



Postgraduate Certificate

New Technologies in Emergency Services

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Teaching Hours: 150

Website: www.techtitute.com/medicine/postgraduate-certificate/new-technologies-emergency-services

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tech 06 | Introduction

This Postgraduate Certificate in New Technologies in Emergency Services was created with the aim of updating the knowledge of emergency physicians based on the uses of mechanisms such as artificial intelligence and computer applications in their daily professional practice.

Along the same lines, the program shall present the latest advances related to scenarios where the application of new technologies can be highly useful to solve various problems that may arise.

In the same way, the program will also analyze the importance of this type of technology as a diagnostic tool for emergency physicians. The use of computer applications and artificial intelligence will be reviewed, conducting an in-depth analysis into the contribution they provide to emergency medicine according to each case.

To complement the course even more, physicians will delve into the importance of using new technologies and digital environments as a means of communicating more effectively on issues related to the health status of patients in either hospital or out-of-hospital emergency departments. Thus, emergency physicians will be able to optimize the use of resources, improve communication and provide a much higher quality service.

Likewise, this Postgraduate Certificate stands out for being a 100% online program, which does not require commutes, but rather, only a computer or mobile device with an Internet connection.

This **Postgraduate Certificate in New Technologies in Emergency Services** contains the most complete and up-to-date scientific program on the market. Its most notable features are:

- Numerous practical cases presented in form of *In Focus* videos and clinical videos made by experts in Emergency Medicine
- 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 activity presentations on procedures and techniques
- An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course
- Action protocols and clinical practice guidelines which cover the most important latest developments in this specialist area
- All of this will be complemented by theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- Its special emphasis on evidence-based medicine and research methodologies in dealing with patients requiring emergency services
- Content that is accessible from any fixed or portable device with an Internet connection



Our immense commitment to your education is materialized by offering the best program available"



This Postgraduate Certificate will undoubtedly be a turning point in your professional career. Enroll now to see for yourself"

The program's teaching staff includes medical professionals, who bring their experience to this program, as well as renowned specialists from leading scientific communities 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 specialization programmed to learn in real situations.

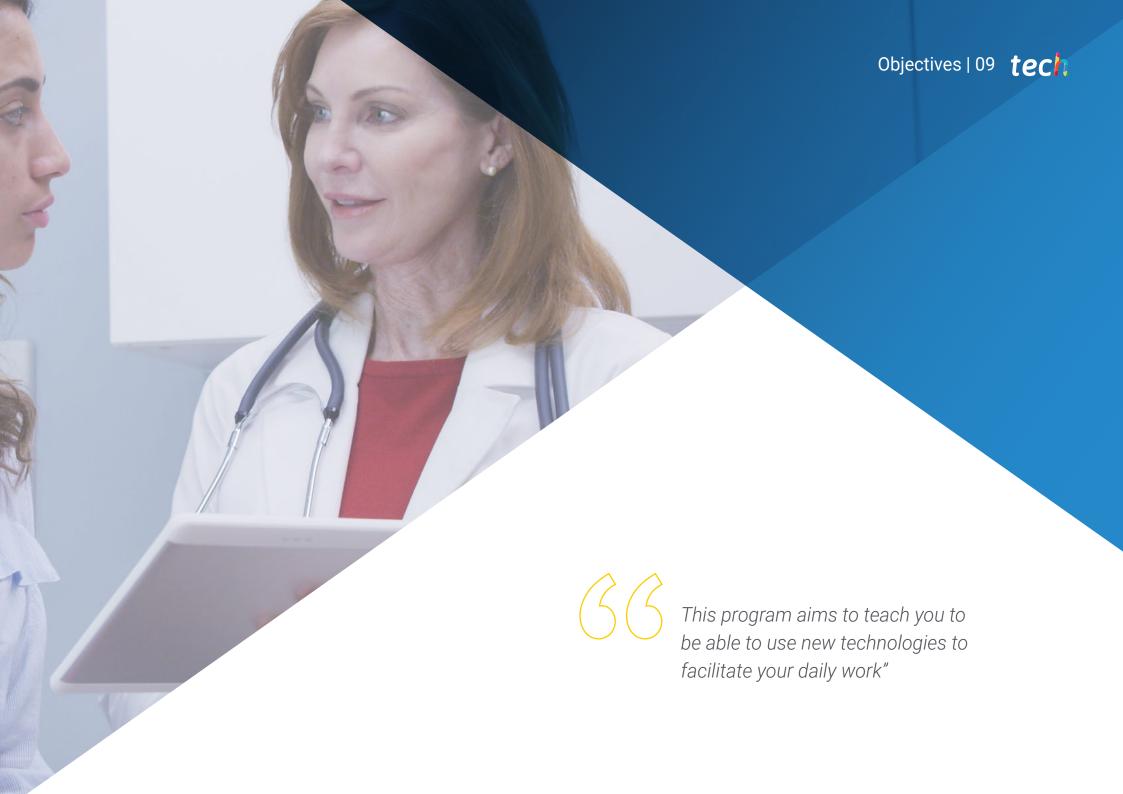
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise throughout the program.

