

Postgraduate Certificate Diabetes and Technology





Postgraduate Certificate Diabetes and Technology

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/pk/medicine/postgraduate-certificate-diabetes-technology

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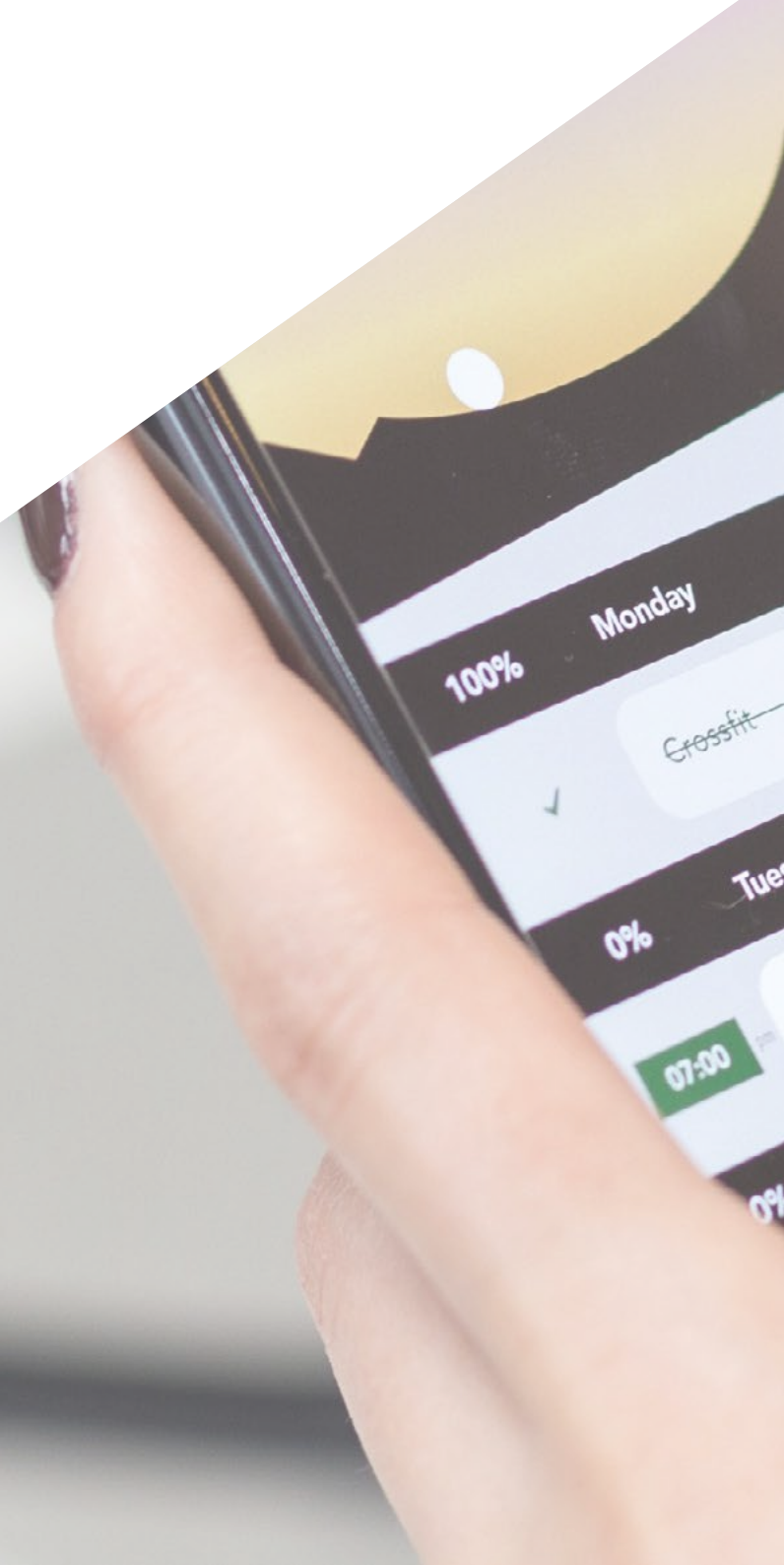
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01

Introduction

In this Postgraduate Certificate course, the available evidence on capillary and interstitial blood glucose monitoring is presented, as well as the existing devices (glucose sensors) and those under investigation are collected.

