Postgraduate Diploma

Clinical Ultrasound of the Digestive and Genitourinary Tracts for Nursing

tech global university

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Postgraduate Diploma

Clinical Ultrasound of the Digestive and Genitourinary Tracts for Nursing

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

Website: **www.techtitute.com/us/nursing/postgraduate-diploma/postgraduate-diploma-digestive-genitourinary-tracts-clinical-ultrasound-nursing**

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01

Introduction to the Program

Clinical Ultrasound is a non-invasive, accessible, and highly valuable diagnostic tool for evaluating the Digestive and Genitourinary Systems. In the field of Nursing, its integration enhances initial patient assessment, speeds up clinical decision-making, and optimizes comprehensive care. For this reason, it is essential that experts frequently update their skills to incorporate this technological tool into their daily practice, offering more personalized care to contribute to optimal patient recovery. With this core principle in mind, TECH Global University has developed an innovative university program focused on the use of cutting-edge ultrasound equipment to visualize structures within the Digestive and Genitourinary Systems. And all of this is offered through a convenient 100% online format!

Thanks to this 100% online program, you will master the use of Clinical Ultrasound to obtain high-resolution images of the Digestive and Genitourinary Systems.

According to a recent study by the World Health Organization, access to point-of-care ultrasound has increased by 50% in the last decade, especially in rural areas and emergency situations. Moreover, the Digestive and Genitourinary Systems are among the most frequently explored using this technique. Among its main benefits, ultrasound offers immediate diagnostic information, is radiation-free, and is non-invasive, allowing for quick and safe patient assessment. It also facilitates the ongoing monitoring of common pathologies such as Urinary Retention, Renal Lithiasis, and abdominal inflammatory processes. For this reason, it is crucial for nurses to incorporate the most modern approaches to handling this emerging technological tool with precision and high safety standards into their daily practice.

With this in mind, TECH Global University offers an exclusive program in Clinical Ultrasound of the Digestive and Genitourinary Tracts for Nursing. Designed by true leaders in this field, the academic curriculum will delve into topics ranging from the integration of ultrasound sound waves with body tissues and the physical principles of ultrasound to the application of sophisticated ultrasound modes. The syllabus will also focus on the early identification of prevalent conditions such as Liquid Focal Lesions, Biliary Tract Malformations, and even Chronic Pancreatitis. Additionally, the teaching materials will provide a variety of strategies for detecting Genitourinary Conditions, including Malignant Bladder Pathology. As a result, graduates will develop advanced competencies to use ultrasound devices with precision and clinical judgment.

Regarding methodology, this program is delivered through the disruptive Relearning system to promote a progressive knowledge update. Moreover, all you will need is an internet-enabled device to access the Virtual Campus.

Additionally, a prestigious International Guest Director will deliver rigorous Masterclasses.

The **Postgraduate Diploma in Clinical Ultrasound of the Digestive and Genitourinary Tracts for Nursing** contains the most complete and up-to-date university program on the market. Its most notable features are:

- The development of practical cases presented by experts in Clinical Ultrasound of the Digestive and Genitourinary Tracts for Nursing
- 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
- 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

A renowned International Guest Director will deliver intensive Masterclasses on the latest trends in Clinical Ultrasound of the Digestive and Genitourinary Systems"

You will develop advanced technical skills for the ultrasound identification of abdominal and pelvic anatomical structures, as well as the recognition of common pathological findings"

The characteristic Relearning system of this Postgraduate Diploma will allow you to update your knowledge at your own pace, without being dependent on external teaching constraints.

You will ensure compliance with legal and ethical standards in ultrasound practice within the Nursing profession.

The program includes a teaching team composed of professionals from the field of Clinical Ultrasound of the Digestive and Genitourinary Tracts for Nursing, who share their practical experience, alongside recognized 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 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.

02

Why Study at TECH?

