manufacturing has revolutionized industrial production, enabling the creation of customized products, cost reduction, and greater sustainability. According to the United Nations, the 3D printing market continues to grow steadily, driven by innovation and diversification of applications in industries such as Healthcare. This advance has created opportunities for entrepreneurs seeking to develop new business models, optimize processes, and expand globally into emerging markets. In this context, TECH presents a revolutionary university program focused on Entrepreneurship in Additive Manufacturing. In addition, it is offered in a convenient, completely online format. In addition, it is delivered in a convenient and fully online modality.



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Thanks to this 100% online Postgraduate Certificate, you will create innovative projects based on Additive Manufacturing”

Additive Manufacturing has transformed the landscape of entrepreneurship, opening the door to new business models based on customization, cost optimization, and on-demand production. Its impact extends to industries such as Healthcare, Automotive, and Engineering, where innovation drives opportunities for those seeking to develop differentiated and scalable solutions. As demand for sustainable and efficient products grows, mastering business strategies in this field is key to creating and consolidating successful ventures.

That is why TECH has developed an innovative Postgraduate Certificate in Entrepreneurship in Additive Manufacturing. The syllabus will delve into emerging market trends and how to apply them to scale businesses in a highly competitive environment. As a result, students will develop a strategic vision of Industry 4.0 and acquire key tools to turn ideas into viable business projects. In addition, graduates will be highly trained to lead innovative initiatives based on additive technologies, both in established companies and in their own ventures.

Furthermore, thanks to its 100% online methodology, this university program is tailored to the needs of professionals seeking to specialize without time or location restrictions. Through an interactive platform, engineers will have access to up-to-date resources, case studies, and support from experts in Additive Manufacturing. In this sense, TECH uses its Relearning method to ensure natural learning. This way, all students need is an electronic device with an Internet connection to enter the Virtual Campus.

This **Postgraduate Certificate in Entrepreneurship in Additive Manufacturing** 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 Additive Manufacturing
- ♦ 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 Additive Manufacturing
- ♦ 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 analyze business opportunities in Additive Manufacturing and discover how to create customized products and offer innovative services in various industries”

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You will optimize production processes with advanced techniques that reduce costs, minimize waste, and improve operational efficiency in Additive Manufacturing”

The teaching staff includes professionals from the field of Additive Manufacturing, 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.

You will design business models based on 3D Printing services that will differentiate themselves and generate value in the global market.

TECH's Relearning system will allow you to learn the most complex concepts efficiently and immediately.



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 relies on an enormous faculty of more than 6,000 professors of the highest international renown.



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*Study at the world's largest online university
and guarantee your professional success.
The future starts 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".

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.

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.



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.

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 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.

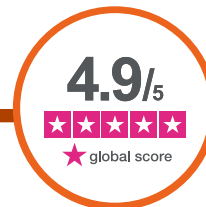
Leaders in employability

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

Additive Manufacturing has transformed industrial production, driving customization, cost reduction, and process optimization. In this context, understanding its applications and business strategies is essential to harness its potential. This syllabus comprehensively addresses the key aspects of entrepreneurship in 3D Printing, from project feasibility to product commercialization. In addition, it incorporates emerging trends and sustainability strategies, providing a complete overview of the market. Through a practical and up-to-date approach, it enables the development of innovative initiatives in a sector with significant growth and multiple commercial opportunities.





