

# Postgraduate Certificate

## Medical Research Project Generation





## Postgraduate Certificate

### Medical Research Project Generation

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

Website: [www.techtute.com/pk/nutrition/postgraduate-certificate/medical-research-project-generation](http://www.techtute.com/pk/nutrition/postgraduate-certificate/medical-research-project-generation)

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# 01

# Introduction

Medical research projects arise from the need to provide a solution to a problem or to intervene deeply in a superficial concept in order to understand it in depth. It is for this reason that the scientific sector is in search of highly qualified professionals for the development of research that will bring benefits to the medical-nutritional sector. To this extent, professionals must update their information and be aware of recent unknowns arising from medical processes. For this reason, TECH has created a degree designed for nutritionists interested in creating a Medical Research project from scratch. This is a 100% online program, enhanced with audiovisual material, graphic pieces and complementary readings that will provide the professional with unpublished information regarding the generation of projects, including the definition of objectives, establishment of scientific equipment and ethical aspects to be considered.



A man with dark, wavy hair, wearing a white lab coat, is shown in profile, looking out a window. The background is a bright, blurred view of green foliage. The image is partially obscured by a dark purple diagonal overlay in the top right corner and a white diagonal overlay in the bottom right corner.

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*A program tailored to your needs, with which you will be able to identify the problems of the medical-nutritional sector and delve deeper to provide a scientific solution”*

The first step to generate a research project is to start from a need or problem that needs a prompt solution, to this extent, the nutritional sector offers an endless number of cases that even with the most recent scientific advances have not had an answer. On the other hand, it should be considered that for the creation of a project it is necessary to define, structure and identify the subject to deal with to generate solidity and security at the time of covering the multiple facets of the project.

To this extent, the role of the professional is to provide the correct basis for the generation of the project and, once it is defined, to start working towards a viable solution. In this way, the project manager can be involved in the entire project execution, knowing the participants and their individual contributions.

This program is a solution to all those needs that arise in the medical and nutritional field, which is why the professional must know the most recent updates and concepts that allow them to generate and develop projects in favor of nutritional advances. To this end, the nutritionist who accesses this Postgraduate Certificate will delve into topics such as the definition of general and specific objectives, types of samples and variables to be measured, articulation of hypotheses and general structuring of the research, among many other issues of interest in the area.

It is a 100% online degree that has first-hand material, created by specialists and with the purpose of encouraging problem solving and scientific advances. The student will have total freedom to adapt all the didactic material to their own pace, being able to download the syllabus and multimedia resources from any device with internet connection.

This **Postgraduate Certificate in Medical Research Project Generation** contains the most complete and up-to-date scientific program on the market. The most important features include:

- Development of case studies presented by experts in Medical Research
- 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
- The availability of access to content from any fixed or portable device with an Internet connection



*Identify large-scale nutritional problems and, from a research project, provide the necessary solutions together with your team”*

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*A complete program that will provide you with information regarding the generation of research projects for the nutritional advances of the future”*

*A degree that adjusts to your schedule, allowing you to combine your work and personal obligations with the course load.*

*TECH, in its commitment to academic excellence, seeks to provide you with the best syllabus for you to know in depth the due investigative process of a Medical Research Project.*

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

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

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



# 02

# Objectives

TECH's main objective for this Postgraduate Certificate is to provide updated information regarding the formulation of research projects for the development of medical and nutritional cases. To this extent, TECH offers the professional the necessary tools to start research projects in order to treat the largest number of unanswered cases and generate significant advances in the field in general.







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*Improve your project generation skills and develop with your team the development of medical research”*



## General Objectives

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- ◆ Understand the appropriate approach to a question or problem to be solved
- ◆ Asses the state of the art of the problem through literature search
- ◆ Assess the feasibility of the potential project
- ◆ Study the drafting of a project in accordance with the different calls for proposals
- ◆ Examine the search for funding
- ◆ Master the necessary data analysis tools
- ◆ Writing scientific articles (papers) according to the target magazines
- ◆ Generate posters relevant to the topics addressed
- ◆ Know the tools for dissemination to the non-specialized public
- ◆ Delve into data protection
- ◆ Understand the transfer of knowledge generated to industry or the clinic
- ◆ Examine the current use of artificial intelligence and massive data analysis
- ◆ Study examples of successful projects





## Specific Objectives

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- Learn how to assess the feasibility of the potential project
- Know in depth the essential milestones for writing a research project
- Delve into the criteria for exclusion/inclusion in projects
- Learn how to set up the specific team for each project

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*Do you want to learn how to set up specific teams according to the research project and be able to structure it effectively? With this program you will reach all your goals in less than 6 weeks”*

# 03

# Course Management

This program will be directed by a first class faculty, selected under a rigorous process of excellence and academic experience. For this reason, the professional will find in this degree a conglomerate of knowledge designed by specialists who are still active. In addition to belonging to important positions within medicine and nutrition, teachers are praised for their human warmth, which allows them to engage in conversation to resolve doubts and concerns that arise throughout the development of the program.