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

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

The world's best online university, according to FORBES

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

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

The educational materials for this Postgraduate Diploma have been created by specialists in Clinical Ultrasound. As a result, the curriculum will delve into the physical principles of ultrasound, the construction of ultrasound images, and the advanced use of various ultrasound modes. The syllabus will also cover the identification of multiple Digestive Pathologies, such as Pancreatitis, Diffuse Liver Disease, and Retroperitoneal Lesions. Additionally, the teaching materials will analyze the early detection of common Genitourinary Conditions, including Renal Insufficiency and Malignant Bladder Pathology.

You will deepen your understanding of performing ultrasound-guided procedures, such as assisted bladder catheterization and evaluation of urinary retention"

Module 1. Ultrasound Imaging

1.1. Physical Principles
- 1.1.1. Sound and Ultrasound
- 1.1.2. The Nature of Sound
- 1.1.3. Interaction of Sound with Matter
- 1.1.4. The Concept of Ultrasound
- 1.1.5. Ultrasound Safety

1.2. Ultrasound Sequence
- 1.2.1. Ultrasound Emission
- 1.2.2. Tissue Interaction
- 1.2.3. Echo Formation
- 1.2.4. Ultrasound Reception
- 1.2.5. Ultrasound Image Generation

1.3. Ultrasound Modes
- 1.3.1. A-Mode and M-Mode
- 1.3.2. B-Mode
- 1.3.3. Doppler Modes (Color, Angio, and Spectral)
- 1.3.4. Combined Modes

1.4. Ultrasound Scanners
- 1.4.1. Common Components
- 1.4.2. Classification
- 1.4.3. Transducers

1.5. Ultrasound Maps and Echonavigation
- 1.5.1. Spatial Layout
- 1.5.2. Ultrasound Maps
- 1.5.3. Transducer Movements
- 1.5.4. Practical Advice

1.6. Trends in Ultrasound
- 1.6.1. 3D/4D Ultrasound
- 1.6.2. Sonoelastography
- 1.6.3. Echopotentiation
- 1.6.4. Other Modes and Techniques

Module 2. Clinical Ultrasound of the Digestive Tract and Large Vessels

2.1. Hepatic Ultrasound
- 2.1.1. Anatomy
- 2.1.2. Liquid Focal Lesions
- 2.1.3. Solid Focal Lesions
- 2.1.4. Diffuse Liver Disease
- 2.1.5. Chronic Liver Disease

2.2. Ultrasound of Gallbladder and Bile Ducts
- 2.2.1. Anatomy
- 2.2.2. Cholelithiasis and Biliary Sludge
- 2.2.3. Vesicular Polyps
- 2.2.4. Cholecystitis
- 2.2.5. Bile Duct Dilatation
- 2.2.6. Bile Duct Malformations

2.3. Pancreatic Ultrasound
- 2.3.1. Anatomy
- 2.3.2. Acute Pancreatitis
- 2.3.3. Chronic Pancreatitis

2.4. Ultrasound of the Major Vessels
- 2.4.1. Abdominal Aortic Disease
- 2.4.2. Vena Cava Pathology
- 2.4.3. Pathology of Celiac Trunk, Hepatic Artery, and Splenic Artery.
- 2.4.4. Aorto-Mesenteric Clamp Pathology

2.5. Ultrasound of the Spleen and Retroperitoneum
- 2.5.1. Spleen Anatomy
- 2.5.2. Splenic Focal Lesions
- 2.5.3. Study of Splenomegaly
- 2.5.4. Adrenal Gland Anatomy
- 2.5.5. Adrenal Pathology
- 2.5.6. Retroperitoneal Lesions

2.6. The Digestive Tract
- 2.6.1. Ultrasound Examination of the Stomach
- 2.6.2. Ultrasound Examination of the Small Intestine
- 2.6.3. Ultrasound Examination of the Colon

Module 3. Clinical Genitourinary Ultrasound

3.1. Kidneys and Urinary Tract
- 3.1.1. Anatomical Review
- 3.1.2. Structural Alterations
- 3.1.3. Hydronephrosis. Urinary Tract Dilation
- 3.1.4. Renal Cysts, Kidney Stones, and Tumors
- 3.1.5. Renal Insufficiency