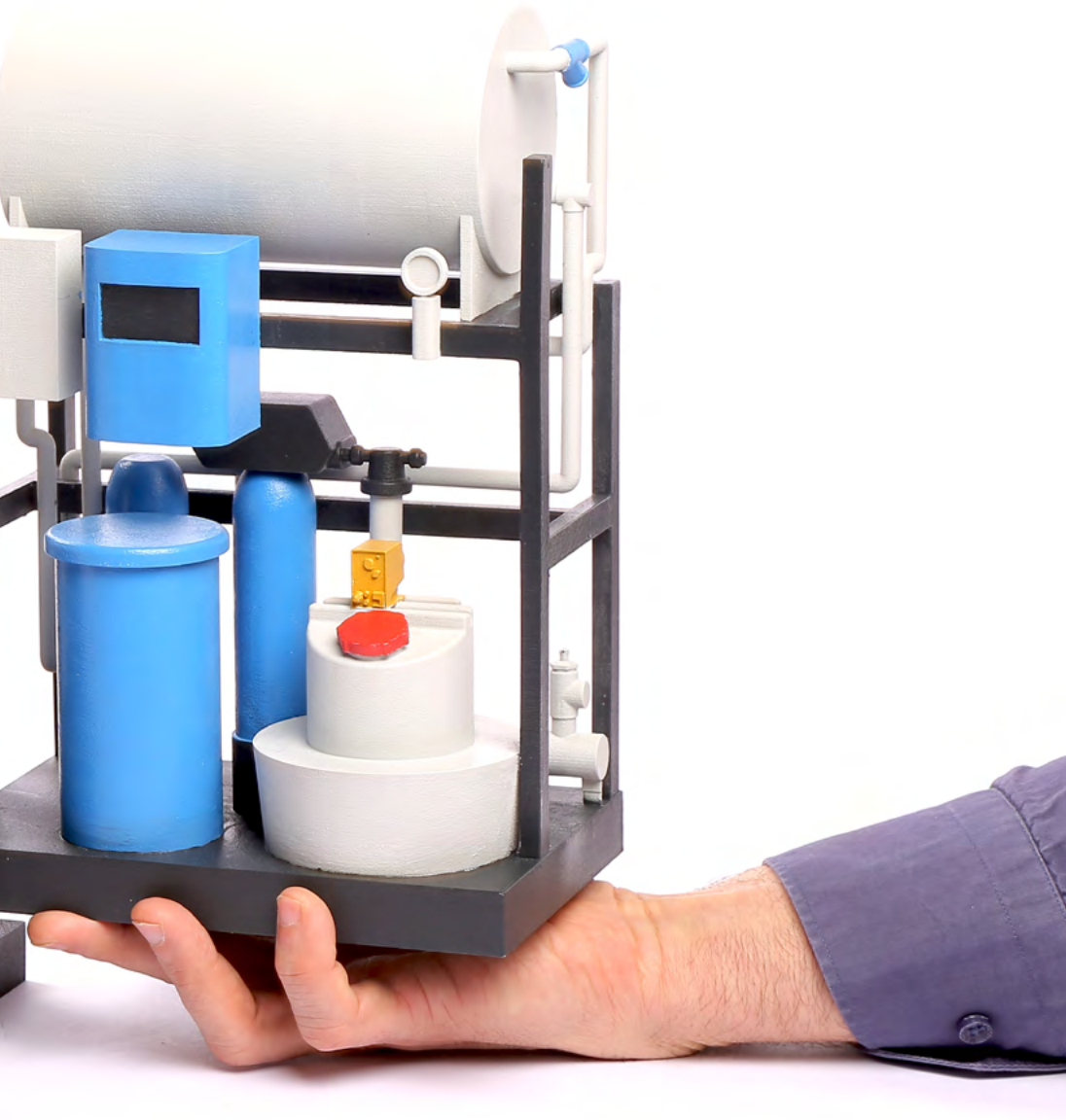
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You will delve into success stories of startups that have revolutionized Additive Manufacturing and apply their best practices to strengthen your own business”

