

# Postgraduate Diploma

## Health System. Clinical Medicine and Research



## Postgraduate Diploma Health System. Clinical Medicine and Research

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Accreditation: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-health-system-clinical-medicine-research](http://www.techtute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-health-system-clinical-medicine-research)

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# 01

# Introduction

The broad possibilities offered by technology in the healthcare field are reflected in molecular nanotechnology (MNT). This scientific breakthrough enables the mutation of complex structures with specific atomic specifications, thanks to mechanosynthesis. Knowledge of biological and pathological behaviors is essential for diagnosing and predicting diseases. The professional who joins or is in the healthcare market must know the new intervention tools and which healthcare models are the most effective. For this reason, TECH Global University focuses on the benefits of technology applied to medicine so that graduates in Nursing master scientific research, public communication and the role of project manager, among other issues. All this, through a 100% online program that adapts to the specialists and their practical orientation in the current healthcare paradigm.



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*A 100% online program, with which you will delve into health research and the benefits of technology in the improvement of health processes”*

Emerging advances in ICTs have brought a global benefit to healthcare. Thanks to the incorporation of technology, healthcare services have become individualized and personalized processes. An example of this is mechanosynthesis, which aims to combat infectious diseases. At present, these types of conditions are the most common, and COVID has specified the application of clinical intervention techniques, but also of scientific research and, above all, of public communication to transmit the results of research at a global level.

In fact, the demand for healthcare professionals who know how to adapt to the 4.0 environment from their own profession is currently very high. TECH Global University has identified this request from clinical centers and therefore, has developed a complete and rigorous program in which graduates in Nursing, will be able to understand the procedures when using bibliographic resources, the management of health centers or the importance of working on health ethics in an environment in which professionals will influence the welfare of patients. This program aims to update the skills of health specialists so that they know how to interpret the bases of clinical trials and can put into practice the methodology of scientific research in their clinical practice.

This Postgraduate Diploma has the collaboration of teachers who are experts in Health Sciences and who are working on projects that apply e-Health technologies. The students will be guided by them through a direct communication channel through which they will be able to resolve all questions about the subject. In this way, the specialists will obtain a complete and rigorous syllabus without having to travel or preset schedules, 100% online. This is a unique opportunity for health specialists to be at the height of the digital context that surrounds them and become much more competent professionals, once they have completed the Postgraduate Diploma.

This **Postgraduate Diploma in Health System. Clinical Medicine and Research** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in clinical research
- ♦ The graphic, schematic and practical contents with which it is designed provide clinical 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



*Join this Postgraduate Diploma now and become a competitive professional directly involved in the management of health centers and their production"*

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*Deepen your knowledge in scientific research and transmit diagnoses with communicative keys that are adapted to the situation of your patients”*

The program's teaching staff includes professionals from the industry who contribute their work experience to this 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts in the field of educational coaching with extensive experience.

*Don't have Internet access 24 hours a day? Download the TECH reference guide and have a syllabus on your device that will guide you as a project manager.*

*In just 6 months, you will be able to master the Lean Management process and apply the tools to simplify work in the healthcare area.*



# 02 Objectives

The present program in Health System. Clinical Medicine and Research has as its main objective to expand and update the knowledge of graduates in Nursing, so that they can develop their health work applying the latest tools in molecular medicine and health system management. In this way, students will be able to delve into the intricacies of Information and Communication Technologies (ICT) and apply them so that they can optimize the service they provide as professionals. To achieve this, TECH Global University offers students the knowledge of team and project management tools used by project managers in their healthcare function, as well as the most successful healthcare models and health research. Thanks to the dynamism through which these exercises are taught, the specialist will obtain a qualification with great dynamism and quality, which will motivate them to get the most out of it.





