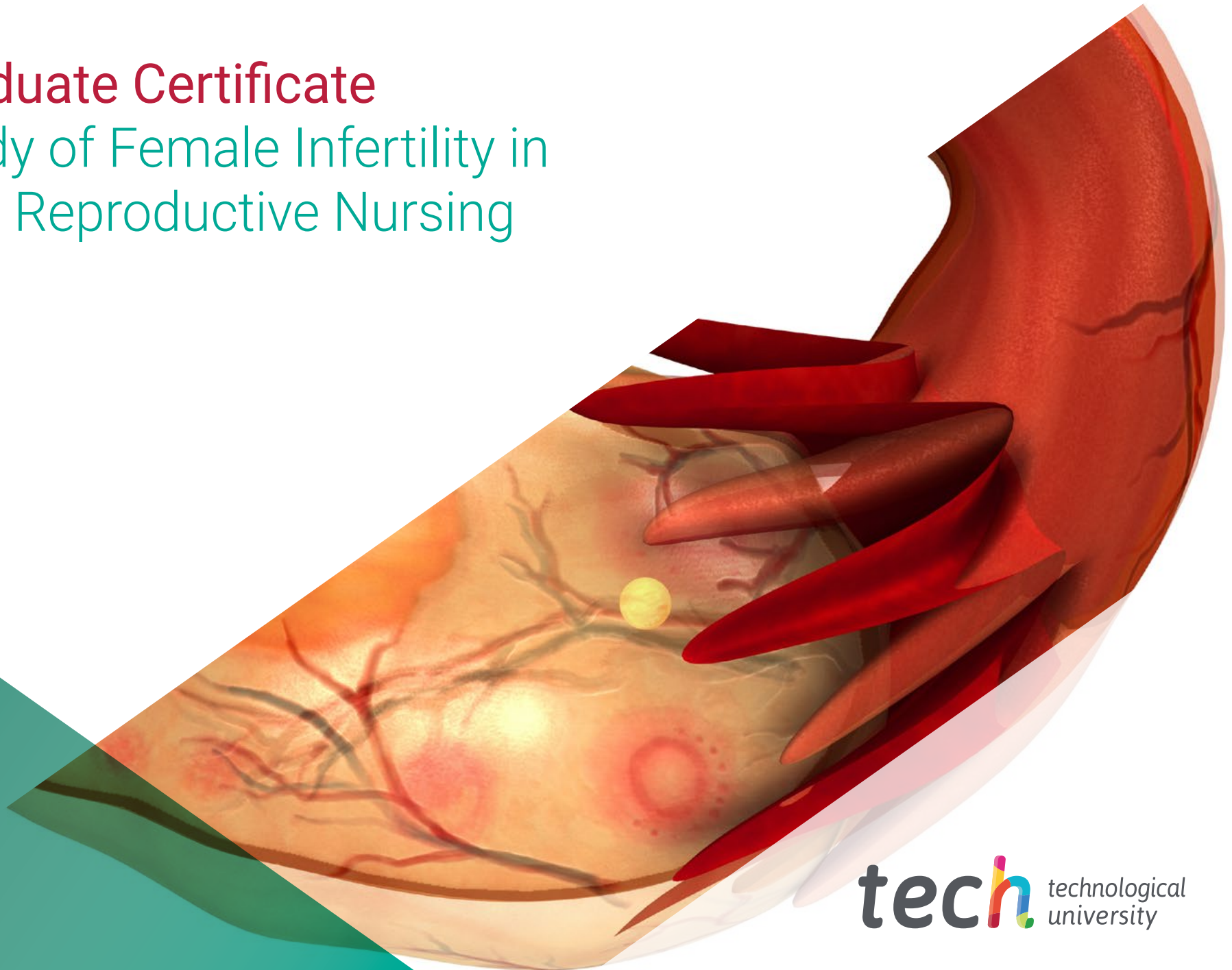


# Postgraduate Certificate

## The Study of Female Infertility in Assisted Reproductive Nursing





## Postgraduate Certificate

### The Study of Female Infertility in Assisted Reproductive Nursing

Course Modality: **Online**

Duration: **6 weeks**

Certificate: **TECH Technological University**

Official N° of hours: **150 h.**

Website: [www.techtute.com/in/nursing/postgraduate-certificate/study-female-infertility-assisted-reproductive-nursing](http://www.techtute.com/in/nursing/postgraduate-certificate/study-female-infertility-assisted-reproductive-nursing)

