

Postgraduate Certificate

Advanced Life Support
in Pregnant Women





Postgraduate Certificate Advanced Life Support in Pregnant Women

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

Website: www.techtute.com/us/medicine/postgraduate-certificate/advanced-life-support-pregnant-women

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

Postpartum hemorrhage is one of the most dangerous obstetric complications, a cause of maternal mortality worldwide. It is estimated that women lose half a liter of blood, because some blood vessels tear when the placenta detaches from the uterus. Faced with this situation, healthcare experts are faced with the challenge of keeping patients stable for longer and being able to make decisions in emergencies. In this regard, Endovascular Aortic Resuscitation (EORAR) is one of the most effective techniques for surgeons to gain extra time for the management of postpartum hemorrhage. To get the most out of this process, TECH implements an advanced 100% online program.

“

You will delve into the epidemiology of cardiorespiratory arrest in pregnant women by applying the most modern prognostic scales"

When emergencies affecting pregnant women occur, it is vital that specialists organize both technical and human resources appropriately. Otherwise, they would offer inadequate diagnosis and treatment, leading to an increased risk of the fetus developing disabilities. To avoid these problems, medical professionals must first have a comprehensive protocol for the care of pregnant women. In this way, they will be able to respond to emergencies with immediacy and ensure an improvement in the quality of life-saving care.

In this context, TECH has developed an innovative program, which will lay the foundations of organization during such actions and will constitute an action guide for specialists, in cases of emergencies involving pregnant women. Under the supervision of a teaching staff specialized in this area, the syllabus will delve into how both human and technical resources should be distributed.

In addition, the syllabus will delve into the most modern techniques for airway control, ventilation and circulation control. The didactic materials will also address the international legal framework that regulates these actions. In this way, graduates will be able to make decisions, from an ethical profile, in Cardiorespiratory Arrest.

The academic itinerary has a 100% online methodology, so that students can comfortably enter the program. In this way, you will only need an electronic device with Internet access to expand your knowledge and become an expert in Advanced Life Support applied to pregnant women.

In this sense, the program offers its students the most avant-garde methodology in the current educational market: *Relearning*. This teaching system is based on the reiteration of the most important contents, guaranteeing a natural learning process capable of lasting in the memory.

This **Postgraduate Certificate in Advanced Life Support in Pregnant Women** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ♦ Practice cases presented by experts in Advanced Life Support in Pregnant Women
- ♦ 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



You will delve into the most useful procedures for the management of Arrhythmias, thanks to this 100% online qualification"

“

Want to more accurately identify reversible causes of Cardiorespiratory Arrest? Get it in 180 hours with this revolutionary program”

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 academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will master the REBOA cardiovascular procedure and improve perfusion of vital organs.

You will achieve your goals thanks to TECH's didactic tools, including explanatory videos and interactive summaries.



02 Objectives

This Postgraduate Certificate will allow students to obtain an integral vision of the anatomical and physiological bases of pregnant women. After 180 hours of learning, they will establish the main causes of cardiorespiratory arrest in pregnant women. They will also develop the necessary elements for the implementation of a specific care team in this field. Moreover, they will carry out an effective approach to *perimortem* cesarean sections in order to preserve the lives of mothers and fetuses.





“

TECH's priority is to offer students the most complete qualification on the market. You will stand out for being the most efficient in your profession!"



General Objectives

- ♦ Examine the anatomical and physiological bases of pregnant women
- ♦ Analyze the pathophysiology of CRP in pregnant women
- ♦ Establish the main causes of CPR in pregnant women
- ♦ Determine the BLS and ALS measures in pregnant women
- ♦ Assess the principles for the use of exceptional therapeutic systems: REBOA, ECMO, etc
- ♦ Analyze and define the equipment for the practice of *perimortem* cesarean section
- ♦ Study the basic medical-legal aspects involved in the attention to this health problem





Specific Objectives

- Analyze the elements that are part of BLS and ALS
- Examine the elements that form part of the specific measures of action
- Analyze and develop the necessary elements for the implementation of a specific care team for pregnant patients with CRP
- Develop the elements necessary for the performance of a perimortem cesarean section
- Analyze the technical and human resources required for the overall care of the pregnant patient in CRP