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*Haven't you mastered e-Health issues yet? Today's healthcare market requires professionals who are up to speed with technological tools. Become one of them with TECH"*



## General Objectives

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- ◆ Develop key concepts of medicine that serve as a vehicle to understand clinical medicine
- ◆ Determine the major diseases affecting the human body classified by apparatus or systems, structuring each module into a clear outline of pathophysiology, diagnosis, and treatment
- ◆ Determine how to obtain metrics and tools for healthcare management
- ◆ Understand the basics of basic and translational scientific methodology
- ◆ Examine the ethical and best practice principles governing the different types of research in health sciences
- ◆ Identify and generate the means of funding, assessing and disseminating scientific research
- ◆ Identify the real clinical applications of the various techniques
- ◆ Develop the key concepts of computational science and theory
- ◆ Determine the applications of computation and its implication in bioinformatics
- ◆ Provide the necessary resources to practically apply all the concepts in the modules
- ◆ Develop the fundamental concepts of databases
- ◆ Determine the importance of medical databases
- ◆ Delve into the most important techniques in research
- ◆ Identify the opportunities offered by the IoT in the field of eHealth
- ◆ Provide specialized knowledge of the technologies and methodologies used in the design, development and assessment of telemedicine systems
- ◆ Determine the different types and applications of telemedicine
- ◆ Study the most common ethical aspects and regulatory frameworks of telemedicine
- ◆ Analyze the use of medical devices
- ◆ Develop the key concepts of entrepreneurship and innovation in e-Health
- ◆ Determine what a business model is and the types that exist
- ◆ Collect e-Health success stories and mistakes to avoid
- ◆ Apply the knowledge acquired to an original business idea



*Thanks to this Postgraduate Diploma you will be able to delve into the intricacies of Big Data and understand how this tool benefits health development at an international level"*



## Specific Objectives

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### Module 1. Molecular Medicine and Pathology Diagnosis

- ◆ Understand the diseases of the circulatory and respiratory systems
- ◆ Determine the general pathology of the digestive and urinary systems, the general pathology of the endocrine and metabolic systems and the general pathology of the nervous system
- ◆ Generate specialized knowledge on diseases affecting the blood and locomotor system diseases

### Module 2. Health System. Management and Administration in Health Centers

- ◆ Determine what a health system is
- ◆ Analyze the different healthcare models in Europe
- ◆ Examine how the healthcare market functions
- ◆ Develop key knowledge of hospital design and architecture
- ◆ Generate specialized knowledge of health measures
- ◆ Delve into resource allocation methods
- ◆ Compile productivity management methods
- ◆ Establish the role played by Project Managers

### Module 3. Research in Health Sciences

- ◆ Determine the need for scientific research
- ◆ Interpret scientific methodology
- ◆ Specify the need for types of research in health sciences, each in their context
- ◆ Establish the principles of evidence-based medicine
- ◆ Examine the needs to interpret scientific results
- ◆ Develop and interpret the basics of clinical trials
- ◆ Examine the methodology used to disseminate scientific research results and the ethical and legislative principles that govern it

# 03

# Course Management

In its line of seeking excellence and opting for the most rigorous academic knowledge for its students, TECH has resorted to an expert team in Health Sciences to teach and develop the contents of this Postgraduate Diploma. Thanks to their collaboration, students will not only have at their disposal a comprehensive syllabus on clinical medicine and research, but will also have the professional experience of the teachers in their own field of clinical practice. This is a teaching team with knowledge in biomedicine, radiology, vascular surgery and 3D printing that will increase the theoretical and practical instruction of the students and will serve as an example for them in practice through case simulations. Additionally, the student will have a direct communication channel through which they will be able to resolve any questions about the subject.