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# 01

# Introduction

The study of female infertility in Assisted Reproduction Units sets in motion the care activity in many fields: from the psychological, which will be applied in dealing with the patient from his first arrival at the clinic, to the more practical in the protocols and techniques that are developed. The nursing professional in this context requires a very complete education in order to be able to competently work in any Assisted Reproduction Unit.

This Postgraduate Certificate will provide you with the qualifications you need to compete among the best in today's job market.



A close-up, macro photograph of a glass petri dish. A thin, metallic pipette tip is positioned above the dish, with a small amount of clear liquid being dispensed into it. The background is blurred, showing what appears to be a laboratory setting. The image is partially obscured by a dark green geometric overlay in the top right corner.

“

*A highly qualified Postgraduate Certificate that prepares the nursing professional to act with safety and solvency in the Study of Female Infertility"*

In this very complete Postgraduate Certificate you will begin the approach to the study of infertility in women from the basics. By means of the clinical history, the nursing student will begin by identifying the most important factors involved in female infertility. She will be able to discern the importance of anamnesis of toxic factors, problems in sexuality or hereditary history of importance for infertility, and will be able to carry out patient education.

Once this is clear, we will study in depth the most frequent disorders that cause female infertility, as well as the initial and complementary tests that need to be requested for an adequate study. With this, our nursing students will be able to easily explain to the patient what the tests consist of, why they are requested, how they are performed and what the average waiting time is.

The student will also learn about polycystic ovary syndrome, endometriosis, implantation failure and repeated miscarriage, among other pathologies. A compendium of knowledge that will allow the nursing professional to perform their function with the greatest success and the best results.



*With this Postgraduate Certificate you will be able to balance a high-intensity program with your personal and professional life, achieving your goals in a simple and real way”*

This **Postgraduate Certificate in The Study of Female Infertility in Assisted Reproductive Nursing** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ The latest technology in online teaching software
- ◆ A highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ◆ Practical cases presented by practising experts
- ◆ State-of-the-art interactive video systems
- ◆ Teaching supported by telepractice
- ◆ Continuous updating and recycling systems
- ◆ Autonomous learning: full compatibility with other occupations
- ◆ Practical exercises for self-evaluation and learning verification
- ◆ Support groups and educational synergies: questions to the expert, debate and knowledge forums
- ◆ Communication with the teacher and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection
- ◆ Supplementary documentation databases that are permanently available, even after the program

“

*A Postgraduate Certificate that will enable you to work in the Study of Female Infertility in Assisted Reproduction, with the solvency of a high level professional”*

Our teaching staff is made up of professionals from different fields related to this specialty. In this way, TECH makes sure to offer the educational update objective it intends. A multidisciplinary team of professionals educated and experienced in different environments, who will cover the theoretical knowledge in an efficient way, but, above all, will put the practical knowledge derived from their own experience at the service of the course: one of the differential qualities of this program.

This mastery of the subject matter is complemented by the effectiveness of the methodological design of this Postgraduate Certificate in The Study of Female Infertility in Assisted Reproductive Nursing. Developed by a multidisciplinary team of experts, it integrates the latest advances in educational technology. In this way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your education.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as an eminently practical process. To achieve this remotely, TECH will use telepractice: with the help of an innovative interactive video system, and Learning from an Expert, the student will be able to acquire the knowledge as if he were facing the scenario he is learning at that moment. A concept that will allow students to integrate and memorize what they have learnt in a more realistic and permanent way.

*The learning of this Postgraduate Certificate is developed through the most advanced teaching methods in online teaching to guarantee that your effort will have the best possible results.*

*Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: “Learning from an Expert”.*



02

# Objectives

The objective of this program is to provide nursing professionals with the necessary knowledge and skills to perform their activity in the field of Assisted Reproduction. Through a work approach that is totally adaptable to the student, this Postgraduate Certificate will progressively lead the student to acquire the skills that will propel them to a much higher professional level.