Module 1. Entrepreneurship in Additive Manufacturing

- 1.1. Business Opportunities in Additive Manufacturing
 - 1.1.1. Creation of New Markets for Customized Products
 - 1.1.2. Provision of Small-Scale 3D Printing Services
 - 1.1.3. Development of Innovative Products through Additive Manufacturing
- 1.2. Feasibility Analysis of Projects with 3D Printing
 - 1.2.1. Assessment of Production and Material Costs
 - 1.2.2. Identification of Optimization Opportunities in Projects
 - 1.2.3. Methods for Calculating Return on Investment in Additive Projects
- 1.3. Business Models Based on 3D Printing Services
 - 1.3.1. Provision of Services to Businesses and Individuals
 - 1.3.2. Strategies for Scaling a 3D Printing Business
 - 1.3.3. Profitability of Offering Customized Printing on Demand
- 1.4. How to Assess Return on Investment (ROI)
 - 1.4.1. Methods for Calculating ROI in Additive Projects
 - 1.4.2. Key Factors in Assessing Profitability
 - 1.4.3. Optimizing Delivery Time to Improve ROI
- 1.5. Strategies for Marketing 3D-Printed Products
 - 1.5.1. Distribution Channels for 3D-Printed Products
 - 1.5.2. Digital Marketing Strategies Applied to 3D Printing
 - 1.5.3. Positioning Products in the Global Market
- 1.6. Success Stories of Entrepreneurship in Additive Manufacturing - Example FDM
 - 1.6.1. Examples of Companies That Have Grown with 3D Printing
 - 1.6.2. Startup Innovations in the Additive Manufacturing Industry
 - 1.6.3. Keys to Success in Creating Businesses Based on 3D Printing
- 1.7. Global Strategy for Protecting Ideas and Products
 - 1.7.1. Methods for Protecting Intellectual Property Without Relying on Local Laws
 - 1.7.2. Open Licenses and Their Impact on Business Growth
 - 1.7.3. Strategies for Competing Globally in Additive Markets





- 1.8. Sustainability and Additive Manufacturing
 - 1.8.1. Additive Manufacturing Applications in the Circular Economy
 - 1.8.2. Reducing the Environmental Impact of Additive Processes
 - 1.8.3. Use of Recycled and Recyclable Materials in 3D Printing
- 1.9. Cost Reduction and Process Optimization
 - 1.9.1. Methods for Optimizing Material Use and Production Times
 - 1.9.2. Techniques for Reducing Waste and Operating Costs
 - 1.9.3. Process Automation in the Additive Manufacturing Production Chain
- 1.10. The Future of Entrepreneurship in 3D Printing
 - 1.10.1. Innovations That Are Shaping the Future of Entrepreneurship in Additive Manufacturing
 - 1.10.2. New Business Opportunities in Emerging Industries
 - 1.10.3. Impact of Additive Manufacturing on the Global Economy

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You will develop entrepreneurial skills to lead cutting-edge initiatives based on Additive Manufacturing”

04

Teaching Objectives

This university program aims to provide in-depth knowledge about Entrepreneurship in Additive Manufacturing. Through a strategic approach, students will be able to analyze project feasibility, assess costs, and design profitable business models. In addition, they will learn marketing techniques and positioning strategies in global markets, ensuring a competitive vision. With an emphasis on innovation and sustainability, it encourages the creation of initiatives based on 3D printing, promoting the development of efficient solutions adapted to current industry trends.





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*You will understand key aspects of
management, financing, and marketing
in technology ventures”*



General Objectives

- Understand the concepts of how Additive Manufacturing works
- Delve into the technologies specifically for the materials used
- Understand how each technology works and its application, whether by the function of the part or object or by its performance
- Use 3D surface modeling software
- Delve into the different types of 3D printers, understanding their operating principles
- Learn about topological design and optimization of parts for 3D printing
- Use the most advanced post-processing techniques to optimize 3D printing
- Visualize products for specific sectors such as automotive, aerospace, and architecture
- Encourage the identification of business opportunities in the field of Additive Manufacturing
- Develop project management skills, from conceptualization and design to manufacturing and post-processing of parts





Specific Objectives

- ♦ Learn how to develop business plans, market analysis, and specific financing strategies for 3D printing projects
- ♦ Acquire tools to assess and mitigate risks, ensuring the viability and sustainability of ventures in this industry

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You will integrate sustainability into your entrepreneurship through the use of recycled materials, efficient processes, and a responsible approach to production”

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.