It describes, in detail, how to interpret the results obtained, and introduces new concepts of glycemic control such as glycemic variability, time in range, among other issues.





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This program is the best option you can find to specialize in diabetes”

Diabetes is a complex, chronic process that requires specific knowledge and skills for a comprehensive approach that goes beyond glycemic control.

This Postgraduate Certificate in Diabetes and Technology presents a global and complete vision of this disease that serves for the proper management of patients with diabetes at any level of care.

This is a unique and innovative training program, based on an up-to-date description of the epidemiological situation of diabetes. This program delves into the complex pathophysiology of the disease, in the integral evaluation of its acute and chronic complications, from a specialized point of view, and in its integral treatment.

Its contents cover the most innovative aspects of diabetes, such as the implementation of technology to control and treat this disease, and the most innovative areas in the research of new therapeutic approaches. All this, without forgetting the crucial role of diabetes education for the control of the disease.

This program is unique in that it includes a broad view of the disease across all patient ages and special situations. It also delves into the social aspects of diabetic patients' lives that require specific knowledge so that they can be addressed.

A quality training with which you will be able to stand out in a highly competitive sector and improve your skills and knowledge in the field.

This **Postgraduate Certificate in Diabetes and Technology** contains the most complete and up-to-date scientific program on the market. The most important features include:

- ◆ Practical cases presented by experts in Diabetes
- ◆ 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
- ◆ New developments in Diabetes
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Special emphasis on innovative methodologies in Diabetes
- ◆ 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



*Improve the quality of care
for your patients with this
innovative diabetes program"*

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This Postgraduate Certificate is the best investment you can make in the selection of a professional program for two reasons: in addition to upgrading your knowledge in Diabetes, you will obtain a diploma from TECH Technological University"

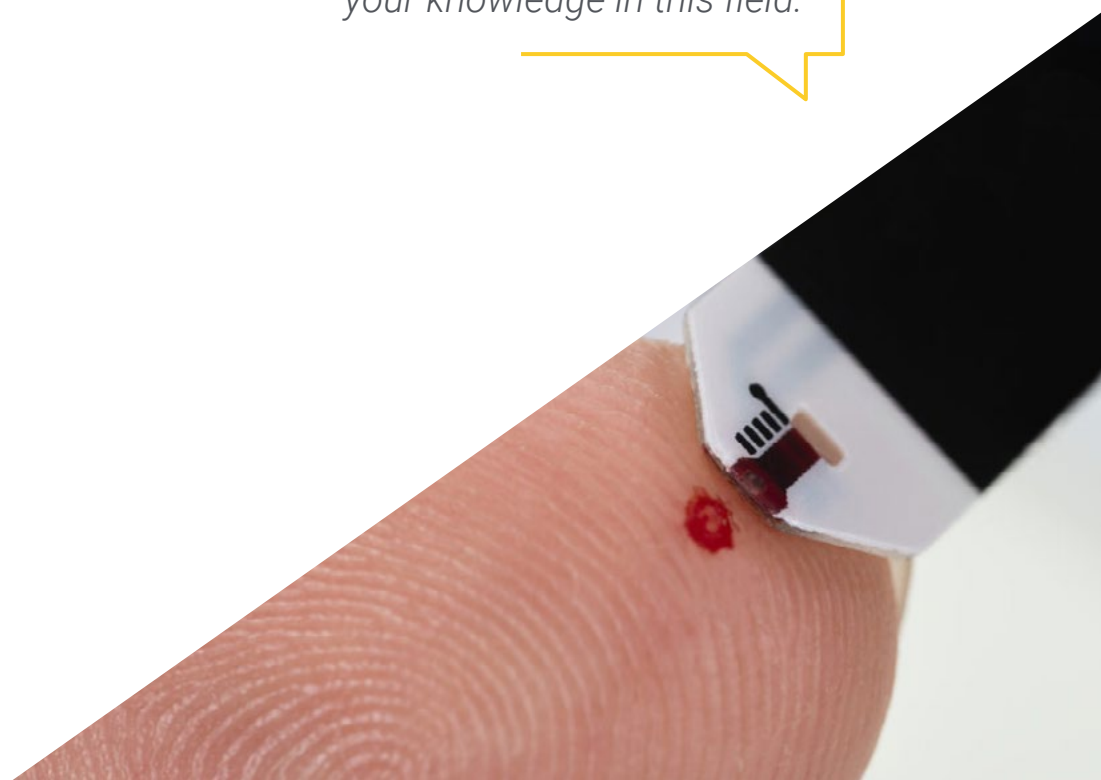
The teaching staff includes professionals from the field of Diabetes, who bring their experience to this training program, as well as renowned specialists from leading societies and prestigious universities.