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*Lean on professionals who have participated in important projects in the biomedical discipline, so that you can acquire all the knowledge and they can serve as an example in your professional development”*

## Management



### Ms. Sirera Pérez, Ángela

- Biomedical Engineer expert in Nuclear Medicine and Exoskeleton Design
- Designer of specific parts for 3D printing at Technadi
- Technician in the Nuclear Medicine Department of the Clinical University of Navarra
- Degree in Biomedical Engineering from the University of Navarra
- MBA and Leadership in Healthcare and Medical Technology Companies



## Professors

### Mr. Varas Pardo, Pablo

- ◆ Biomedical Engineer and Expert Data Scientist
- ◆ Data Scientist at the Institute of Mathematical Sciences (ICMAT)
- ◆ Biomedical Engineer at the University La Paz Hospital
- ◆ Graduate in Biomedical Engineering from the Polytechnic University of Madrid
- ◆ Internship at University 12 de Octubre Hospital
- ◆ Master's Degree in Technological Innovation in Health, Polytechnic University of Madrid and Higher Technical Institute of Lisbon
- ◆ Master's Degree in Biomedical Engineering from the Polytechnic University of Madrid

### Dr. Pacheco Gutiérrez, Victor Alexander

- ◆ Surgeon Specialist in Orthopedics and Sports Medicine at the Dr. Sulaiman Al Habib Hospital in Dubai
- ◆ Medical advisor for professional baseball, boxing and cycling teams
- ◆ Specialty in Orthopedics and Traumatology
- ◆ Degree in Medicine
- ◆ Sports Medicine Fellowship in Sportsmed
- ◆ Member of the American Academy of Orthopedic Surgeons

### Mr. Beceiro Cillero, Iñaki

- ◆ Intelligence, Strategy and Privacy Analysis Specialist
- ◆ Biomedical Researcher
- ◆ Collaborating researcher in AMBIOSOL Group
- ◆ Master in Biomedical Research
- ◆ Degree in Biology from the University of Santiago de Compostela

# 04

## Structure and Content

The content of this Postgraduate Diploma in Health System. Clinical Medicine and Research has been proposed by the professionals who teach the Postgraduate Diploma to certify optimal learning of the subject. In this way, the graduate in Nursing will obtain the most rigorous knowledge about the health system and its management, as well as molecular medicine and the diagnosis of pathologies. All this will be possible thanks to the Relearning methodology that TECH Global University incorporates in all its programs. This pedagogical system ensures that the specialist is not forced to invest long hours in memorizing the contents, as they will be transmitted in a constant, gradual and easy way. Additionally, TECH has an extensive collection of didactic materials in various formats: video summaries, interactive activities, simulated scenarios, among others.





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*Be a part of a digital program that, precisely, seeks to specialize you in e-Health, adapting to your availability”*