“

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.

“*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.

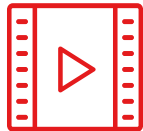
The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

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

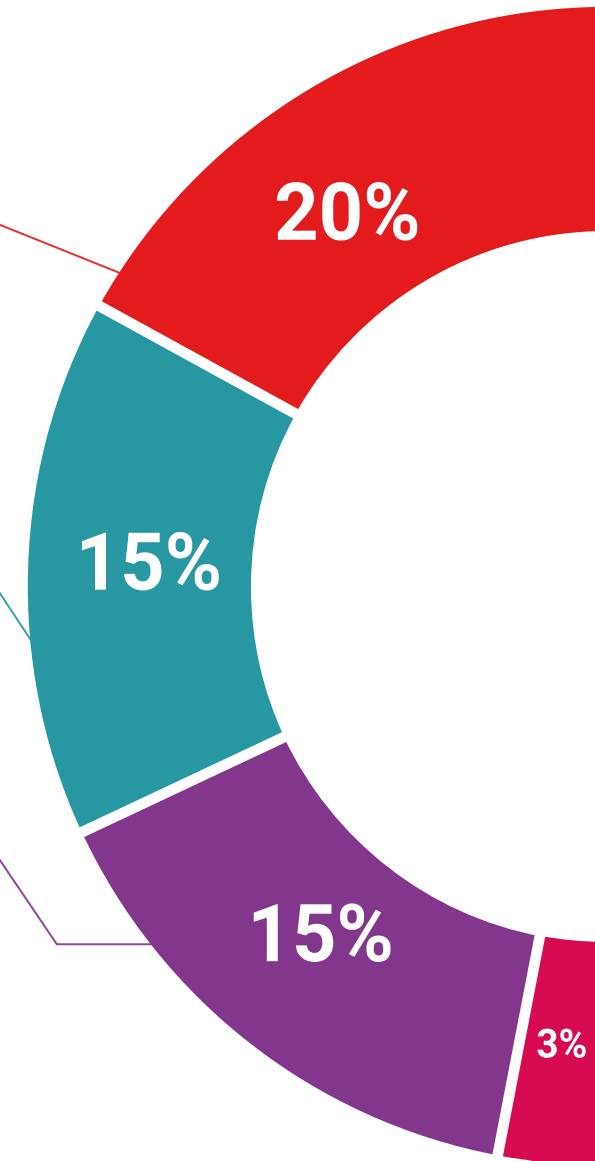
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