Its 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 immersion education programmed to learn in real situations.

The design of this program focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts in Diabetes with extensive medical experience.

Take the step and join our team. You will find the best educational material to enhance your studies.

This 100% online Postgraduate Certificate will allow you to balance your studies with your professional work while increasing your knowledge in this field.



02 Objectives

The Postgraduate Certificate in Diabetes and Technology is oriented to facilitate the performance of the professional dedicated to medicine with the latest advances and newest treatments in the sector.





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This is your opportunity to learn about the latest treatments in Diabetes”



General Objectives

- ◆ Act as a leading professional specialized in Diabetes
- ◆ Acquire the knowledge and skills necessary to be able to handle the different blood glucose monitoring devices, as well as insulin injection devices (continuous insulin perfusion pumps) and to be able to interpret the data resulting from these devices



A unique specialization course that will enable you to acquire superior education for development in this field"





Specific Objectives

- ◆ Acquire the knowledge of the use of technology in diabetes
- ◆ Know what self-monitoring of capillary blood glucose means and its interpretation in order to manage patient data and optimize diabetes control
- ◆ Learn about continuous glucose monitoring
- ◆ Know the available glucose monitoring devices and their use
- ◆ Acquire the skills to be able to conduct an educational program on glucose sensors.
- ◆ Acquire the knowledge and skills necessary for the interpretation of the results of continuous glucose monitoring systems
- ◆ Learning to read an APG report
- ◆ Know the subcutaneous insulin injection devices, their handling and related problems in order to be able to solve them in the diabetic patient who is a user of these devices.
- ◆ Acquire the necessary knowledge for the handling of continuous glucose monitoring devices and insulin perfusion pumps in infancy
- ◆ Acquire the necessary knowledge for the use of continuous glucose monitoring devices and insulin perfusion pumps in pregnancy
- ◆ Acquire basic knowledge about what an artificial pancreas is, what types there are and what they provide to patients with type 1 diabetes
- ◆ Know the mobile internet applications available for the diabetic patient
- ◆ Learn about the internet and mobile applications available for the diabetic patient
- ◆ Learning to apply technology in new forms of medical care for diabetic patients (e-consultation, telemedicine, online educational programs, etc.)

03

Course Management

The program's teaching staff includes leading experts in Diabetes who contribute their vast work experience to this training program. Additionally, other recognized specialists participate in its design and preparation which means that the program is developed in an interdisciplinary manner.





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*Leading professionals in the field
have come together to teach you
the latest advances in Diabetes”*