## Module 1. Molecular Medicine and Pathology Diagnosis

- 1.1. Molecular Medicine
  - 1.1.1. Cellular and Molecular Biology. Cell Injury and Cell Death. Aging
  - 1.1.2. Diseases Caused by Microorganisms and Host Defense
  - 1.1.3. Autoimmune Diseases
  - 1.1.4. Toxicological Diseases
  - 1.1.5. Hypoxia Diseases
  - 1.1.6. Diseases Related to the Environment
  - 1.1.7. Genetic Diseases and Epigenetics
  - 1.1.8. Oncological Diseases
- 1.2. Circulatory System
  - 1.2.1. Anatomy and Function
  - 1.2.2. Myocardial Diseases and Heart Failure
  - 1.2.3. Cardiac Rhythm Diseases
  - 1.2.4. Valvular and Pericardial Diseases
  - 1.2.5. Atherosclerosis, Arteriosclerosis and Arterial Hypertension
  - 1.2.6. Peripheral Arterial and Venous Disease
  - 1.2.7. Lymphatic Disease (Greatly Overlooked)
- 1.3. Respiratory System Diseases
  - 1.3.1. Anatomy and Function
  - 1.3.2. Acute and Chronic Obstructive Pulmonary Diseases
  - 1.3.3. Pleural and Mediastinal Diseases
  - 1.3.4. Infectious Diseases of the Pulmonary Parenchyma and Bronchi
  - 1.3.5. Pulmonary Circulation Diseases
- 1.4. Digestive System Diseases
  - 1.4.1. Anatomy and Function
  - 1.4.2. Digestive System, Nutrition, and Hydroelectrolyte Exchange
  - 1.4.3. Gastroesophageal Diseases
  - 1.4.4. Gastrointestinal Infectious Diseases
  - 1.4.5. Liver and Biliary Tract Diseases
  - 1.4.6. Pancreatic Diseases
  - 1.4.7. Colon Diseases
- 1.5. Renal and Urinary Tract Diseases
  - 1.5.1. Anatomy and Function
  - 1.5.2. Renal Insufficiency (Prerenal, Renal, and Postrenal): How They Are Triggered
  - 1.5.3. Obstructive Urinary Tract Diseases
  - 1.5.4. Sphincteric Insufficiency in the Urinary Tract
  - 1.5.5. Nephrotic Syndrome and Nephritic Syndrome
- 1.6. Endocrine System Diseases
  - 1.6.1. Anatomy and Function
  - 1.6.2. The Menstrual Cycle and Associated Conditions
  - 1.6.3. Thyroid Disease
  - 1.6.4. Adrenal Insufficiency
  - 1.6.5. Disorders of Sexual Differentiation
  - 1.6.6. Hypothalamic- Pituitary Axis, Calcium Metabolism, Vitamin D and Its Effects on Growth and the Skeletal System
- 1.7. Metabolism and Nutrition
  - 1.7.1. Essential and Non-Essential Nutrients: Clarifying Definitions
  - 1.7.2. Carbohydrate Metabolism and Alterations
  - 1.7.3. Protein Metabolism and Alterations
  - 1.7.4. Lipids Metabolism and Alterations
  - 1.7.5. Iron Metabolism and Alterations
  - 1.7.6. Disorders of Acid-Base Balance
  - 1.7.7. Sodium and Potassium Metabolism and Alterations
  - 1.7.8. Nutritional Diseases (Hypercaloric and Hypocaloric)
- 1.8. Hematologic Diseases
  - 1.8.1. Anatomy and Function
  - 1.8.2. Red Blood Cell Disorders
  - 1.8.3. Diseases of White Blood Cells, Lymph Nodes and Spleen
  - 1.8.4. Hemostasis and Bleeding Diseases

- 1.9. Musculoskeletal System Diseases
  - 1.9.1. Anatomy and Function
  - 1.9.2. Joints: Types and Function
  - 1.9.3. Bone Regeneration
  - 1.9.4. Normal and Pathological Skeletal System Development
  - 1.9.5. Deformities of the Upper and Lower Limbs
  - 1.9.6. Joint Pathology, Cartilage, and Synovial Fluid Analysis
  - 1.9.7. Joint Diseases with Immunologic Origin
- 1.10. Nervous System Diseases
  - 1.10.1. Anatomy and Function
  - 1.10.2. Central and Peripheral Nervous System Development
  - 1.10.3. Development of the Spine and Components
  - 1.10.4. Cerebellum and Proprioceptive Diseases
  - 1.10.5. Brain Disorders (Central Nervous System)
  - 1.10.6. Spinal Cord and Cerebrospinal Fluid Diseases
  - 1.10.7. Stenotic Diseases of the Peripheral Nervous System
  - 1.10.8. Infectious Diseases of the Central Nervous System
  - 1.10.9. Cerebrovascular Disease (Stenotic and Hemorrhagic)