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*Become one of the most sought after professionals of the moment, with this Postgraduate Certificate in The Study of Female Infertility in Assisted Reproductive Nursing"*



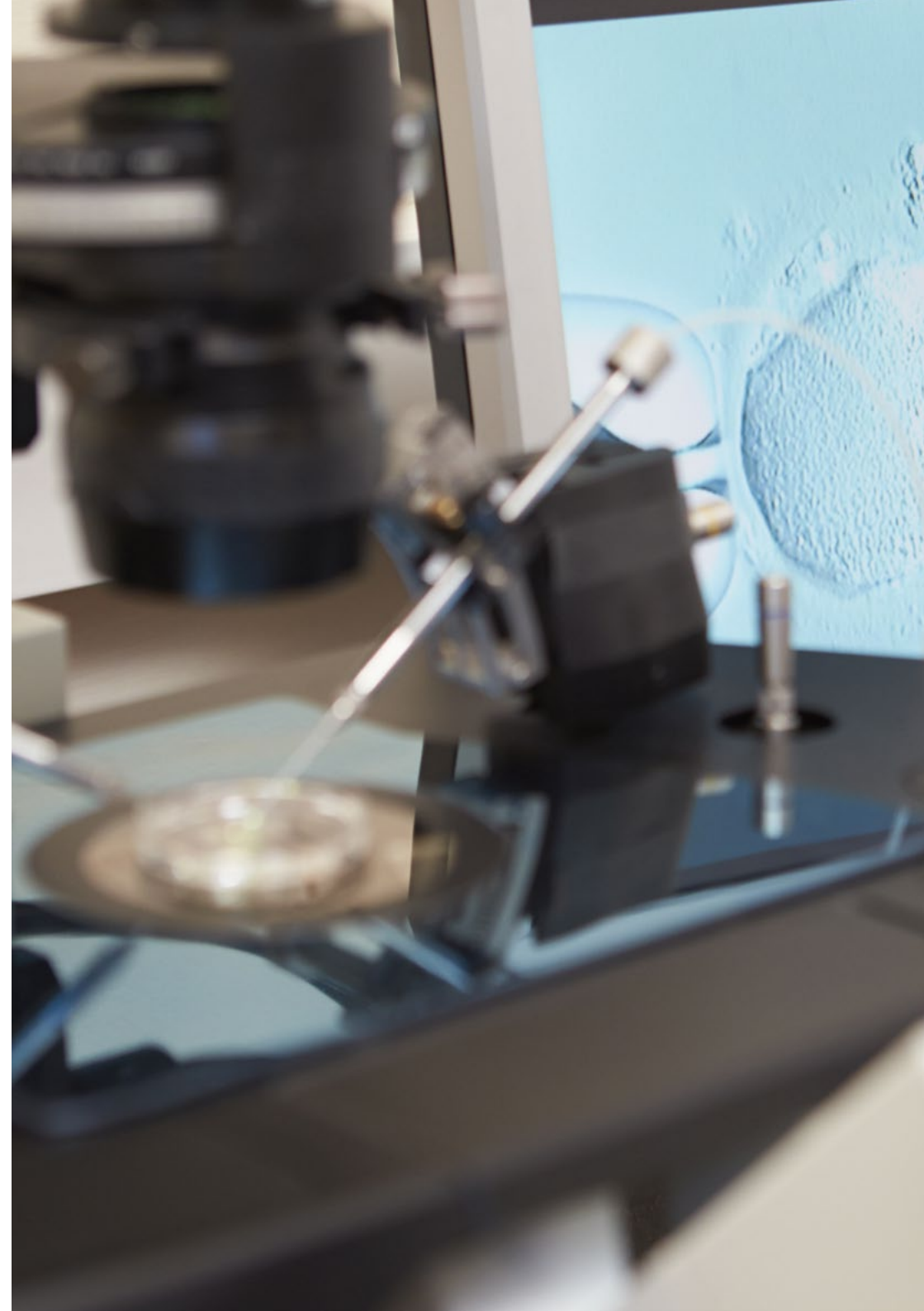
## General objectives

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- ◆ Broaden specific knowledge of each of the fields of work in assisted reproduction
- ◆ Enable students to be interdependent and problem solvers
- ◆ Facilitate good performance of nursing professionals in order to provide the best care throughout the process