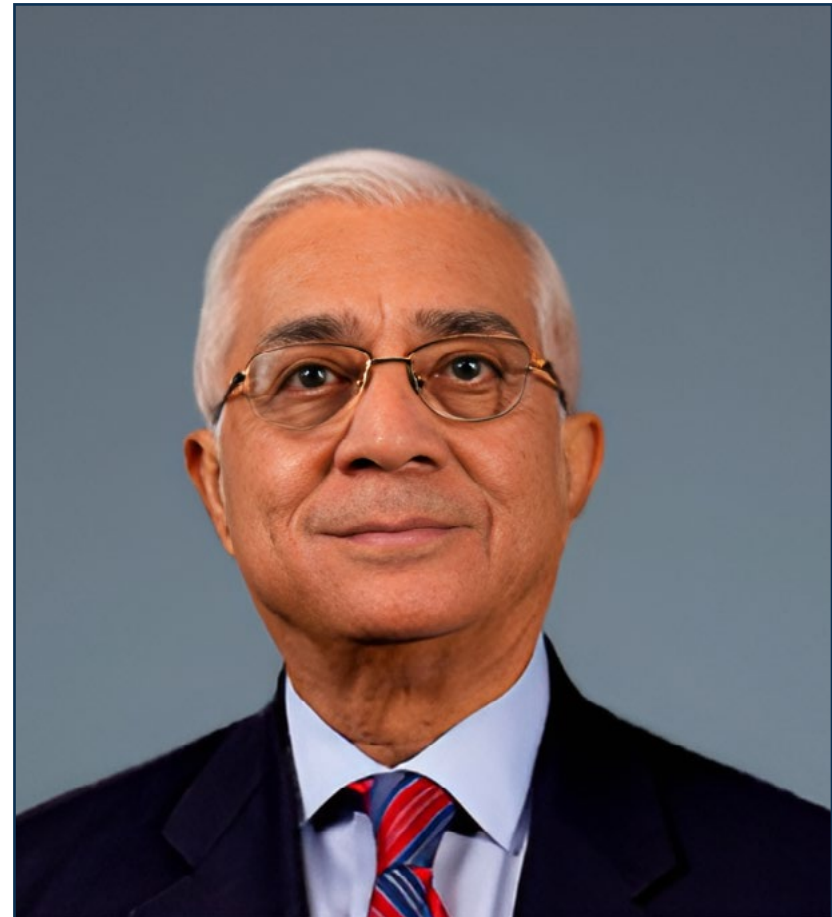
International Guest Director

More than **four decades of experience** in **Diabetes** research and clinical practice endorse the outstanding career of Dr. Om Ganda. He was part of one of the **most relevant trials in this field**, the 1993 DCCT, which demonstrated the importance of glucose control in the prevention of complications in type 1 diabetes. Likewise, his numerous contributions to this area have allowed outstanding advances in the optimal control of glucose in patients with Diabetes. In recent years, he has directed his research focus to the study of the effects of Omega-3 fatty acids on cardiovascular health and the improvement of treatments for people who have difficulty maintaining a diet or exercising.

He has accumulated **more than 100 scientific** publications in the area of Diabetes, the most cited being those related to the development of a Comprehensive Plan of Care for Diabetes Mellitus (in collaboration with the American Society of Clinical Endocrinologists), the Insulin Resistance Syndrome or the Treatment of Dyslipidemia and Prevention of Atherosclerosis.

His extensive career has led him to direct, as **Medical Director**, the Joslin Diabetes Center Lipid Clinic, where he has also been **Coordinator of the Endocrinology Consultation Service** and Coordinator of Conferences on Clinical Diabetes and Metabolism. He combines these responsibilities as a Researcher being an active part of the Joslin Research Laboratory.

He is also an Associate Professor of Medicine at Harvard Medical School and has held several Clinical and Research Fellowships at Harvard, Boston Veterans Administration Hospital and Peter Bent Brigham Hospital.



Dr. Ganda, Om

- Director of the Lipid Clinic at Joslin Diabetes Center, Boston
- Coordinator of the Endocrine Consultation Service at Joslin Diabetes Center
- Researcher at Joslin Research Laboratory
- Associate Professor of Medicine at Harvard Medical School
- M.D. from All India Institute of Medical Sciences
- Graduate in Medicine from S.M.S. Medical College of the University of Rajasthan
- *ClinicalFellow* in Endocrinology and Metabolism at the Boston Veterans Administration Hospital and Tufts University School of Medicine
- *ResearchFellow* at Harvard Medical School
- *ResearchFellow* at Peter Bent Brigham Hospital
- Sub-specialty Board Certified in Endocrinology and Metabolism by the American Society of Internal Medicine



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

Management



Dr. González Albarrán, Olga

- ◆ Head of Endocrinology and Diabetes at the Gregorio Marañón University Hospital in Madrid
- ◆ Specialist in Endocrinology and Nutrition
- ◆ Degree in Medicine from the Autonomous University Madrid
- ◆ Doctor with *Cum Laude* and Extraordinary Prize in Medicine from the University of Alcalá de Henares
- ◆ Associate Professor at the Complutense University of Madrid
- ◆ Master's Degree in Clinical Nutrition from the Autonomous University of Madrid
- ◆ Master's Degree in Cardiovascular Risk from McMaster University
- ◆ Master's Degree in Management of Endocrinology Clinical Units, Meléndez Pelayo University
- ◆ Spanish Society of Endocrinology and Nutrition Award

Professors

Dr. Galdón Sanz-Pastor, Alba

- ◆ Physician Specialist in Endocrinology and Nutrition
- ◆ Assistant Physician of the Endocrinology Service of the Gregorio Marañón Hospital
- ◆ Author of several national and international specialized publications
- ◆ Degree in Medicine from the Complutense University of Madrid