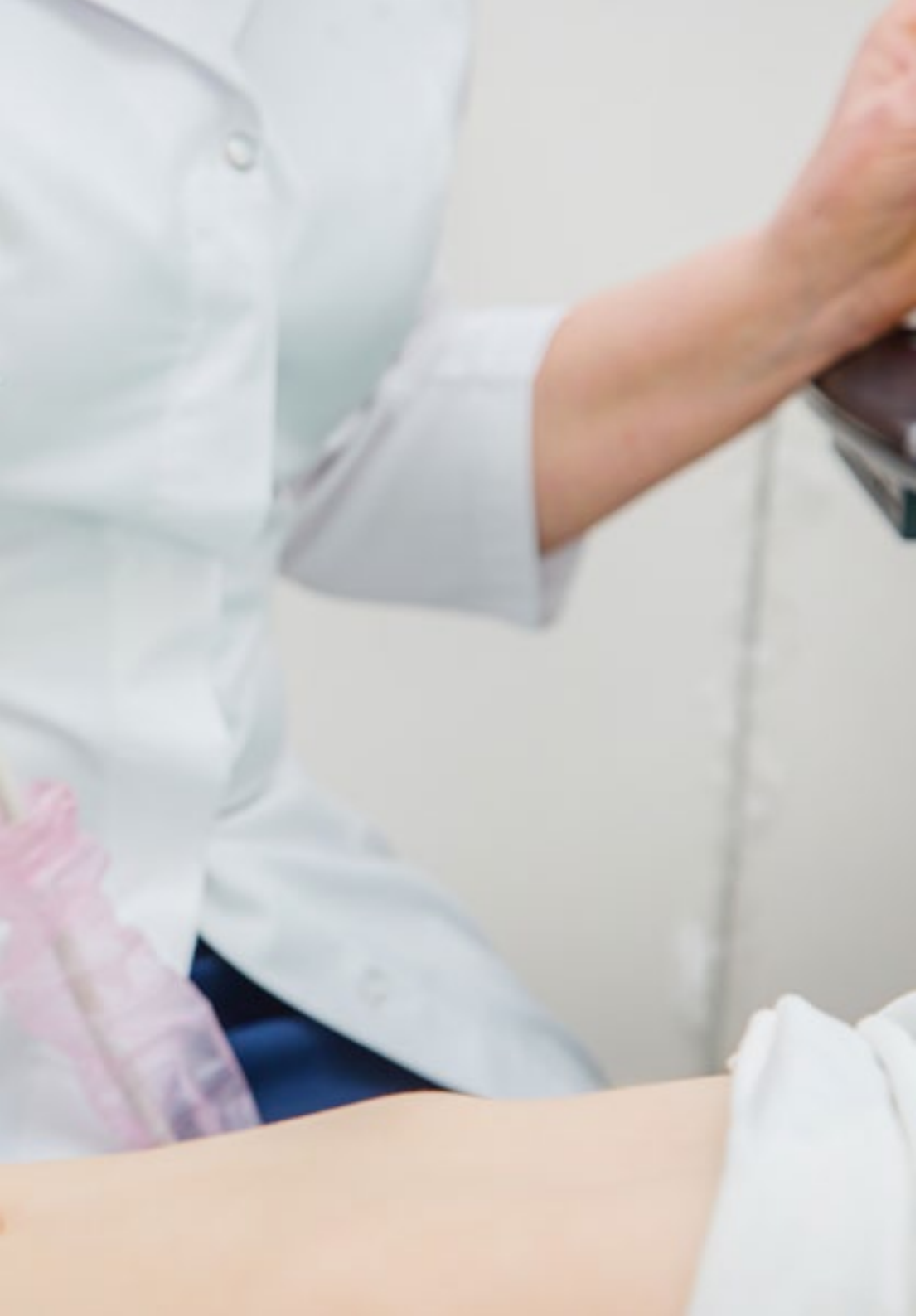
3.2. Urinary Bladder
- 3.2.1. Anatomical Review
- 3.2.2. Ultrasound Characteristics
- 3.2.3. Benign Bladder Pathology
- 3.2.4. Malignant Bladder Pathology