*A boost to your professional profile that will give you the competitiveness of the best-prepared professionals in the labor market"*





## Specific objectives

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- ◆ Know the importance of anamnesis for the identification of toxic habits, stress, sexual problems and hereditary antecedents related to infertility in women
- ◆ Know what the basic initial study of infertility consists of in order to be able to explain it to the patient in clear and simple terms
- ◆ Know the complementary tests for the study of women in consultation depending on the specific alterations of each patient in order to individualize each patient depending on the altered factors present
- ◆ Know the most frequent disorders in women with infertility

03

# Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.



“

*An impressive teaching staff, made up of professionals from different fields of expertise, will be your teachers during the program: a unique opportunity not to be missed”*

## Management



### Ms. Agra Bao, Vanesa

- Operating room supervisor at EVA FERTILITY-DORSIA
- Degree in Nursing University of La Coruña
- Postgraduate Diploma in Legal Nursing. UNED
- Official Master's Degree in Occupational Risk Prevention. USP-CEU
- Master's Degree in Physical Activity and Health. Miguel de Cervantes University
- Instructor of Basic Life Support and DESA. SEMICYUC
- Postgraduate Diploma in Surgical Anesthesiology for Nursing. CEU Cardenal Herrera University
- Biosafety and Occupational Risk Prevention in Microbiology Laboratories. SEM
- The male in Assisted Reproduction EVA FERTILITY CLINICS
- Biosafety Laboratories and Research Animal Facilities with Biocontainment Level 3. SEGLA
- Nursing action in traumatic emergencies, poisoning and other urgent situations. DAE



### Ms. Boyano Rodríguez, Beatriz

- Embryologist at Clínicas EVA, Madrid
- Postgraduate Diploma in Clinical Genetics, Universidad de Alcalá de Henares, Madrid
- Master's Degree in Assisted Human Reproduction Biotechnology, IVI and University of Valencia
- Postgraduate in Medical Genetics, University of Valencia, Spain
- Degree in Biology, Universidad de Salamanca
- Member of the Association for the Study of Reproductive Biology
- Member of the Spanish Association of Human Genetics

## Professors

### Aldama, Perla

- ◆ Gynecologist specialized in Assisted Reproduction Egg bank. Eva Fertility Clinics
- ◆ Medical Surgeon School of Medicine UNAM. Mexico City
- ◆ Master's Degree in Human Reproduction Universidad Complutense de Madrid Spanish Fertility Society Madrid, Spain
- ◆ Grade Human Reproduction Hospital Juarez de Mexico City Mexico
- ◆ Basic and advanced colposcopy Hospital Juarez de Mexico City Mexico
- ◆ Grade Gynecology and Obstetrics Gynecology and Obstetrics Hospital 4 Mexico City
- ◆ Researcher with publications and papers in scientific congresses and prestigious scientific journals.



# 04

# Structure and Content

The contents of taught have been developed by the different experts on this course, with a clear purpose: to ensure that our students acquire each and every one of the necessary skills to become true experts in this field.

A complete and well-structured program that will take you to the highest standards of quality and success.







“

*A program created and directed by professional experts in Assisted Reproduction that make this Postgraduate Certificate a unique opportunity for professional growth"*