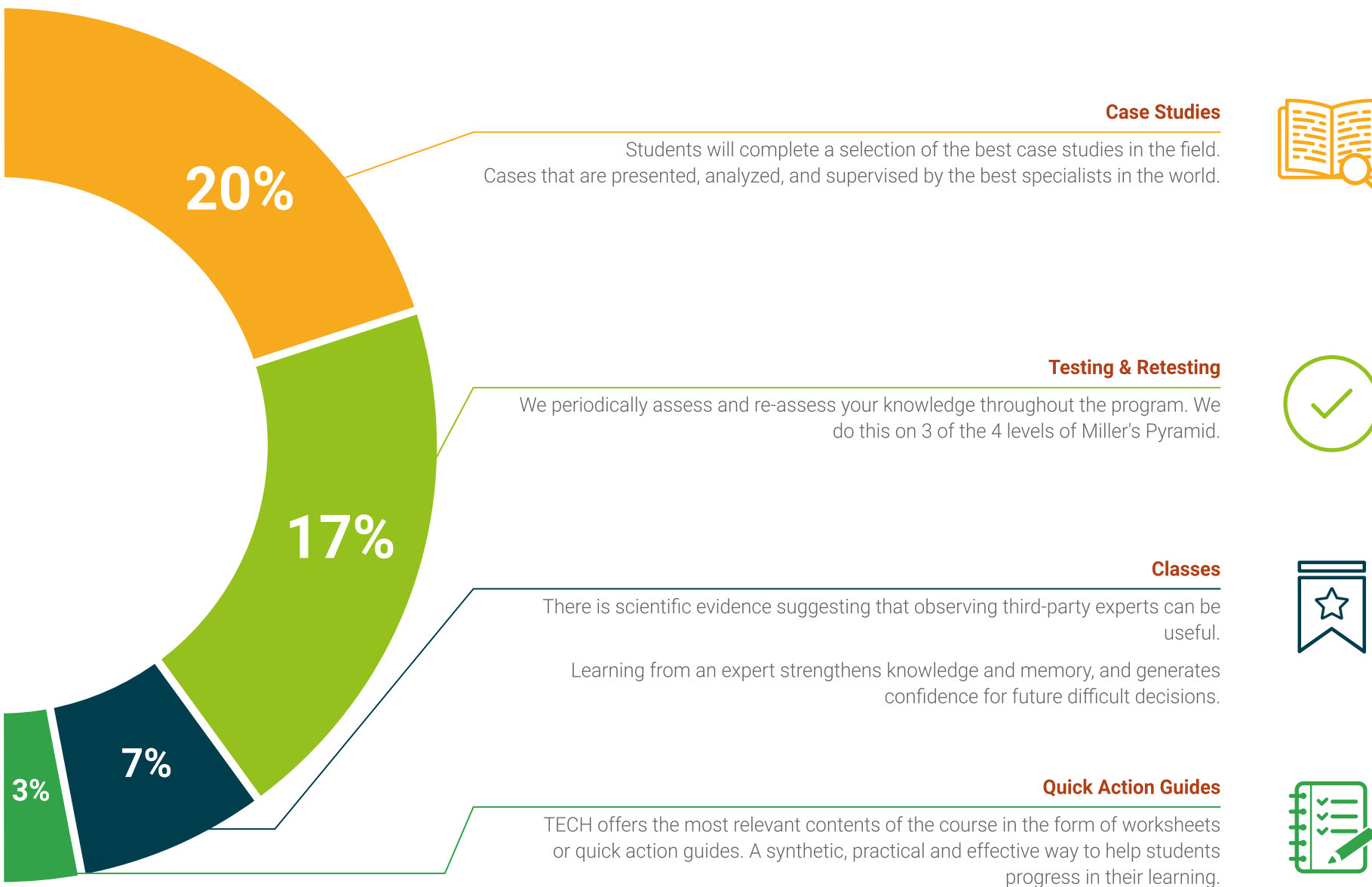
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



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 experts with solid experience in Additive Manufacturing and Technological Entrepreneurship. Their experience in developing innovative business models, together with their knowledge of process optimization and marketing strategies, guarantees high-quality teaching. In addition, their links with industry enable them to provide an up-to-date view of trends in the sector. Through a practical, real-world approach, they provide the tools necessary to face market challenges and take advantage of the opportunities offered by 3D printing in the business world.



“

Learn from a faculty made up of experts in Additive Manufacturing, entrepreneurship, and innovation, with experience in business development and the application of 3D technologies”

Management



Mr. Parera Buxeres, Antoni

- CEO and Creative Director at Innou
- Project Manager and Industrial Designer at Play
- Master's Degree in Project Management and Efficient Project Management from the Polytechnic University of Catalonia
- Bachelor of Arts with a specialization in Design from the University of Southampton



07

Certificate

The Postgraduate Certificate in Entrepreneurship in Additive Manufacturing 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 Entrepreneurship in Additive Manufacturing** 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 Entrepreneurship in Additive Manufacturing**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 ECTS**





Postgraduate Certificate Entrepreneurship in Additive Manufacturing

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Postgraduate Certificate Entrepreneurship in Additive Manufacturing

