

# Professional Master's Degree Diabetes





## Professional Master's Degree Diabetes

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: [www.techtitute.com/in/medicine/professional-master-degree/master-diabetes](http://www.techtitute.com/in/medicine/professional-master-degree/master-diabetes)

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# 01

# Introduction

This refresher program offers Top-Level training in Diabetes, taught by professionals with extensive experience in the sector. This program will enable medical professionals to specialize in this chronic disease that affects all ages and requires very complex treatment and control at any level of care.

A unique opportunity to become a renowned physician specializing in this widespread disease, with the help of practising experts.







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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 Professional Master's Degree in Diabetes presents a global and complete vision of the disease that is useful for adequately managing patients with diabetes at any level of care.

This is a unique and innovative academic program, based on an up-to-date description of the epidemiological situation of diabetes. This program provides an in-depth study of the complex pathophysiology of the disease, the integral evaluation of acute and chronic complications, from a specialized point of view, and its comprehensive 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 as 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 program with which you will be able to stand out in a highly competitive sector and improve your skills and Knowledge of the field.

This **Professional Master's Degree in Diabetes** 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 the self-assessment process can be carried out 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 Professional Master's Degree may be the best investment you can make in the selection of a refresher programme for two reasons: in addition to updating your knowledge of Diabetes, you will obtain a degree from TECH Technological University"*

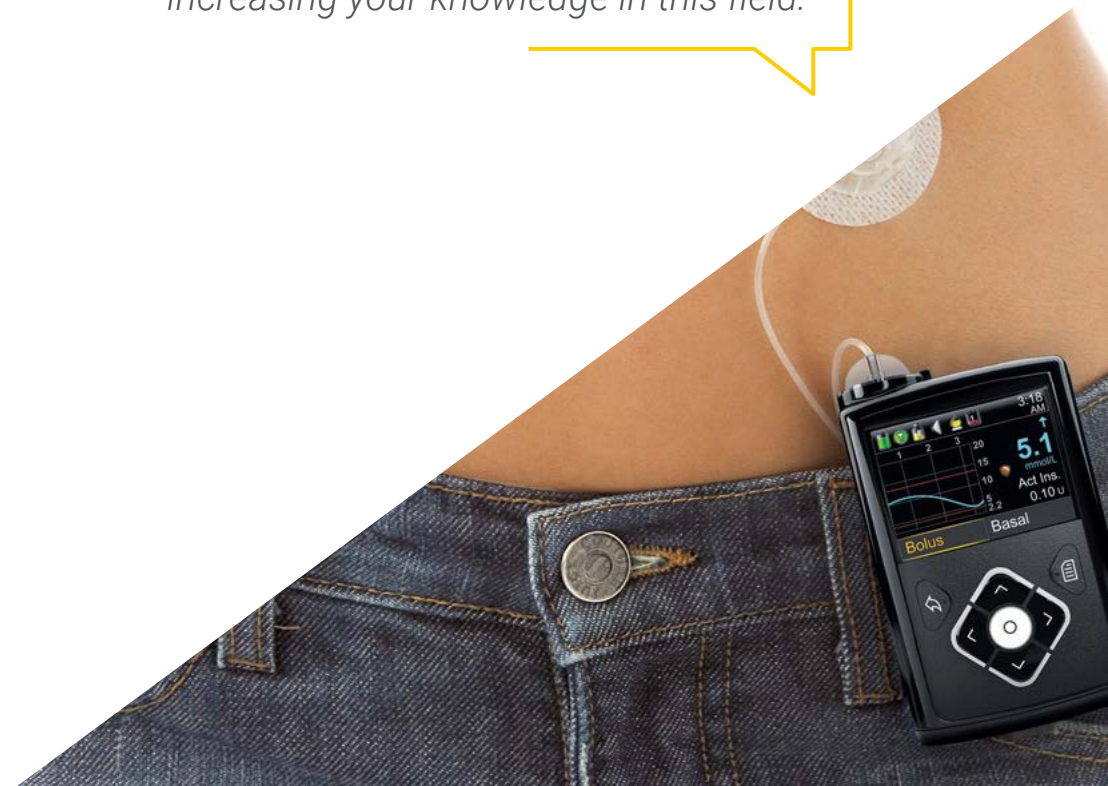
The teaching staff includes professionals from the field of Diabetes, who bring their experience to this specialization program, as well as renowned specialists from leading societies and prestigious universities.