## Module 2. Health System. Management and Administration of Health Centers

- 2.1. Healthcare Systems
  - 2.1.1. Healthcare Systems
  - 2.1.2. Healthcare Systems according to the WHO
  - 2.1.3. Healthcare Context
- 2.2. Healthcare Models I. Bismark Model vs. Beveridge Model
  - 2.2.1. Bismark Model
  - 2.2.2. Beveridge Model
  - 2.2.3. Bismark Model Beveridge Model
- 2.3. Healthcare Models II. Semashko, Private and Mixed Models
  - 2.3.1. Semashko Model
  - 2.3.2. Private Model
  - 2.3.3. Mixed Models
- 2.4. The Health Market
  - 2.4.1. The Health Market
  - 2.4.2. Health Market Regulation and Limitations
  - 2.4.3. Payment Methods for Doctors and Hospitals
  - 2.4.4. Clinical Engineers
- 2.5. Hospitals. Typology
  - 2.5.1. Hospital Architecture
  - 2.5.2. Types of Hospitals
  - 2.5.3. Hospital Organization
- 2.6. Health Metrics
  - 2.6.1. Mortality
  - 2.6.2. Morbidity
  - 2.6.3. Healthy Life Years
- 2.7. Health Resource Allocation Methods
  - 2.7.1. Lineal Programming
  - 2.7.2. Maximization Models
  - 2.7.3. Minimization Models
- 2.8. Measuring Healthcare Productivity
  - 2.8.1. Measuring Healthcare Productivity
  - 2.8.2. Productivity Ratios
  - 2.8.3. Input Adjustment
  - 2.8.4. Output Adjustment
- 2.9. Healthcare Process Improvement
  - 2.9.1. Lean Management Process
  - 2.9.2. Work Simplification Tools
  - 2.9.3. Troubleshooting Tools
- 2.10. Healthcare Project Management
  - 2.10.1. The Role Played by Project Managers
  - 2.10.2. Team and Project Management Tools
  - 2.10.3. Schedule and Time Management

### Module 3. Research in Health Sciences

- 3.1. Scientific Research I. The Scientific Method
  - 3.1.1. Scientific Research
  - 3.1.2. Research in Health Sciences
  - 3.1.3. The Scientific Method
- 3.2. Scientific Research II. Typology
  - 3.2.1. Basic Research
  - 3.2.2. Clinical Research
  - 3.2.3. Translational Research
- 3.3. Evidence-Based Medicine
  - 3.3.1. Evidence-Based Medicine
  - 3.3.2. Principles of Evidence-Based Medicine
  - 3.3.3. Methodology of Evidence-Based Medicine
- 3.4. Ethics and Legislation in Scientific Research. Declaration of Helsinki
  - 3.4.1. The Ethics Committee
  - 3.4.2. Declaration of Helsinki
  - 3.4.3. Ethics in Health Sciences
- 3.5. Scientific Research Results
  - 3.5.1. Methods
  - 3.5.2. Rigor and Statistical Power
  - 3.5.3. Scientific Results Validity
- 3.6. Public Communication
  - 3.6.1. Scientific Societies
  - 3.6.2. Scientific Conferences
  - 3.6.3. Communication Structures
- 3.7. Funding in Scientific Research
  - 3.7.1. Structure in Scientific Projects
  - 3.7.2. Public Funding
  - 3.7.3. Private and Industrial Funding
- 3.8. Scientific Resources in Literature Searching. Health Sciences Databases I
  - 3.8.1. PubMed-Medline
  - 3.8.2. Embase
  - 3.8.3. WOS and JCR
  - 3.8.4. Scopus and Scimago
  - 3.8.5. Micromedex
  - 3.8.6. MEDES
  - 3.8.7. IBECs
  - 3.8.8. LILACS
  - 3.8.9. BORRAR BORRAR
  - 3.8.10. BDNF
  - 3.7.11. Cuidatge
  - 3.8.12. CINAHL
  - 3.8.13. Cuiden Plus
  - 3.8.14. Enfispo
  - 3.8.15. NCBI (OMIM, TOXNET) and NIH (National Cancer Institute) Databases
- 3.9. Scientific Resources in Literature Searching. Health Sciences Databases II
  - 3.9.1. NARIC - Rehabdata
  - 3.9.2. PEDro
  - 3.9.3. ASABE: Technical Library
  - 3.9.4. CAB Abstracts
  - 3.9.5. BORRAR
  - 3.9.6. Center for Reviews and Dissemination (CRD) Databases:
  - 3.9.7. Biomed Central BMC
  - 3.9.8. ClinicalTrials.gov
  - 3.9.9. Clinical Trials Register
  - 3.9.10. DOAJ- Directory of Open Access Journals
  - 3.9.11. PROSPERO (International Prospective Register of Systematic Reviews)
  - 3.9.12. TRIP
  - 3.9.13. LILACS
  - 3.9.14. NIH. Medical Library
  - 3.9.15. Medline Plus
  - 3.9.16. OPS