“

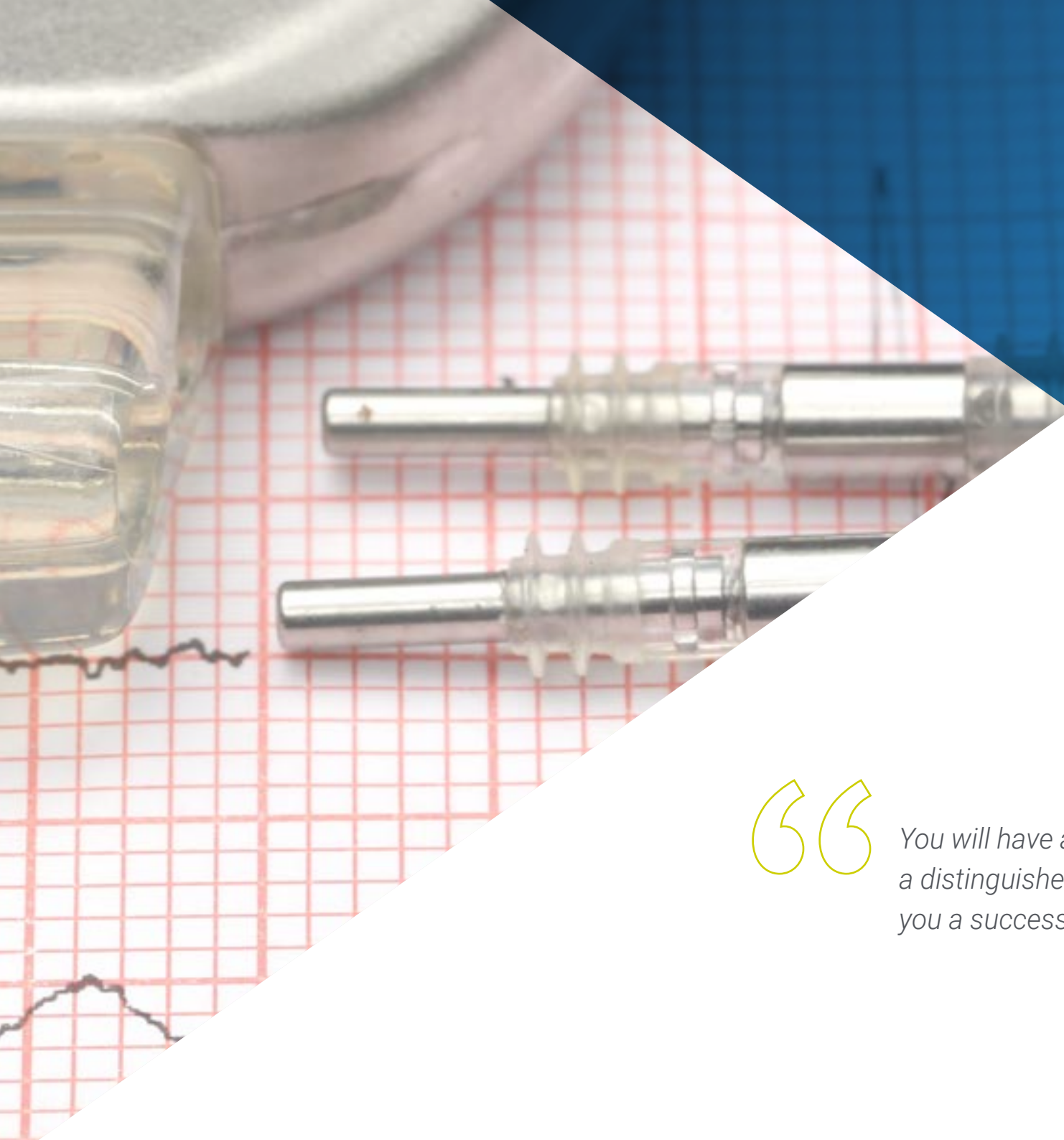
You will gain valuable lessons through real cases in simulated learning environments”

03

Course Management

In order to provide the highest educational excellence, TECH has a first class teaching staff. These professionals have extensive work experience, which has allowed them to integrate the teams of prestigious hospitals. Therefore, the syllabus will be characterized by having the most updated and complete contents in Advanced Life Support in Pregnant Women. They will also provide students with the most modern technological tools to contribute to the quality of life of their patients.





“

You will have access to a syllabus designed by a distinguished teaching staff, guaranteeing you a successful learning experience"

International Guest Director

Awarded for his multiple clinical contributions in the management of Headaches and Sleep Disorders, Dr. Joshua Marc Kosowsky has become a prestigious Physician characterized by his multidisciplinary approach. In this regard, he has developed his professional work in health institutions of international reference, where the Women's Hospital Emergency Room in the United States stands out.