3.3. Prostate and Seminal Vesicles
- 3.3.1. Anatomical Review
- 3.3.2. Ultrasound Characteristics
- 3.3.3. Benign Prostatic Pathology
- 3.3.4. Malignant Prostatic Pathology
- 3.3.5. Benign Seminal Pathology
- 3.3.6. Malignant Seminal Pathology

3.4. Scrotum
- 3.4.1. Anatomical Review
- 3.4.2. Ultrasound Characteristics
- 3.4.3. Benign Scrotal Pathology
- 3.4.4. Malignant Scrotal Pathology

3.5. The Uterus
- 3.5.1. Anatomical Review
- 3.5.2. Ultrasound Characteristics
- 3.5.3. Benign Uterine Pathology
- 3.5.4. Malignant Uterine Pathology

3.6. Ovaries
- 3.6.1. Anatomical Review
- 3.6.2. Ultrasound Characteristics of the Ovaries
- 3.6.3. Benign Ovarian Pathology
- 3.6.4. Malignant Ovarian Pathology



Practical exercises based on real cases and videos in detail elaborated by the teachers themselves will be the key to your success in this university program".

04

Teaching Objectives

This university qualification provides nursing professionals with the technical and clinical skills needed to perform ultrasound examinations with precision. Graduates will be able to identify anatomical structures, detect digestive and genitourinary pathological findings, and apply different ultrasound modes based on the clinical context. Moreover, experts will be highly trained in image interpretation, ultrasound device management, and evidence-based clinical decision-making, enhancing their autonomous role in demanding healthcare environments.

You will properly document ultrasound findings and prepare detailed clinical reports to contribute to well-informed clinical decision-making"

General Objectives

- Acquire the necessary knowledge in the use of ultrasound to manage common situations in your clinical practice
- Apply the skills acquired in performing the duties of a specialist in Ultrasound
- Utilize the latest clinical advancements in daily nursing practice
- Understand the indications and limitations of Clinical Ultrasound, and its application in the most common clinical situations

You will apply quality standards, risk control, biosecurity, and confidentiality when using ultrasound equipment"

Specific Objectives

Module 1. Ultrasound Imaging

- Optimize ultrasound imaging through in-depth knowledge of the physical principles of ultrasound, controls, and the operation of ultrasound machines
- Master basic and advanced ultrasound procedures, both diagnostic and therapeutic
- Practice all ultrasound modalities in the safest way for the patient
- Know the indications and limitations of clinical ultrasound, and its application in the most frequent clinical situations

Module 2. Clinical Ultrasound of the Digestive Tract and Large Vessels

- Analyze whether digestive and large vessel issues can be identified from an initial ultrasound image
- Act promptly when a digestive problem requires emergency diagnosis
- Identify the main anomalies involving the digestive system and great vessels
- Perform ultrasound procedures on pregnant women

Module 3. Clinical Genitourinary Ultrasound

- Identify the lower zone within the ultrasound process and recognize its possible genitourinary issues
- Diagnose genitourinary problems affecting the lower zone of patients through Ultrasound
- Perform Ultrasound procedures as a preventive protocol for Urinary Diseases
- Identify possible abnormalities affecting the Genitourinary System through image diagnosis.

05

Career Opportunities

This comprehensive university program from TECH represents a unique opportunity for nursing professionals seeking to acquire advanced competencies in Clinical Ultrasound applied to the Digestive and Genitourinary Systems. With this specialized training, graduates will be able to perform accurate ultrasound examinations and enhance clinical decision-making. As a result, they will significantly expand their career opportunities in prestigious international healthcare institutions.