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*Update your knowledge and be part of great scientific discoveries that allow you to solve really difficult problems in the medical sector”*

## Management



### **Dr. López-Collazo, Eduardo**

- ♦ Deputy Scientific Director at the Healthcare Research Institute of the La Paz University Hospital
- ♦ Head of the Department of Immune Response and Infectious Diseases at IdiPAZ
- ♦ Head of the Department of Immune Response, Tumors and Immunology at IdiPAZ
- ♦ President of the IdiPAZ Research Commission
- ♦ Sponsor of the External Scientific Committee of the Murcian Institute of Health Research
- ♦ Member of the Scientific Commission of FIDE
- ♦ Editor of the international scientific journal Mediators of Inflammation
- ♦ Editor of the international scientific journal Frontiers of Immunology
- ♦ Coordinator of IdiPAZ Platforms
- ♦ Coordinator of Health Research Funds in the areas of Cancer, Infectious Diseases and HIV
- ♦ PhD in Nuclear Physics, University of La Habana
- ♦ Doctorate in Pharmacy from the Complutense University of Madrid



## Professors

### Dr. Avendaño Ortiz, José

- ◆ Researcher Sara Borrell Biomedical Research Foundation of the Ramon and Cajal University Hospital (FIBioHRC/IRyCIS)
- ◆ Researcher Foundation for Biomedical Research of La Paz University Hospital (FIBHULP/ IdiPAZ)
- ◆ Researcher HM Hospitals Foundation (FIHM)
- ◆ Graduate in Biomedical Sciences from the University of Lleida
- ◆ Master in Pharmacological Research, Autonomous University of Madrid
- ◆ PhD in Pharmacology and Physiology from the Autonomous University of Madrid

# 04

# Structure and Content

The syllabus of this Postgraduate Certificate has been designed by TECH together with its teaching staff, offering the highest quality in each topic to be developed. On the other hand, the syllabus will be nourished with audiovisual materials, graphic pieces and complementary readings that show the real procedures for the generation of research projects. That is why this degree will have a high academic demand which will enhance the professional's skills.