Among his main contributions, he has contributed to the optimal recovery of multiple patients suffering from critical conditions such as Obstructive Sleep Apnea, Migraines or Circadian Rhythm Disorders. Likewise, he has been in charge of promoting the development of clinical treatment guidelines for the effective approach to Headache, Restless Legs Syndrome and Narcolepsy.

On the other hand, he balances this work with his facet as a Clinical Researcher. In fact, he has published several books for the medical community on areas such as Cardiovascular Emergencies. In this sense, he also has a wide production of specialized articles on subjects such as the analysis of Ischemic Cardiac Symptoms, cutting-edge therapies to alleviate Neuropathic Pain and therapeutic innovations for people with Insomnia. His work has helped to significantly advance the understanding and treatment of these complex pathologies, greatly benefiting both users and specialists.

Firmly committed to clinical excellence, he has participated as a speaker in renowned Conferences, Symposia and Workshops on a global scale. In this way, he has shared his solid knowledge of the most sophisticated treatments for the management of Cranial Discomfort. In tune with this, he has also served as a keynote speaker at various Medical Seminars, where he has offered a detailed insight into the latest advances in booming fields such as Neurology. As such, he has increased public awareness regarding Neurological Diseases and reduced stigmas that lead to misperceptions.



Dr. Joshua, Marc Kosowsky

- Clinical Director at Brigham and Women's Hospital Emergency Room in Boston, United States
- Director of Patient Experience and Provider Engagement at Brigham and Women's Hospital Emergency Room
- Director of the Headache Center at Massachusetts General Hospital
- Director of Clinical Training at Harvard Medical School in Boston
- Clinical Consultant at Guidepoint Global in New York, United States
- Clinical Consultant at Gerson Lehrman Group in New York
- Medical Trainer at Huron Consulting Group in Illinois, United States
- Medical Trainer at Studer Group in Gulf Breeze, Florida, United States
- Residency in Emergency Medicine at the University of Cincinnati College of Medicine
- M.D. from Harvard Medical School Bachelor of Science in Medical Sciences from Harvard Medical School
- Member of:
 - American Headache Society
 - American Society of Sleep Medicine

“

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

Management



Dr. Antonio Cardenas Cruz

- Head of the Intensive Care Medicine Department, Motril Hospital
- Director of the Clinical Unit of Critical Care and Emergency Management of the Poniente University Hospital
- Institute Director of Continuing Education of the Andalusian Society of Intensive Care Medicine and Coronary Universities
- Training Program Director for Life Support Trainers of the IAVANTE Line of the Progreso y Salud Foundation of the Consejería de Salud y Consumo de la Junta de Andalucía (Andalusian Regional Government)
- Training Program Director for Sedation the IAVANTE Line of the Progreso y Salud Foundation of the Consejería de Salud y Consumo de la Junta de Andalucía (Andalusian Regional Government)
- Head of Critical Care and Emergency Department, Hospital Universitario de Poniente
- Professor of Medicine
- Degree in Medicine and Surgery from the UGR
- PhD in Medicine and Surgery, UGR
- Specialist in Intensive Care Medicine

Professors

Dr. Curiel Balsera, Emilio

- ♦ Specialist in Intensive Care Medicine
- ♦ Section Chief of the Coronary Unit of the ICU at the Regional University Hospital of Malaga
- ♦ Ph.D. in Medicine, University of Malaga
- ♦ Graduate in Medicine and Surgery from the University of Malaga

Dr. Fernández Zamora, María Dolores

- ♦ Specialist in Intensive Care Medicine at the Regional University Hospital of Malaga
- ♦ Specialist in Acute Cardiac Unit and Postoperative Cardiac Surgery
- ♦ Specialist in Intensive Care Medicine
- ♦ Advanced Respiratory Arrest Instructor
- ♦ Researcher in the Ariam Registry
- ♦ Degree in Medicine and Surgery from the University of Granada

Ms. Muñoz Caballero, María Ángeles

- ♦ Nurse of Intensive Care Unit at the Poniente University Hospital
- ♦ Official Master's Degree in Gender and Health from the Rey Juan Carlos University
- ♦ Graduate in Nursing from the University of Almeria
- ♦ Member of the CPR hospital commission

Dr. Molina Díaz, Hugo

- ♦ Specialist in Intensive Care Medicine
- ♦ Medical Specialist in Intensive Care Medicine at the Regional University Hospital of Malaga
- ♦ Intensive Care Physician at the Hospital Quirón Marbella
- ♦ Specialist in Intensive Care Medicine at the Hospital Dr. Gálvez
- ♦ Intensive Care Physician at the Hospital CHIP
- ♦ Intensive Care Medicine Specialist at Hospital Quirón Málaga
- ♦ Degree in Medicine from the University of Seville
- ♦ Advanced Expert in Intensive Care by the Health Quality Agency of Andalusia