## Module 1. The Study of Female Infertility

- 1.1. Initial Study
  - 1.1.1. Introduction
  - 1.1.2. Basis of the Study According to Factors
  - 1.1.3. Medical History
  - 1.1.4. Physical Exploration
  - 1.1.5. Basic Infertility Studies
  - 1.1.6. Complementary Studies According to Altered Factor
- 1.2. Ovarian Factor
  - 1.2.1. Age
    - 1.2.1.1. Age and Ovarian Reserve
    - 1.2.1.2. Early Ovarian Failure
    - 1.2.1.3. Studies to Assess Ovarian Reserve
      - 1.2.1.3.1. AMH
      - 1.2.1.3.2. RFA
      - 1.2.1.3.3. Other Hormones
  - 1.2.2. Anovulation
    - 1.2.2.1. What is Anovulation
    - 1.2.2.2. Clinical Manifestations
    - 1.2.2.3. Importance of the Luteal Phase
    - 1.2.2.4. Causes
      - 1.2.2.4.1. Polycystic Ovary Syndrome
      - 1.2.2.4.2. Most Frequent Hormonal Disorders
      - 1.2.2.4.3. Other Causes
    - 1.2.2.5. Studies to Assess Ovulation
      - 1.2.2.5.1. Gynecological Hormonal Profile
      - 1.2.2.5.2. Other Hormones
        - 1.2.2.5.2.1. Thyroid Hormones
        - 1.2.2.5.2.2. Prolactin
        - 1.2.2.5.2.3. Androgens
      - 1.2.2.5.3. Luteal Phase Progesterone





- 1.3. Uterine and Tubal Factor
  - 1.3.1. Uterus
    - 1.3.1.1. Uterus and Endometrium
    - 1.3.1.2. Müllerian Malformations
    - 1.3.1.3. Myomas and Polyps
    - 1.3.1.4. Asherman's Syndrome
    - 1.3.1.5. Uterine Factor and Implantation Failure
    - 1.3.1.6. Uterine Factor and Recurrent Abortion
  - 1.3.2. Fallopian Tubes
    - 1.3.2.1. Tubal Obstruction
    - 1.3.2.2. Pathology
    - 1.3.2.3. Surgical
    - 1.3.2.4. Endometriosis
    - 1.3.2.5. Others
  - 1.3.3. Research
    - 1.3.3.1. 2D and 3D Ultrasound
    - 1.3.3.2. Hysteroscopy and Others
      - 1.3.3.2.1. Hysteroscopy
      - 1.3.3.2.2. Hysterosalpingography
      - 1.3.3.2.3. Hysterosonography
      - 1.3.3.2.4. Hysterolaparoscopy
      - 1.3.3.2.5. MRI
- 1.4. Infectious Factor
  - 1.4.1. Infections and Infertility
  - 1.4.2. Most Frequent Infections
  - 1.4.3. Pelvic Inflammatory Disease
  - 1.4.4. Hydrosalpinx
  - 1.4.5. Research
    - 1.4.5.1. Crops and Specialty Crops
    - 1.4.5.2. PCR and Others

- 1.5. Genetic Factor
  - 1.5.1 Genetics Today
  - 1.5.2 Most Frequent Genetic Disorders
    - 1.5.2.1. Turner Syndrome
    - 1.5.2.2. Fragile X Syndrome
    - 1.5.2.3. Hereditary Thrombophilias
    - 1.5.2.4. Other Mutations
  - 1.5.3 Screening Studies
- 1.6. Immunological Factor
  - 1.6.1 The Immune System and Fertility
  - 1.6.2 Main Disorders
    - 1.6.2.1. Antiphospholipid Antibody Syndrome
    - 1.6.2.2. Systemic Lupus Erythematosus (SLE)
    - 1.6.2.3. Others
  - 1.6.3 Key Immunological Tests
- 1.7. Endometriosis
  - 1.7.1 Endometriosis Today
  - 1.7.2 Implications in Fertility
  - 1.7.3 The Patient with Endometriosis
  - 1.7.4 Clinical and Laboratory Study
- 1.8. Implantation Failure and Recurrent Abortion
  - 1.8.1 Failure of Implantation
    - 1.8.1.1. Definition
    - 1.8.1.2. Main Causes
    - 1.8.1.3. Study





- 1.8.2 Recurrent Miscarriage
  - 1.8.2.1. Definition
  - 1.8.2.2. Main Causes
  - 1.8.2.3. Study
- 1.9. Special Considerations
  - 1.9.1 Cervical Factor
    - 1.9.1.1. Importance of Cervical Physiology
    - 1.9.1.2. Postcoital Test
  - 1.9.2 Sexology
    - 1.9.2.1. Vaginismus
  - 1.9.3 Psychological Causes
  - 1.9.4 Infertility of Unknown Origin
    - 1.9.4.1. Definition
    - 1.9.4.2. What Should Be Done?
  - 1.9.5 Integral Approach
- 1.10. Conclusions