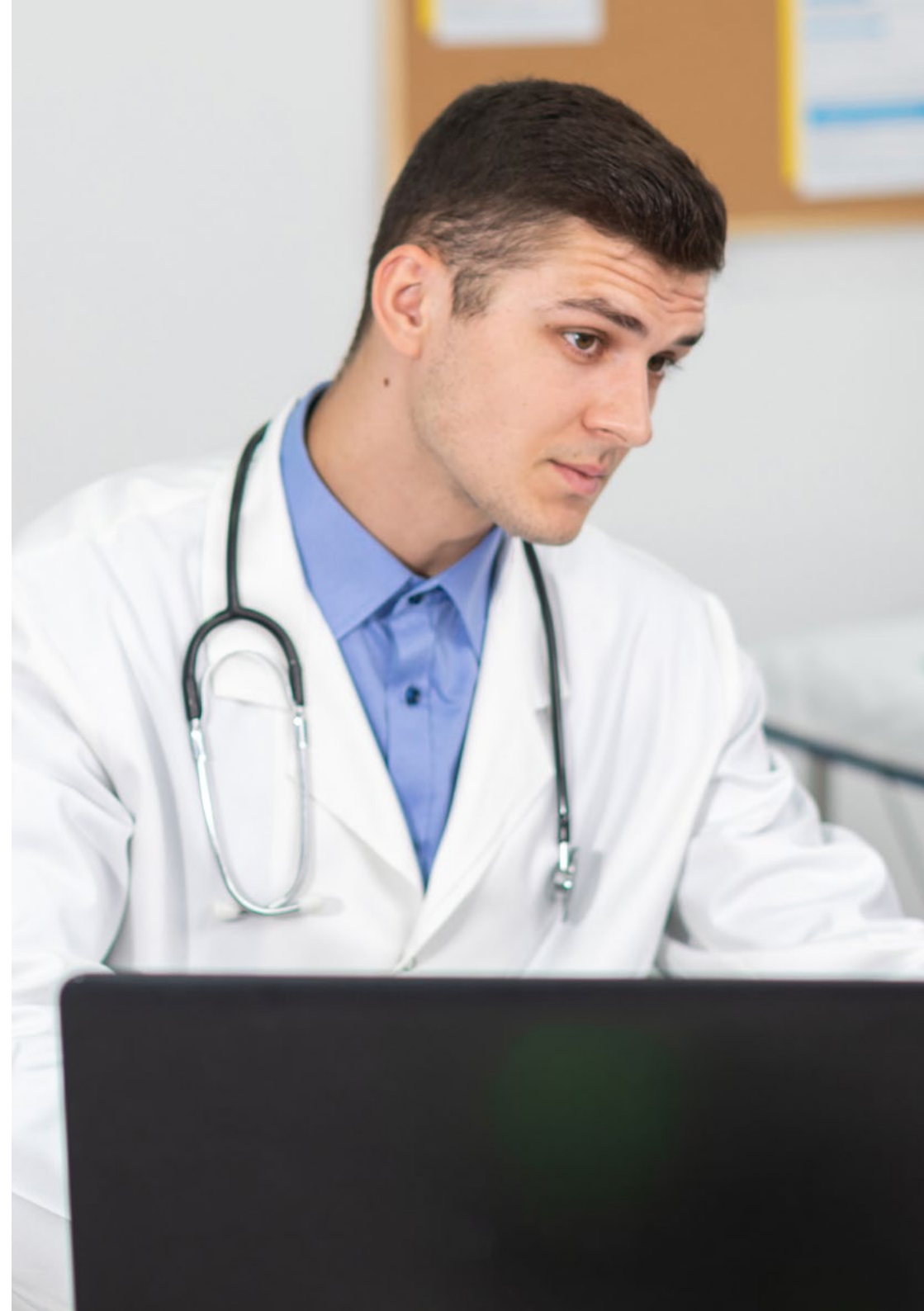


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*You will have access to the virtual classroom 24 hours a day and will be able to download all the content of the program in order to go deeper into the topics that are most difficult for you”*

## Module 1. Generation of Research Projects

- 1.1. General Structure of a Project
- 1.2. Presentation of Background and Preliminary Data
- 1.3. Definition of the Hypothesis
- 1.4. Definition of General and Specific Objectives
- 1.5. Definition of the Type of Sample, Number and Variables to be Measured
- 1.6. Establishment of the Scientific Methodology
- 1.7. Exclusion/Inclusion Criteria in Projects with Human Samples
- 1.8. Establishment of the Specific Team: Balance and Expertise
- 1.9. Ethical Aspects and Expectations: an Important Element that We Forget
- 1.10. Budget Generation: a fine Tuning between the Needs and the Reality of the Call