Looking to work as a Specialist Technician in Econavigation with Ultrasound Equipment? This university qualification will provide you with the keys to achieve that in just 6 months!"

Graduate Profile

The graduate of this Postgraduate Diploma will be a professional trained to integrate Clinical Ultrasound into nursing practice, improving assessment, early diagnosis, and patient-centered care. Additionally, they will master the use of the ultrasound device, image interpretation, and the detection of common digestive and genitourinary pathologies. Graduates will also be able to collaborate actively in multidisciplinary teams, lead innovative care processes, and promote the safe and ethical use of this diagnostic tool in various clinical settings.

You will design and implement clinical protocols to ensure the standardized and safe practice of ultrasound in healthcare.

- **Technological Integration in Nursing Practice:** Ability to incorporate clinical ultrasound as a diagnostic and monitoring support tool in nursing care, improving the precision and effectiveness of patient care
- **Critical Thinking and Decision Making:** Ability to analyze ultrasound images, interpret findings, and collaborate in evidence-based clinical decision-making, promoting safe and effective care
- **Ethical Responsibility and Patient Safety:** Commitment to ethical principles, confidentiality, and safety when conducting ultrasound studies, ensuring dignified and respectful treatment of patients
- **Interdisciplinary Teamwork:** Ability to collaborate with professionals from various medical fields, actively contributing to integrated care through the shared use of diagnostic tools like ultrasound.

After completing this university program, you will be able to apply your knowledge and skills in the following positions:

1. **Administrator in Diagnostic Imaging Services:** Responsible for coordinating human and technological resources in Clinical Ultrasound units, ensuring quality, efficiency, and regulatory compliance in digestive and genitourinary care.
2. **Specialized Technician in Econavigation and Ultrasound Equipment Handling:** A professional with advanced expertise in using ultrasound devices, image modes, and anatomical positioning, supporting practical training and continuous improvement of the nursing team.
3. **Clinical Advisor in Ultrasound Protocols for Nursing:** Responsible for designing, reviewing, and implementing clinical guidelines and institutional protocols for the safe and standardized practice of ultrasound in nursing.
4. **Consultant in Clinical Ultrasound Integration in Healthcare Units:** Responsible for advising healthcare centers, clinics, or hospitals on the strategic integration of clinical ultrasound into the nursing workflow, adapting solutions to meet the specific needs of the environment.

> *You will provide personalized advice to healthcare entities on the strategic incorporation of Clinical Ultrasound in the nursing workflow"*

06

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.

"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.