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 training programmed to train in real situations.

The design of this Program focuses on Problem-Based Learning, by means of which the professional will have to try to solve the different situations of Professional Practice, which will be posed throughout the Program. 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 professional master's degree will allow you to combine your studies with your professional work while increasing your knowledge in this field.*



# 02 Objectives

The Professional Master's Degree in Dementia is aimed at facilitating the medical professional's performance with the latest advances and most innovative treatments in the sector.







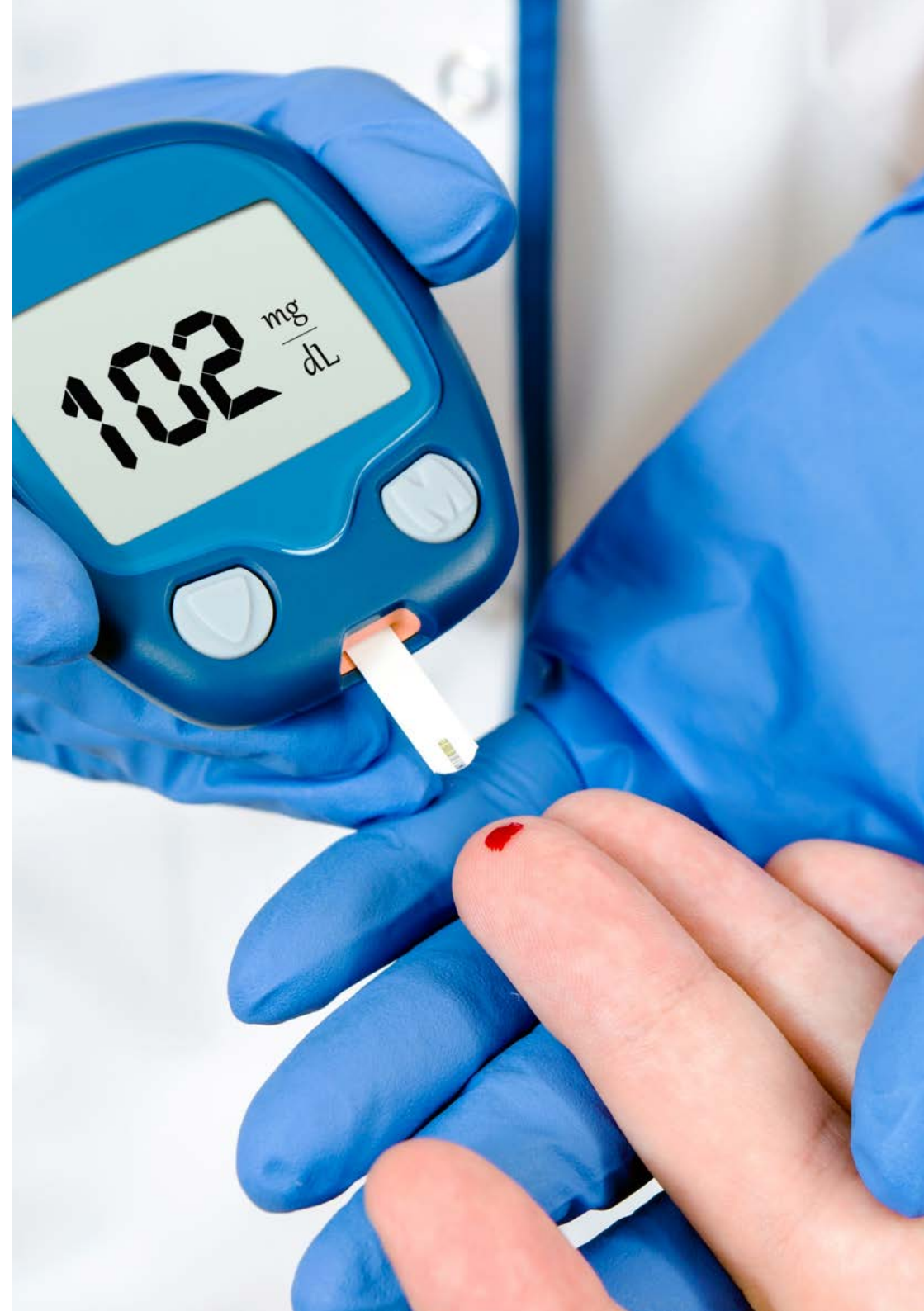
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*This is your opportunity to learn about  
the latest treatments in Diabetes”*