We base our programs on practice as a means to teach you how to solve real problems that may arise in your work in emergency medicine.

With this Postgraduate Certificate, you will learn to understand and put into practice the utilities of new technologies at the service of emergency departments.







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General Objectives

- Specialize emergency medicine professionals in the methods that enable highly effective and efficient care in hospital emergency departments and primary care centers
- Apply the most complete and up-to-date syllabus on the market, designed by the best professionals in the field, to offer the most complete specialization to students
- Successfully treat patients in the emergency department with the knowledge to respond





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Specific Objectives

- Acquire general knowledge of new technologies and artificial intelligence
- Know the potential scenarios to use new technologies in the emergency department: catastrophes and pandemic situations
- Gain deeper knowledge of the tools for adequate diagnostic tests in the emergency department
- Use new technologies in the emergency department
- Use new technologies for patient information in the emergency department



TECH has set itself the goal of helping you to build your professional career so you can achieve everything you deserve"





International Guest Director

Dr. Ugo Ezenkwele is an eminent expert in the field of emergency medicine and managerial leadership in healthcare. His extensive experience in healthcare is coupled with his clinical and academic management skills. In this regard, his deep medical knowledge has led him to become **Head of Emergency Medicine at Mount Sinai Queens**. With his arrival in the position, innovative programs such as the ED Observation Unit, ED Geriatric Certification, Telemedicine, Emergency Management and Disaster Preparedness were launched to improve performance and patient experience.

In 2021, Dr. Ezenkwele received recognition for his outstanding work with the Crains New York award for Notable Black Leader and Executive. He has also earned numerous prestigious recognitions such as the Vituity Award in Executive Leadership, the National Medical Association's Service Excellence Award and the Visionary Educator Award from the Academic Society of Emergency Medicine.

His excellent management skills have led him to assume leadership roles in major medical organizations, serving as president of the National Medical Association's Section of Emergency Medicine and vice president of the Society for Academic Emergency Medicine's Academy of Diversity and Inclusion in Emergency Medicine. In both positions, he worked to implement policy changes with the goal of positively impacting the next generation of physician leaders and the communities they serve. In addition, he is an advisor to the American College of Emergency Physicians (ACEP) and an oral examiner for the American Board of Emergency Medicine (ABEM), responsibilities that demonstrate his commitment to continuous improvement in medical practice and his dedication to training skilled physicians.



Dr. Ezenkwele, Ugo

- Head of the Department of Emergency Medicine at Mount Sinai Queens, Astoria
- Attending Physician at Woodhull Medical and Mental Health Center an NYU Langone Affiliate Hospital
- Vice Chair of Emergency Medicine at Woodhull Medical and Mental Health Center an NYU Langone Affiliate Hospital
- Physician Liaison for Clinical Faculty Recruitment NYULMC Clinical Affairs Department
- M.D. from Johns Hopkins University
- MPH International Health Johns Hopkins University
- BS in Biology Johns Hopkins University
- Vituity Wes Curry Award for Executive Leadership
- Crains New York Business Notable Black Leader & Health Executive
- Excellence in Leadership Woodhull Medical and Mental Health Center
- National Medical Association's Emergency Medicine Section Leadership Award
- National Medical Association Excellence in Service Award (2013 and 2014)
- President of the American College of Emergency Physicians (ACEP) Diversity, Equity and Inclusion Committee
- ABEM Oral Board Examiner



Thanks to TECH you will be able to learn with the world's best professionals"

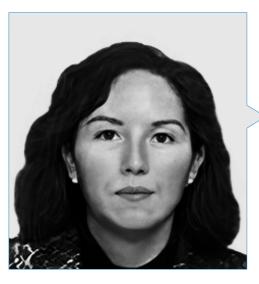
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Management



Dr. Torres Santos-Olmo, Rosario María

- Area Specialist in the Adult Emergency Department at La Paz Hospital, Madrid
- Degree in Medicine and Surgery
- PhD in Medicine and Surgery
- Specialist in Family and Community Medicine
- Master's Degree in Palliative Care and Supportive Neoplastic Patients Care
- · Life Support Instructor (BLS, ALS, ILS, ATLS
- Master's Degree in Palliative Care and Supportive Neoplastic Patient Care
- Master's Degree in Patient Safety and Health Risk Management.
- Clinical Collaborator at the Autonomous University of Madric