- 3.10. Scientific Resources in Literature Searching III. Search Engines and Platforms
  - 3.10.1. Search Engines and Multisearch Engines
    - 3.10.1.1. Findr
    - 3.10.1.2. Dimensions
    - 3.10.1.3. Google Scholar
    - 3.10.1.4. Microsoft Academic
  - 3.10.2. WHO International Clinical Trials Registration Platform (ICTRP)
    - 3.10.2.1. PubMed Central PMC
    - 3.10.2.2. Open Science Collector (RECOLECTA)
    - 3.10.2.3. Zenodo
  - 3.10.3. Doctoral Thesis Search Engines
    - 3.10.3.1. DART-Europe
    - 3.10.3.2. Dialnet
    - 3.10.3.3. OATD (Open Access Theses and Dissertations)
    - 3.10.3.4. TDR (Doctoral Theses Online)
    - 3.10.3.5. TESEO
  - 3.10.4. Bibliography Managers
    - 3.10.4.1. Endnote Online
    - 3.10.4.2. Mendeley
    - 3.10.4.3. Zotero
    - 3.10.4.4. Citeulike
    - 3.10.4.5. Refworks
  - 3.10.5. Digital Social Networks for Researchers
    - 3.10.5.1. Scielo
    - 3.10.5.2. Dialnet
    - 3.10.5.3. Free Medical Journals
    - 3.10.5.4. DOAJ
    - 3.10.5.5. Open Science Directory
    - 3.10.5.6. Redalyc
    - 3.10.5.7. Academia.edu
    - 3.10.5.8. Mendeley
    - 3.10.5.9. ResearchGate
  - 3.10.6. Social Web 2.0 Resources
    - 3.10.6.1. Delicious
    - 3.10.6.2. SlideShare
    - 3.10.6.3. YouTube
    - 3.10.6.4. Twitter
    - 3.10.6.5. Health Science Blogs
    - 3.10.6.6. Facebook
    - 3.10.6.7. Evernote
    - 3.10.6.8. Dropbox
    - 3.10.6.9. Google Drive
  - 3.10.7. Scientific Journal Publishers and Aggregators Portals
    - 3.10.7.1. Science Direct
    - 3.10.7.2. Ovid
    - 3.10.7.3. Springer
    - 3.10.7.4. Wiley
    - 3.10.7.5. Proquest
    - 3.10.7.6. Ebsco
    - 3.10.7.7. BioMed Central



*A program designed for specialists who watch over scientific advancement by applying technology for the betterment of patients, someone like you"*