## General Objectives

- ♦ Act as a leading professional specialized in Diabetes
- ♦ Deepen the knowledge related to the importance of diabetes in our environment, the different states of altered glucose metabolism, its classification and diagnostic criteria
- ♦ Deepen the understanding of the complex mechanisms of glycemia regulation; and improve the knowledge of the bases of the physiopathogenesis of type 1 and type 2 diabetes, in order to understand the existing therapeutic approaches and its prevention
- ♦ Acquire the knowledge and skills necessary for a comprehensive assessment of the person with diabetes, with special reference to acute complications of glycemic control
- ♦ Acquire the knowledge and skills necessary to deepen the chronic complications of diabetes, in order to acquire an adequate management of them
- ♦ Know the chronic macrovascular complications related to Diabetes, since they are the main cause of mortality in patients with Diabetes
- ♦ Expand knowledge of the skills necessary for the global treatment (nutritional, exercise, healthy habits and therapeutic measures) of the patient with Diabetes
- ♦ Acquire the necessary knowledge about the pharmacological treatment of type 2 diabetes in order to be able to prescribe the best pharmacological strategy for each patient with type 2 diabetes according to their comorbidities
- ♦ 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
- ♦ Attain the knowledge and skills necessary to expertly deal with the treatment of patients with diabetes in special situations such as the elderly, institutionalized, hospitalized, during travel, and in the rural world and at work
- ♦ Acquire the necessary knowledge and skills of diabetes education, as part of the treatment of diabetes, to facilitate the knowledge, skill and ability necessary for self-management





## Specific Objectives

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### Module 1. The Concept of Diabetes. Epidemiology

- ♦ Expand and acquire the latest skills and news about Diabetes as a chronic, complex and progressive disease
- ♦ Acquire knowledge of the classification of Diabetes and the wide spectrum of etiologies that lead to its development
- ♦ Deepen the epidemiology of type 1 diabetes and its determinants
- ♦ Deepen the epidemiological impact of type 2 diabetes as an epidemic in our environment
- ♦ Acquire the knowledge and skills to detect diabetes early in the population, through screening techniques
- ♦ Incorporate the concept of public health in Diabetes

### Module 2. Pathophysiology of Diabetes

- ♦ Deepen the basic knowledge of glucose homeostasis
- ♦ Analyze the etiopathogenic mechanisms of type 1 diabetes
- ♦ Know what insulinitis is and how it occurs in type 1 diabetes
- ♦ Deepen in the etiopathogenic mechanisms of type 2 diabetes that will serve as therapeutic targets for the same
- ♦ Understand the essential role of adipose tissue and its excess (obesity) in the genesis of type 2 diabetes
- ♦ Acquire the knowledge and skills of insulin resistance measurement
- ♦ Studying the mediating role of inflammation between obesity and diabetes
- ♦ Know the alterations in the regulation of gastrointestinal hormones in type 2 diabetes and what is the incretin effect

- ♦ Learn about a new avenue of research in the field of diabetes etiopathogenesis: Intestinal microbiota
- ♦ Delve into new mechanisms involved in type 2 diabetes, such as the role of the central nervous system as an organ regulating body weight
- ♦ Learn what is the natural history of type 2 diabetes
- ♦ Knowing how to prevent or delay the development of type 1 and type 2 diabetes, by acting on the etiopathogenic mechanisms involved