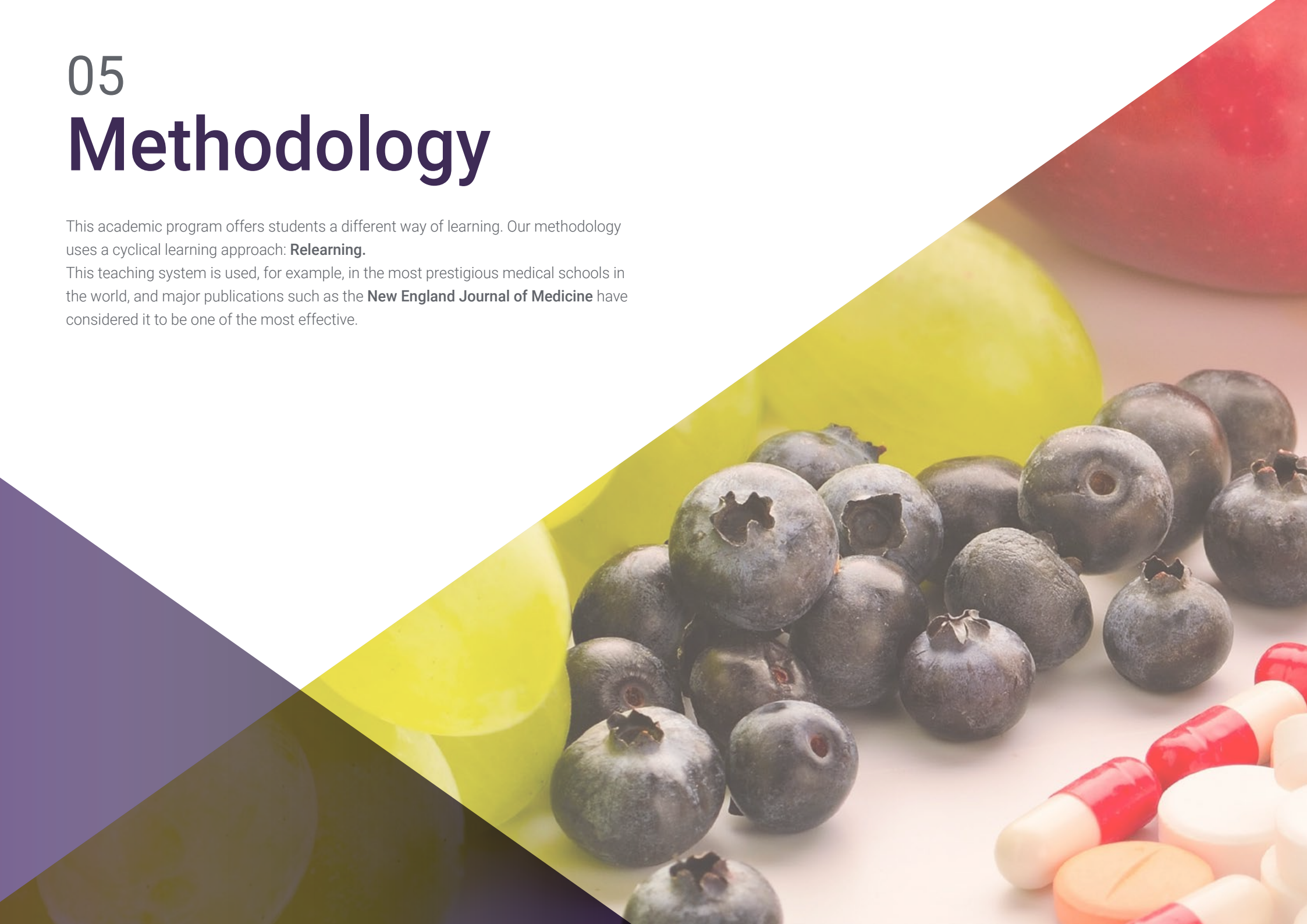
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*A program designed by experts specifically for professionals like you, who want to keep up with the demands of the nutritional field with a comprehensive update”*

# 05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





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*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## At TECH we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will face multiple simulated clinical cases, based on real patients, in which they will have to do research, establish hypotheses, and ultimately resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method. Specialists learn better, faster, and more sustainably over time.

*With TECH, nutritionists can experience a way of learning that is shaking the foundations of traditional universities around the world.*



According to Dr. Gérvas, the clinical case is the annotated presentation of a patient, or group of patients, which becomes a "case", an example or model that illustrates some peculiar clinical component, either because of its teaching power or because of its uniqueness or rarity. It is essential that the case is based on current professional life, trying to recreate the real conditions of professional nutritional practice.

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*Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method”*

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

1. Nutritionists who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity through exercises to evaluate real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the nutritionist to better integrate knowledge into clinical practice.
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.



## Relearning Methodology

At TECH we enhance the case method with the best 100% online teaching methodology available: Relearning.

This university is the first in the world to combine the study of clinical cases with a 100% online learning system based on repetition, combining a minimum of 8 different elements in each lesson, a real revolution with respect to the mere study and analysis of cases.

*The nutritionist will learn through real cases and by solving complex situations in simulated learning environments. These simulations are developed using state-of-the-art software to facilitate immersive learning.*





At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology, more than 45,000 nutritionists have been trained with unprecedented success in all clinical specialties regardless of the surgical load. 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.*

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.

The overall score obtained by TECH's learning system is 8.01, according to the highest international standards.



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.



### Nutrition Techniques and Procedures on Video

TECH brings students closer to the latest techniques, the latest educational advances and to the forefront of current nutritional counselling techniques and procedures. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many times as you like.



### 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".



### 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.





#### Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



#### 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.



#### Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help students progress in their learning.



# 06 Certificate

The Postgraduate Certificate in Medical Research Project Generation guarantees, in addition to the most rigorous and updated training, access to a Postgraduate Certificate issued by TECH Technological University.



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

This **Postgraduate Certificate in Medical Research Project Generation** contains the most complete and up-to-date scientific 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 Medical Research Project Generation**

Official N° of Hours: **150 h.**



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

future

health confidence people

education information tutors

guarantee accreditation teaching

institutions technology learning

community commitment

personalized service innovation

knowledge present

development language

virtual classroom

**tech** technological  
university

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Medical Research

Project Generation

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