Dr. López Guerra, Aurelio

- ◆ Specialist in Endocrinology and Nutrition
- ◆ Assistant Physician of the Endocrinology Service of the Gregorio Marañón University Hospital of Madrid
- ◆ Degree in Medicine, University of Las Palmas de Gran Canaria

Dr. Weber, Bettina

- ◆ Assistant Physician in the Endocrinology Department of the General University Hospital Gregorio Marañón, Madrid
- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ Specialist in Endocrinology and Nutrition

Dr. Brox Torrecilla, Noemi

- ◆ Specialist in Endocrinology and Diabetes at the Gregorio Marañón University Hospital in Madrid
- ◆ Researcher at the Gregorio Marañón Health Research Institute
- ◆ Graduate in Medicine from the University of Castilla-La Mancha

Dr. Pérez López, Gilberto

- ◆ Assistant Physician of Endocrinology and Nutrition, Gregorio Marañón General University Hospital, Madrid
- ◆ Coordinator of the Working Group on Childhood and Adolescent Obesity in the Spanish Society for the Study of Obesity (SEEDO)
- ◆ Medical Director of the Spanish Association of Klinefelter Syndrome
- ◆ Doctorate in Medicine, University of Alcalá
- ◆ Specialist in Endocrinology and Nutrition at the Ramón and Cajal University Hospital
- ◆ Specialist in Pediatrics and its specific areas at the Ramón and Cajal University Hospital
- ◆ University Specialist in Clinical Genetics at the Alcalá University
- ◆ Degree in Medicine from the University of Panama

Dr. Muñoz Moreno, Diego

- ◆ Resident Physician in Endocrinology and Nutrition at the Gregorio Marañón General University Hospital
- ◆ Postgraduate Diploma in the treatment of type 2 diabetes mellitus from the Autonomous University of Barcelona
- ◆ Master's Degree in Endocrine Oncology from the CEU Cardenal Herrera University
- ◆ Degree in Medicine from the University of Alcalá de Henares

Dr. Chacín Coz, Juan Simón

- ◆ Physician Specialist in Endocrinology and Nutrition
- ◆ Endocrinologist at the Fundación Jiménez Díaz University Hospital in Madrid
- ◆ Adjunct Physician at Rey Juan Carlos University Hospital, Madrid
- ◆ Medical Degree from the Central University of Venezuela
- ◆ Member of the Spanish Society of Endocrinology and Nutrition

Dr. Atencia Goñi, José

- ◆ Assistant Physician in the Endocrinology Department of the General University Hospital Gregorio Marañón, Madrid
- ◆ Specialist in Endocrinology and Diabetes at the Gregorio Marañón University Hospital in Madrid
- ◆ Physician at the Hospital Vithas Madrid La Milagrosa
- ◆ Physician at Ruber Internacional Hospital in Madrid
- ◆ Residency in Division of Endocrinology, Metabolism, and Lipids. Emory University, Atlanta
- ◆ Degree in Medicine from the University of Navarra
- ◆ Education in neuroendocrine tumors

04

Structure and Content

The structure of the content has been designed by leading professionals in the Diabetes Sector, with extensive experience and recognized prestige in the profession, backed by the volume of cases reviewed, studied, and diagnosed, and with extensive knowledge of new technologies applied to Diabetes.





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This Postgraduate Certificate contains the most complete and up-to-date scientific program on the market”

Module 1. Diabetes and Technology

- 1.1. Overview of the Use of Technology in Diabetes
- 1.2. Capillary Glycemia Self-Monitoring
- 1.3. Continuous Glucose Monitoring. Glucose Sensors
- 1.4. Insulin and Injection Devices. Insulin Pumps
- 1.5. Artificial Pancreas
- 1.6. Use of Technology in Diabetes in Pregnancy
- 1.7. Use of Technology in Diabetes in Infancy
- 1.8. Diabetes y Big Data
- 1.9. Diabetes and Internet (Web, Apps, etc.)
- 1.10. New Ways to Care for the Diabetes Patient





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This program will allow you to advance in your career comfortably”

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.



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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.

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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 Diabetes and Technology guarantees, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate diploma issued by TECH Technological University.





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

This **Postgraduate Certificate in Diabetes and Technology** 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 Diabetes and Technology**

Official No. 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.



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