### Module 3. Evaluation of diabetes and its comorbidities

- ♦ Study in depth the concept of comprehensive assessment of diabetes in order to have a global vision of the patient with diabetes
- ♦ Acquire the necessary knowledge to transmit to the patient the priorities in the therapeutic approach
- ♦ Acquire the skills to know the patient's preferences, social, economic and cultural environment and expectations in the treatment of Diabetes
- ♦ Know the importance of glycemic control
- ♦ Learn glycemic control mediation techniques and individualized targets for each patient
- ♦ Acquire a mastery of hypoglycemia, both from the pathophysiological point of view, as well as detection, prevention and treatment
- ♦ Knowing the consequences of hypoglycemia on the patient
- ♦ Differentiate acute hyperglycemic complications for their correct therapeutic approach
- ♦ Learn to detect precipitating factors of acute hyperglycemic complications

- ♦ Acquire the knowledge and skills for the assessment of cardiovascular risk in the diabetic patient
- ♦ Learning how to screen for cardiovascular risk factors
- ♦ Identify other endocrinological entities with diabetes
- ♦ Acquire knowledge and skills to assess the social and psychological aspects of diabetes

#### Module 4. Diabetes Complications. Classification

- ♦ Learn the etiopathogenic pathways of diabetes complications in order to understand the evolutionary course of these complications and their therapeutic targets
- ♦ Learn the classification of the chronic complications of diabetes according to whether the small vessels or large vessels are mainly affected and according to the organ affected
- ♦ Acquire epidemiological knowledge about diabetic nephropathy in order to be able to assess the importance of its prevention and diagnosis
- ♦ Learn the pathophysiological basis and risk factors involved in diabetic nephropathy
- ♦ Know the evolutionary stages of kidney disease and the current classification of kidney disease
- ♦ Know when and how screening for DN should be performed in the diabetic population
- ♦ Learn the specific treatments for ND
- ♦ Acquire epidemiological knowledge about DR in order to be able to assess the importance of its prevention and diagnosis
- ♦ Learn the pathophysiological basis and risk factors involved in DR
- ♦ Know the evolutionary stages of DR and its current classification
- ♦ Know when and how DR screening should be performed in the diabetic population
- ♦ Learn about specific DR treatments and new avenues of research in this field



- ♦ Acquire epidemiological knowledge about diabetic nephropathy in order to be able to assess the importance of its prevention and diagnosis
- ♦ Learn the pathophysiological basis and risk factors involved in diabetic neuropathy (NeuroD)
- ♦ Know the evolutionary stages of NeuroD and its current classification

### **Module 5. Macrovascular complications of diabetes and other medical entities**

- ♦ Deepen the current data on the Epidemiology of macrovascular disease in diabetes
- ♦ Deepen the current data on the Epidemiology of hypertension in diabetes
- ♦ Deepen on the current data on the Epidemiology of dyslipidemia in diabetes
- ♦ Deepen the knowledge of current data on the Epidemiology of smoking in diabetes
- ♦ Learn how to design a smoking cessation program
- ♦ Acquire the knowledge and skills necessary to screen for coronary heart disease in diabetics
- ♦ Acquire the knowledge and skills necessary for the screening of diabetic heart failure
- ♦ Acquire the knowledge and skills for the initial management of the diabetic heart failure patient
- ♦ Acquire the knowledge and skills necessary to perform screening tests for peripheral arterial disease in diabetics
- ♦ Learn to critically interpret glycemic control targets in the diabetic patient in secondary prevention
- ♦ Acquire the knowledge and skills necessary to develop the criteria for referral to a hepatologist for and a patient with suspected hepatic steatosis
- ♦ Acquire the knowledge and skills necessary for the assessment of chronic lung disease in diabetics

- ♦ Acquire knowledge about the prevalence and association between diabetes and cancer
- ♦ Acquire the knowledge and skills necessary for the screening of mood disorders, especially depression in diabetic patients