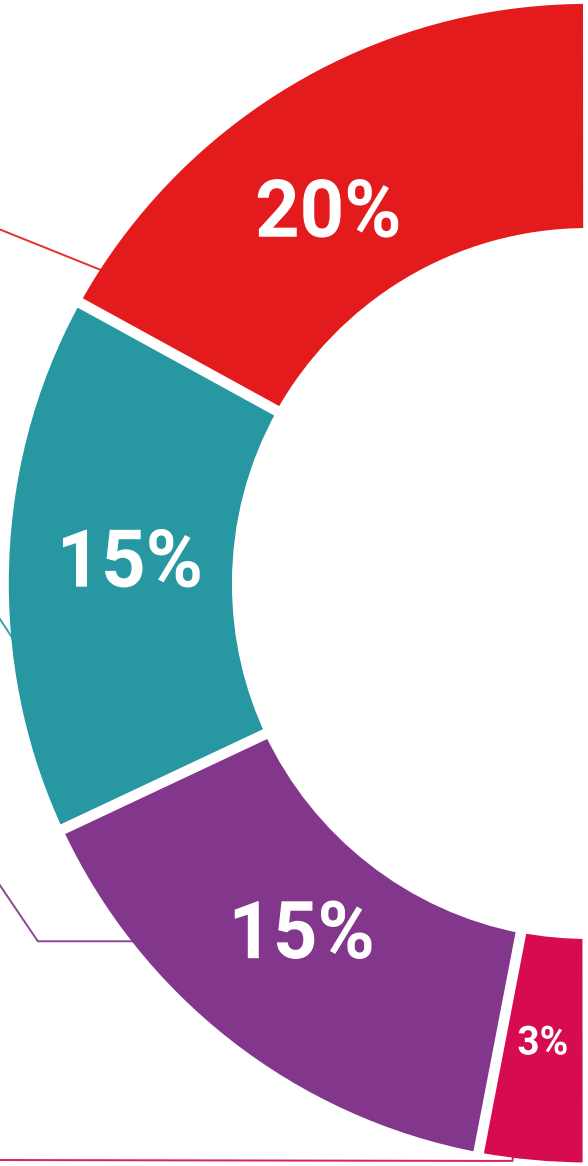
Interactive Summaries

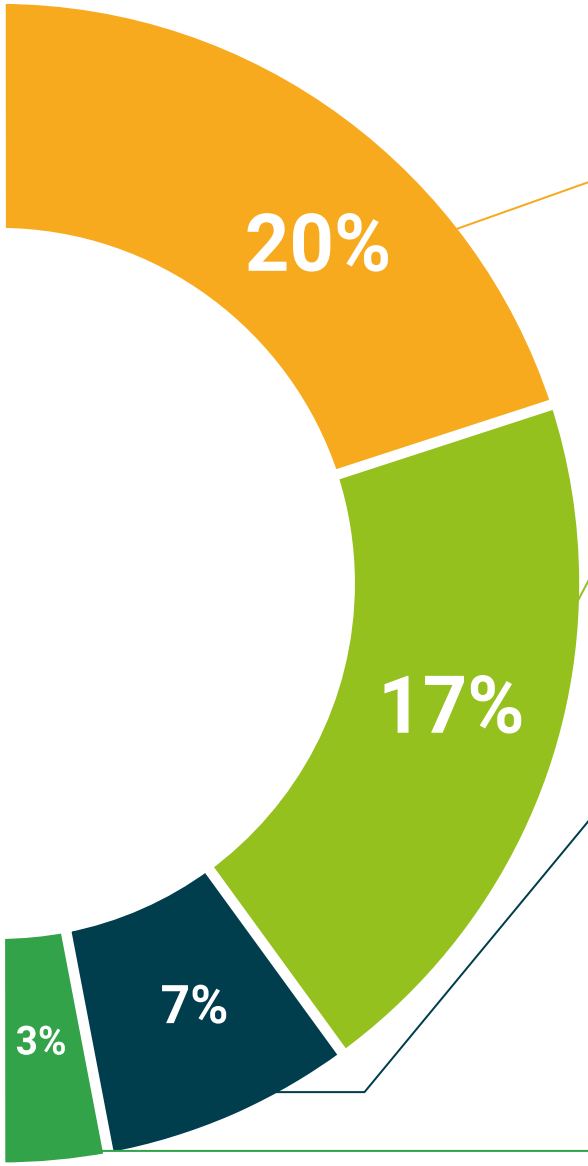
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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.





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.

07

Teaching Staff

In its firm commitment to offering the most comprehensive and up-to-date academic qualifications, TECH Global University carries out a meticulous process to form its teaching staff. As a result, this Postgraduate Diploma benefits from the collaboration of true leaders in the use of Clinical Ultrasound of the Digestive and Genitourinary Systems in nursing units. These experts have developed a range of educational materials that stand out for their exceptional quality and alignment with the demands of the labor market. As such, graduates are assured of an immersive experience that will optimize their clinical practice.

The teaching team for this academic program is composed of renowned specialists in the management of Clinical Ultrasound of the Digestive and Genitourinary Systems"

International Guest Director

Dr. Lauren Ann J. Selame is a recognized professional in the **field of Medicine**, specializing in **Clinical Ultrasound**. Her expertise focuses on the **application of ultrasound** in **emergency medical**, **diagnostic imaging**, **simulation** and **public health**. With a deep interest in **procedural competence** and in the development of **advanced techniques** to detect various disorders, she has contributed significantly to the use of **Anatomical Ultrasound** to improve response times and accuracy in emergency treatments.