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

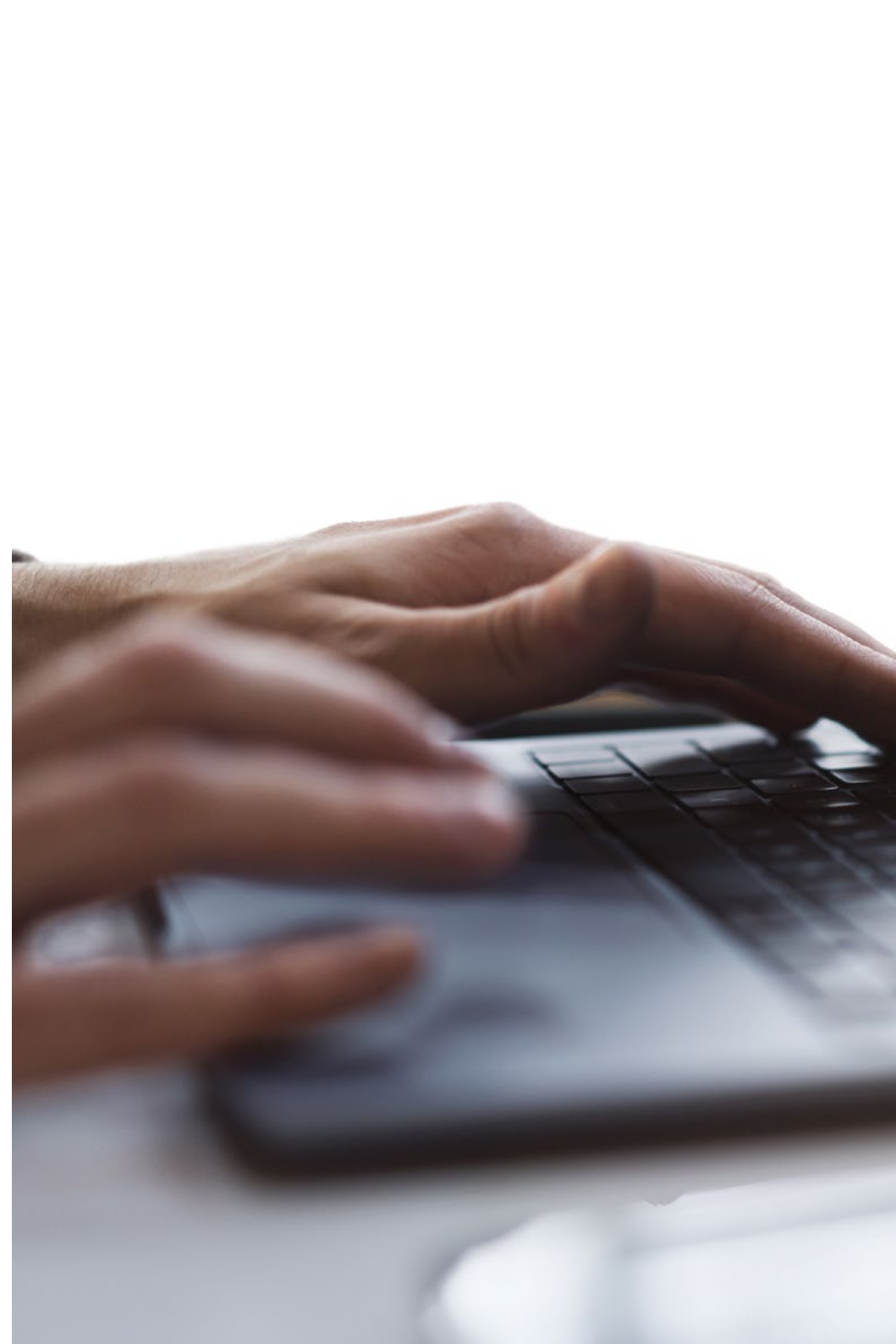
In TECH's study methodology, the student is the main protagonist.

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.

“

*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 quality of teaching, quality of materials, course structure and objectives is excellent. Not surprisingly, the institution became the best rated university by its students on the Trustpilot review platform, 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

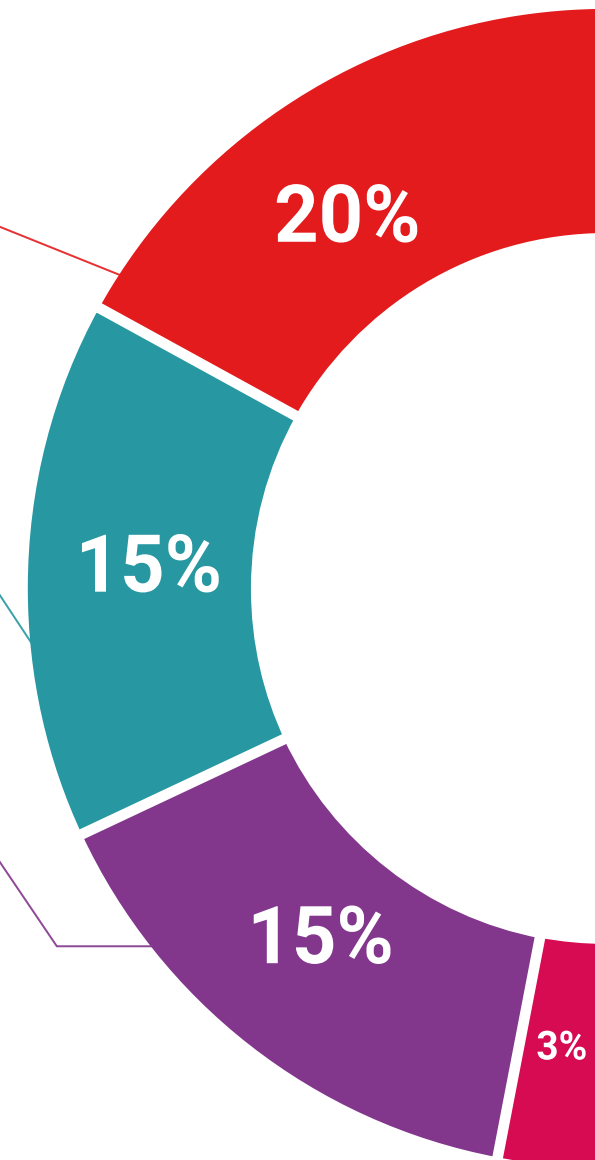
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