*A comprehensive teaching program, structured in well-developed teaching units, oriented towards learning that is compatible with your personal and professional life”*

# 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 Nursing School we use the Case Method

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

*With TECH, nurses can experience a learning methodology 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, in an attempt to recreate the real conditions in professional nursing 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. Nurses who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
2. The learning process has a clear focus on practical skills that allow the nursing professional to better integrate knowledge acquisition into the hospital setting or primary care.
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 case studies with a 100% online learning system based on repetition combining a minimum of 8 different elements in each lesson, which is a real revolution compared to the simple study and analysis of cases.



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

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

With this methodology we have trained more than 175,000 nurses with unprecedented success in all specialities regardless of practical workload. 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 really 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.



### Nursing Techniques and Procedures on Video

We introduce you to the latest techniques, to the latest educational advances, 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 them as many times as you want.



### Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

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



### Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





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

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



#### Testing & Retesting

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



#### Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



#### Quick Action Guides

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



06

# Certificate

The Postgraduate Certificate in The Study of Female Infertility in Assisted Reproductive Nursing guarantees you, in addition to the most rigorous and up-to-date training, access to a Postgraduate Certificate issued by TECH Technological University.





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*Successfully complete this program  
and receive your university degree  
without travel or laborious paperwork”*

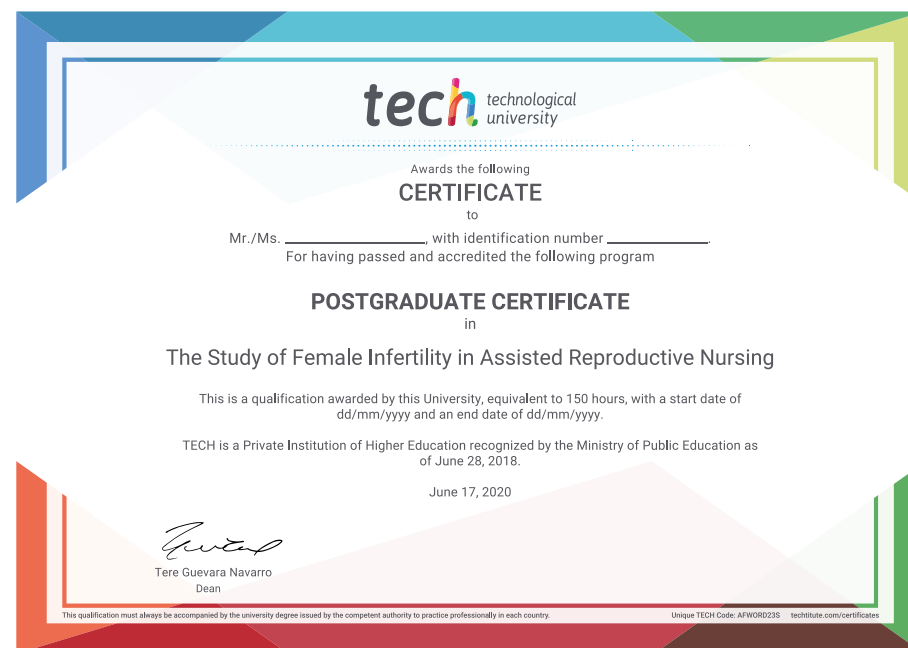
This **Postgraduate Certificate in The Study of Female Infertility in Assisted Reproductive Nursing** contains the most complete and up-to-date scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery\*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in The Study of Female Infertility in Assisted Reproductive Nursing**

Official N° of hours: **150 h.**



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



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



## Postgraduate Certificate

The Study of Female  
Infertility in Assisted  
Reproductive Nursing

Course Modality: Online

Duration: 6 weeks

Certificate: TECH Technological University

Official N° of hours: 150 h.

# Postgraduate Certificate

## The Study of Female Infertility in Assisted Reproductive Nursing