Throughout his career, he has played key roles in prestigious institutions. At **Brigham Women's Hospital**, recognized among the best hospitals in the world by Newsweek magazine, she has been **Director of Ultrasound Education in Emergency Medicine**, in addition to serving as an emergency physician. Her experience also includes her time at **Massachusetts General Hospital** as an Emergency Ultrasound Assistant, and at **Thomas Jefferson Hospital**, where she was a **resident in Emergency Medicine**, after training at the Sidney Kimmel School of Medicine of Thomas Jefferson University.

At the international level, she is noted for her contributions, especially in **Emergency Medicine**. She has worked in some of the most prestigious healthcare centers in the United States, which has allowed her to hone her skills and bring significant advances to the medical community. Her work has earned her a reputation for her expertise in **diagnostic ultrasound**, and she is a reference in the use of this **technology in emergencies**.

As a researcher associated with university institutions, she has written **numerous scientific articles** on its emphasis, addressing both its application in critical situations and its advances in medical diagnosis. Her publications are consulted by professionals worldwide, consolidating her role as one of the most influential voices in the field of **clinical ultrasound**.

Dr. Selame, Lauren Ann J.

- Director of Ultrasound in Emergency Medicine at Brigham Women's Hospital, Boston, United States
- Emergency Medicine Physician Specialist at Brigham Women's Hospital
- Emergency Ultrasound Physician Specialist at Massachusetts General Hospital, Massachusetts
- Resident Physician in Emergency Medicine at Thomas Jefferson University Hospital
- Research Assistant at the Perelman School of Medicine, University of Pennsylvania
- M.D., Thomas Jefferson University
- Medical Degree, Sidney Kimmel School of Medicine at the Thomas Jefferson University

Thanks to TECH, you will be able to learn with the best professionals in the world"

Management

Dr. Fumadó Queral, Josep

- Family Physician at the Primary Care Center of Els Muntells.
- Head of the Emergency Ultrasound Group of the Spanish Society of General and Family Physicians (SEMG).
- Graduate in Clinical Ultrasound and Training of Trainers from the University of Montpelier
- Lecturer at the Associació Mediterrània of General Medicine
- Teacher at the Spanish School of Ultrasound of the Spanish Society of General and Family Physicians (SEMG).
- Honorary Member of the Canary Society of Ultrasound (SOCANECO) and Professor of its Annual Symposium.
- Professor on the Master's Degree in Clinical Ultrasound for Emergencies and Critical Care at the CEU Cardenal Herrera University.

Dr. Pérez Morales, Luis Miguel

- Primary Care Physician in the Canarian Health Service
- Family physician at the Primary Care Center of Arucas (Gran Canaria, Canary Islands).
- President and Professor of the Canary Society of Ultrasound (SOCANECO) and Director of its Annual Symposium
- Professor on the Master's Degree in Clinical Ultrasound for Emergency and Critical Care at the CEU Cardenal Herrera University
- Expert in Thoracic Ultrasound by the University of Barcelona
- Expert in Clinical Abdominal and Musculoskeletal Ultrasound for Emergencies and Critical Care by the University CEU Cardenal Herrera
- Diploma of the Curs d'Ecografia en Atenció Primària by the University Rovira i Virgili from the Institut Catalá de la Salut

Teachers

Dr. Álvarez Fernández, Jesús Andrés

- Head Physician at the Juaneda Miramar Hospital
- Specialist in Intensive Care Medicine and Burn Patient Management at the University Hospital of Getafe
- Associate Researcher in the Area of Neurochemistry and Neuroimaging at the University of La Laguna