Dr. Gómez Gallego, Guillermo

- ♦ Specialist in Intensive Care Medicine
- ♦ Expert Physician in the Area of Intensive Care Medicine at the Regional University Hospital of Malaga
- ♦ Chief of Service of Intensive Care Medicine at the Private Comprehensive Hospital Complex
- ♦ Intensive Care Physician at QuironSalud Malaga Hospital
- ♦ Specialist in Intensive Care Medicine at Hospital QuironSalud Marbella
- ♦ Intensive Care Physician at Gálvez Hospital
- ♦ External Rotation at Jackson Memorial Hospital in Miami
- ♦ Professional Master's Degree in Bioethics from the Andalusian School of Public Health
- ♦ Degree in Medicine and Surgery from the University of Granada
- ♦ Postgraduate Diploma in Non Invasive Mechanical Ventilation by the International University

04

Structure and Content

Designed by an experienced teaching team, this syllabus will enable students to adequately distinguish both physiological and anatomical elements that condition Life Support actions in pregnant patients. In this line, the syllabus will delve into the epidemiological bases of Cardiorespiratory Arrest, emphasizing the management of technical and human resources. In addition, the key aspects to perform *perimortem* cesarean section in an optimal way will be addressed. Students will have within their reach the most advanced control systems, including automatic external defibrillators.



“

With this qualification, you will get to delve in a dynamic way in the most used techniques in perimortem cesarean sections”

Module 1. Advanced Life Support in the Pregnant Woman

- 1.1. Advanced Life Support in Pregnant Women: International Standardization
 - 1.1.1. Advanced Life Support in Pregnant Wom
 - 1.1.2. Physiology
 - 1.1.3. Pathophysiology
- 1.2. Epidemiology
 - 1.2.1. Epidemiological Analysis of CRP in Pregnant Women
 - 1.2.2. Prediction Scales
 - 1.2.3. Prognosis Scales
- 1.3. Life Support (LS) in the Pregnant Woman. Identification of Cardiorespiratory Arrest (CRA)
 - 1.3.1. Identification of CRA in the Pregnant Woman
 - 1.3.2. SV Techniques
 - 1.3.3. Airway Obstruction in the Pregnant Woman
- 1.4. VAS in the Pregnant Woman. Specific Control Techniques
 - 1.4.1. Specific Techniques for Airway Control and Ventilation
 - 1.4.2. Circulation Control Techniques
 - 1.4.3. Arrhythmia Control
- 1.5. Differentiating Elements of CRP in Pregnant Women
 - 1.5.1. CRA Due to Defibrillable Rhythms
 - 1.5.2. CRA Due to Non-defibrillable Rhythms
 - 1.5.3. Identification of Reversible Causes of CRA
- 1.6. Special Actions
 - 1.6.1. Surgical Control
 - 1.6.2. Use of REBOA
 - 1.6.3. ECMO-CPR
- 1.7. Advanced Life Support Equipment (ALS). Technical and Human Resources
 - 1.7.1. ALS Equipment
 - 1.7.2. *Permortem* Caesarean Section Equipment
 - 1.7.3. Technical Resources



- 1.8. *Perimortem* Cesarean Section
 - 1.8.1. *Perimortem* Cesarean Section
 - 1.8.2. Indications
 - 1.8.3. Technical Aspects and Timing
- 1.9. International Medical-Legal Aspects
 - 1.9.1. International Medical-Legal Aspects
 - 1.9.2. Ethical Aspects
 - 1.9.3. International Legal Framework
- 1.10. Organization of Technical and Human Resources
 - 1.10.1. Distribution of Technical Resources
 - 1.10.2. Distribution of Human Resources
 - 1.10.3. Overall Action Protocol

“

TECH presents an exclusive program, unique in its style, that will help you, in just 6 weeks, to take a leap in your profession. Enroll now!”

05

Methodology

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

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



“

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

At TECH we use the Case Method

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:

1. 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

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

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

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



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

With this methodology, more than 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.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



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.



06 Certificate

The Postgraduate Certificate in Advanced Life Support in Pregnant Women guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University.



“

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

This program will allow you to obtain your **Postgraduate Certificate in Advanced Life Support in Pregnant Women** 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** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Certificate in Advanced Life Support in Pregnant Women

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development languages
virtual classroom



Postgraduate Certificate

Advanced Life Support in Pregnant Women

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

Postgraduate Certificate

Advanced Life Support
in Pregnant Women