Dr. Rivera Núñez, María Angélica

- Assistant Coordinator in the Emergency Department at La Paz University Hospital, Madrid
- Surgeon at Universidad de Chile, Santiago de Chile
- Doctorate in Medicine and Surgery, Autonomous University of Madrid
- Specialist in Internal Medicine from the Catholic Pontificia University, Chile
- Certificate in Emergency Medicine
- Specialist Physician in Emergency Medicine at La Paz University Hospital, Madrid

Professors

Dr. Calvín García, María Elena

- Clinical Assistant and Mentor, Emergency Department, La Paz University Hospital
- Degree in Medicine
- Specialist in Family and Community Medicine
- Master's Degree in Emergency Medicine, Complutense University, Madrid
- HULP Emergency Department Attending Physician
- Clinical Reference in Emergency Services HULP

Dr. Cancelliere, Nataly

- HULP Emergency Department Specialist in
- Doctorate in Medicine from the Autonomous University Madrid
- Specialist in Ophthalmology at University Hospital La Paz
- Master's Degree in Emergency Medicine, SEMES

Dr. González Viñolis, Manuel

- HULP Emergency Department Attendant
- Degree in Medicine and Surgery from La Laguna University
- Master's Degree in Clinical Unit Management from the University of Murcia

Dr. Martínez Zarza, Ana María

- Quality and Teaching Coordinator in the HULP Emergency Department
- Graduate in Medicine and Surgery from the University of Valladolid
- PhD in Medicine and Surgery from the Autonomous University of Madrid
- Master's Degree in Medical and Clinical Management from the National University of Distance Education, Spain
- Medical Surgical Emergencies Expert
- HULP Emergency Department Attending Physician

Dr. Maroun Eid, Charbel

- Attending Emergency Physician at HULP
- Degree in Medicine and Surgery from Gallegos Rómulo University
- Master's Degree in Cardiovascular Risk Prevention from Alcalá University

Dr. Martín Quirós, Alejandro

- HULP Emergency Department Attending Physician
- Degree in Medicine and Surgery from the University of Cadiz
- PhD from Universidad Autónoma de Madrid within the Program in Medicine

Dr. Mayayo Alvira, Rosa

- Head of the Toxicology Unit in the HULP Emergency Department
- Degree in Medicine from Rovira i Virgili University
- HULP Emergency Department Attending Physician

Mr. Rubio Bolivar, Javier

- HULP Simulation Technician
- CEASEC Simulation Technician



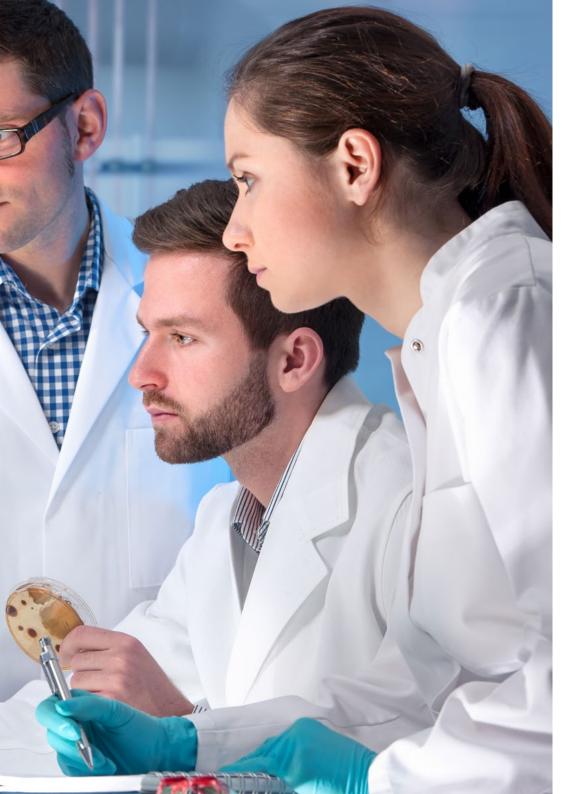


tech 18 | Structure and Content

Module 1. New Technologies in Emergency Services

- 1.1. What Is Meant by New Technologies?
- 1.2. Computer Applications at the Service of the Emergency Physician
- 1.3. New Triage Systems in Emergencies
- 1.4. Artificial Intelligence at the Service of the Emergency Physician
- 1.5. New Technologies in Disaster Situations
- 1.6. New Technologies in Pandemic Situations
- 1.7. New Systems for Diagnostic Test Adequacy in Emergency Departments
- 1.8. Integrating Technology in Patient and Family Information
- 1.9. Bringing Patients Closer to the Emergency Department through Technology