### **Module 6. Diabetes Management (I)**

- ♦ Specialize in the integral treatment of Diabetes
- ♦ Learning the global management of obesity in the diabetic patient
- ♦ Know the pharmacological alternatives for the treatment of obesity in patients with diabetes
- ♦ Learn what metabolic surgery is, its indications in diabetic patients and its results
- ♦ Know the most indicated antihypertensive treatments for diabetic patients and their prescription
- ♦ Learn the management of diabetic dyslipidemia, know the indications for its treatment and the drugs available
- ♦ Learn how to prescribe a nutritional plan adapted to each person with type 1 or type 2 diabetes
- ♦ Acquire the knowledge to prescribe a structured exercise program for the patient with Diabetes
- ♦ Know the different insulin treatment guidelines for patients with type 1 diabetes
- ♦ Learn to interpret glycemic control results according to individualized treatment guidelines
- ♦ Become familiar with more complex therapeutic strategies for patients with type 1 diabetes such as islet or pancreas transplantation
- ♦ Acquire a critical view of the recommendations of expert consensus and scientific society guidelines for the management of type 2 diabetes



### **Module 7. Therapeutic Management of Diabetes (II)**

- ♦ Acquire knowledge of each of the families of antidiabetic drugs
- ♦ Acquire the knowledge and skills necessary to be able to safely prescribe metformin
- ♦ Acquire the knowledge and skills necessary to safely prescribe sulfonylureas and glinides
- ♦ Acquire the knowledge and skills necessary to be able to safely prescribe acarbose
- ♦ Acquire the knowledge and skills necessary to safely prescribe DPP4 inhibitors
- ♦ Acquire the knowledge and skills necessary to be able to safely prescribe GLP-1 analogues
- ♦ Acquire the knowledge and skills necessary to safely prescribe type 2 sodium-glucose cotransporter inhibitors
- ♦ Acquire the knowledge and skills necessary to safely prescribe insulins
- ♦ Familiarization with new therapeutic targets in development, as a very novel aspect of this module
- ♦ Acquire the knowledge and skills necessary for the management of steroid-induced hyperglycemia
- ♦ Acquire the knowledge and skills necessary for the nutritional approach to gestational diabetes
- ♦ Acquire the knowledge and skills necessary for the pharmacological management of gestational diabetes

### **Module 8. Diabetes and Technology**

- ♦ 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 be able to manage patient data and to be 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 a training program on glucose sensing
- ♦ 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 the basic knowledge of 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 to recognize the usefulness of information obtained through artificial intelligence data analysis in the field of Diabetes
- ♦ Learn how to apply technology in new forms of medical care for diabetic patients (E-consultation, telemedicine, online training programs...)

### **Module 9. Diabetes in Special Situations**

- ♦ Acquire the knowledge and skills for the expert management of the adolescent diabetes patient
- ♦ Acquire the knowledge and skills to provide guidance in the management of diabetes at the time of initiation of sexual relations
- ♦ Acquire the knowledge and skills to guide the patient with Diabetes who consumes alcohol  
Learn the repercussions of alcohol on glucose metabolism in order to be able to warn and educate patients with diabetes

- ♦ Know how gender influences the control of diabetes from an integral point of view (glycemic control, risk factors and associated comorbidities)
- ♦ Know how the estrogenic deficit that occurs during menopause influences Diabetes control and how to prevent it
- ♦ Learning to identify the frail elderly through screening tests
- ♦ Acquire the knowledge and skills to reprogram the pharmacological approach to the frail elderly patient with polypharmacy and comorbidities
- ♦ Acquire the knowledge and skills to detect these unfavorable socioeconomic situations in order and program patient management
- ♦ Know the legal aspects of the patient with Diabetes, since they condition their life and, therefore, the control of diabetes

#### **Module 10. Diabetic Education. Concept and Fundamentals**

- ♦ Acquire the necessary knowledge and skills of diabetes education, as part of the treatment of diabetes, to facilitate the knowledge, skill and ability necessary for self-management

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*This training will provide you with a sense of confidence in medical practice, which will help you grow personally and professionally”*

# 03 Skills

After passing the assessments on the program, the professional will have acquired the necessary skills for quality up-to-date practice based on the most innovative teaching methodology.