Dr. Herrera Carcedo, Carmelo

- Physician at San Juan de Dios Hospital
- Family Physician of the Ultrasound Unit at the Briviesca Health Center
- Tutor at the Family and Community Medicine Teaching Unit in Burgos
- Teacher at the Spanish School of Ultrasound of the Spanish Society of General and Family Physicians (SEMG).
- Member of the Spanish Society of Ultrasound (SEECO) and the Spanish Association of Prenatal Diagnosis (AEDP)

Dr. Jiménez Díaz, Fernando

- Expert in Sport Medicine and University Professor
- Founder and Director of Sportoledo
- Researcher at the Laboratory of Sports Performance and Injury Rehabilitation of the University of Castilla La Mancha
- Member of the Medical Service at Club Baloncesto Fuenlabrada.
- PhD in Medicine and Surgery by University of Cordoba
- President of the Spanish Society of Ultrasound.
- Member of: Spanish Society of Sports Medicine and European Federation of Societies of Ultrasound in Medicine and Biology

Dr. Sánchez Sánchez, José Carlos

- Director of the Ultrasound Tasks Group of the Spanish Society of General and Family Physicians.
- Specialist Medical Officer in Radiodiagnosis at the Poniente Hospital, El Ejido
- Master's Degree in Updates on Diagnostic and Therapeutic Techniques in Radiology by Cardenal Herrera University
- University Expert in Technique and instrumentation, radiology emergencies and Interventional neuro radiology by Francisco de Vitoria University.
- University Expert in Cardiothoracic Radiology and Vascular and Interventional Radiology by the Francisco de Vitoria University.
- Expert in Imaging Techniques in Breast Pathology and Breast Radiology by the University of Barcelona.

Dr. Cabrera González, Antonio José

- General Practitioner at the Arucas Medical Center in Las Palmas de Gran Canaria
- General Practitioner at the Tamaraceite Health Center in Las Palmas de Gran Canaria.
- Expert in Medical Services of Recognition in Consultation and Radiodiagnostics

Dr. De Varona Frolov, Serguei

- Medical Specialist in Angiology and Vascular Surgery of the Canary Islands Institute of Advanced Medicine
- Angiologist at Dr. Negrin University Hospital of Gran Canaria
- Master's Degree in Endovascular Techniques by Boston Scientific P.L.

Dr. Fabián Fermoso, Antonio

- Software Engineer at GE Healthcare
- Product Specialist of the Operating Room Unit for Prim S.A.
- Engineer for Skyter's Medical, Endoscopy and Traumatology Business Unit.
- Master's Degree in Business Administration by ThePower Business School

Mr. Moreno Valdés, Javier

- Business Manager of the Ultrasound Division of Canon Medical Systems for Spain
- Advisor to the Working Group of Residents of the Spanish Society of Medical Radiology.
- Master's Degree in Business Administration from EAE Business School

Dr. López Cuenca, Sonia

- Specialist in Family Medicine and Intensive Care at the Hospital Universitario Rey Juan Carlos
- Intensivist at the University Hospital of Getafe
- Researcher of the Madrid Health Service
- Intensivist at the Hospital Los Madroños
- Out-of-hospital emergency physician in SUMMA

Dr. Segura Blázquez, José María

- Family Doctor at the Canary Institute of Advanced Medicine
- Family Doctor at the Canalejas Health Center in Las Palmas de Gran Canaria
- Family Doctor in Tres Ramblas Medical Center of Las Palmas de Gran Canaria
- Master's Degree in Public Health and Epidemiology at the University of Las Palmas de Gran Canaria. Member of: Spanish Society of Primary Care Physicians and Canary Society of Ultrasound

Dr. León Ledesma, Raquel

- Specialist of the General and Digestive System Surgery Department at Getafe University Hospital
- Specialist of the Gynecology and Obstetrics Department at Getafe University Hospital
- Specialist in Bariatric and Pancreatic Surgery
- Expert in Breast Cancer
- Bachelor's Degree in Medicine and Surgery

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08

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Accreditation: **18 ECTS**


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In Andorra la Vella, on the 28th of February of 2024

Dr. Pedro Navarro Illana
Dean

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- Exams: **online**

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