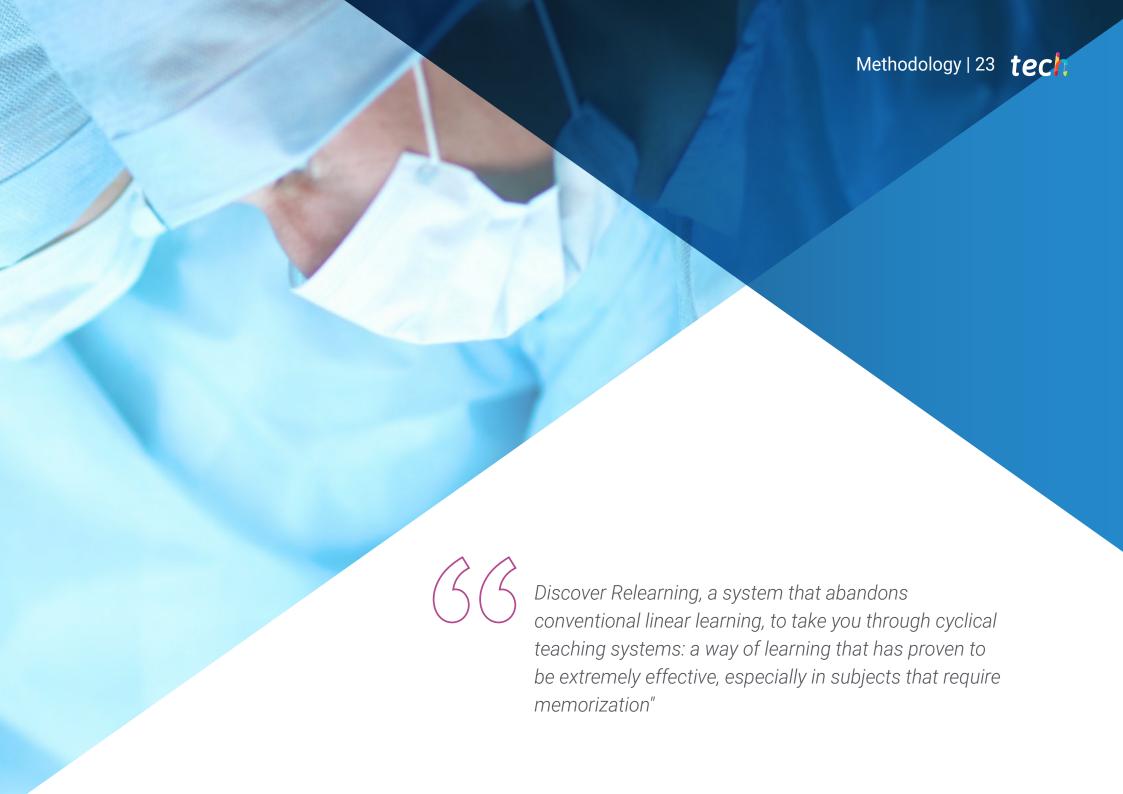




Welcome to the training that will take your career to the next level.

Don't let this opportunity slip away"





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At TECH, we use the Case Method

What should a professional do in a given situation? 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 you will 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 in the physician's professional practice.



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:

- Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that evaluate 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.





Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

Professionals will learn through real cases and by resolving complex situations in simulated learning environments. These simulations are developed using state-of-theart software to facilitate immersive learning.



Methodology | 27 tech

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 250,000 physicians have been trained with unprecedented success in all clinical specialties regardless of surgical load. Our pedagogical methodology is developed in a highly competitive environment, with a university student body with a strong socioeconomic profile and an average age of 43.5 years old.

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.

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.

tech 28 | Methodology

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 adapted in 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.



Surgical Techniques and Procedures on Video

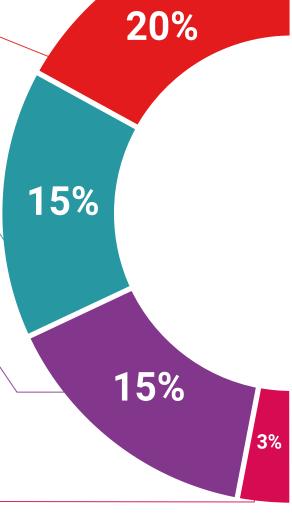
TECH introduces students to the latest techniques, the latest educational advances and to the forefront of current medical techniques. All of this in direct contact with students and explained in detail so as to aid their assimilation and understanding. And best of all, you can watch the videos as many 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 on the usefulness of learning by observing experts.

The system known as 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.









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This **Postgraduate Certificate in New Technologies in Emergency Services** 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 diploma issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations and professional career evaluation committees.

Title: Postgraduate Certificate in New Technologies in Emergency Services
Official Number of Hours: 150 h.



POSTGRADUATE CERTIFICATE

New Technologies in Emergency Services

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro

his qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.

ue TECH Code: AFWORD23S techtitute.com/certifi

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

salud confianza personas
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educación información tutores
garantía acreditación enseñanza
instituciones tecnología aprendizaj
comunidad compromiso



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