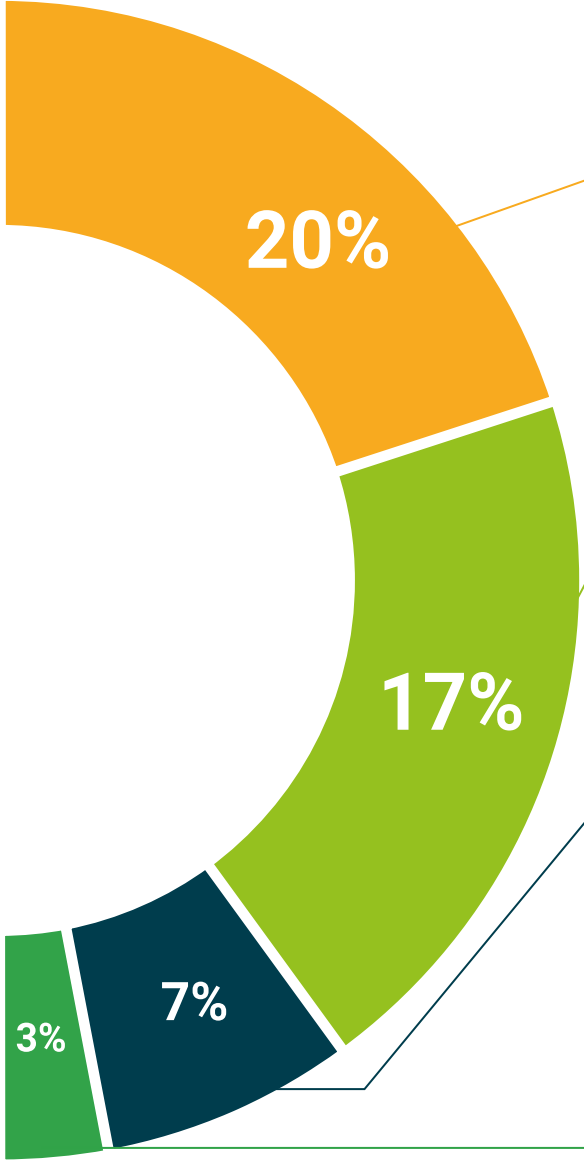
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



### Additional Reading

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





**Case Studies**

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



**Testing & Retesting**

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



**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 for 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

This Postgraduate Diploma in Health System. Clinical Medicine and Research guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma 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 **Postgraduate Diploma in Health System. Clinical Medicine and Research** 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 Diploma in Health System. Clinical Medicine and Research**

Modality: **online**

Duration: **6 months**

Accreditation: **18 ECTS**



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



**Postgraduate Diploma**  
Health System. Clinical  
Medicine and Research

- » Modality: **online**
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- » Accreditation: **18 ECTS**
- » Schedule: **at your own pace**
- » Exams: **online**

# Postgraduate Diploma

Health System. Clinical Medicine  
and Research