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*This program will help you acquire the skills you need to excel in providing quality patient care”*





## General Skills

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- ◆ Perform appropriate management of patients with diabetes at any level of care
- ◆ Develop the necessary skills to become a professional in care, therapeutic education and research tasks in an ethical and independent manner, in specialized hospital care, primary care, home care, in universities and research centers
- ◆ Achieving excellence in health care services and multidisciplinary management of patients with diabetes

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*Take advantage of the opportunity and take the step to get up to date on the latest developments in Diabetes management”*







## Specific Skills

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### Module 1. The Concept of Diabetes. Epidemiology

- ♦ Know the classification of diabetes and the wide spectrum of etiologies that lead to its development
- ♦ Incorporate the concept of public health in Diabetes

### Module 2. Pathophysiology of Diabetes

- ♦ Acquire the knowledge and skills of insulin resistance measurement
- ♦ Studying the mediating role of inflammation between obesity and diabetes

### Module 3. Evaluation of diabetes and its comorbidities

- ♦ Acquire the necessary knowledge to transmit to the patient the priorities in the therapeutic approach
- ♦ Acquire the skills to know the patient's preferences, social, economic and cultural environment and expectations in the treatment of Diabetes

### Module 4. Diabetes Complications. Classification

- ♦ Learn the classification of the chronic complications of diabetes according to whether the small vessels or large vessels are mainly affected and according to the organ affected
- ♦ Know when and how screening for DN should be performed in the diabetic population.
- ♦ Learn the specific treatments for DN

### Module 5. Macrovascular complications of diabetes and other medical entities

- ♦ Deepen the current data on the Epidemiology of hypertension in diabetes
- ♦ Acquire the knowledge and skills necessary for the screening of mood disorders, especially depression in diabetic patients

### Module 6. Diabetes Management (I)

- ♦ Become familiar with more complex therapeutic strategies for patients with type 1 diabetes such as islet or pancreas transplantation
- ♦ Acquire a critical view of the recommendations of expert consensus and scientific society guidelines for the management of type 2 diabetes

### Module 7. Therapeutic Management of Diabetes (II)

- ♦ Acquire knowledge of each of the families of antidiabetic drugs
- ♦ Acquire the knowledge and skills necessary for the nutritional approach to gestational diabetes
- ♦ Acquire the knowledge and skills necessary for the pharmacological management of gestational diabetes

### Module 8. Diabetes and Technology

- ♦ Learn to recognize the usefulness of information obtained through artificial intelligence data analysis in the field of Diabetes
- ♦ Learn how to apply technology in new forms of medical care (e-consultation, telemedicine, online training programs...) to diabetic patients

### Module 9. Diabetes in Special Situations

- ♦ Know how gender influences the control of diabetes from an integral point of view (glycemic control, risk factors and associated comorbidities)

### Module 10. Diabetic Education. Concept and Fundamentals

- ♦ Acquire the necessary knowledge and skills of diabetes education, as part of the diabetes treatment, to facilitate the knowledge, skills and abilities necessary for your self-management

04

# 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”*

## Management



### Dr. González Albarrán, Olga

- ♦ Degree in Medicine from the Autonomous University Madrid
- ♦ PhD in Medicine from the University of Alcalá de Henares. Grade: Outstanding Cum Laude. Outstanding Award in her PhD
- ♦ Specialist in Endocrinology and Nutrition
- ♦ Head of Endocrinology and Diabetes at the Gregorio Marañón University Hospital in Madrid
- ♦ 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. Ontario, Canada
- ♦ Master's Degree in Management of Endocrinology Clinical Units, Meléndez Pelayo University

## Professors

### Dr. Atencia Goñi, José

- ♦ Degree in Medicine from the University of Navarra
- ♦ Specialist in Endocrinology and Nutrition.
- ♦ Adjunct physician in the Endocrinology Department at the Gregorio Marañón Hospital in Madrid

### Dr. Chacín Coz, Juan Simón

- ♦ Degree in Medicine from the Central University of Venezuela (2001 - 2007)
- ♦ Specialist in Endocrinology and Nutrition.
- ♦ Adjunct physician in the Endocrinology Department at the Rey Juan Carlos University Hospital in Móstoles, Madrid



**Dr. Galdón Sanz-Pastor, Alba**

- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ Specialist in Endocrinology and Nutrition
- ◆ Adjunct physician in the Endocrinology Department at the Gregorio Marañón Hospital in Madrid

**Dr. López Guerra, Aurelio**

- ◆ Degree in Medicine from the University of Gran Canaria
- ◆ Specialist in Endocrinology and Nutrition.
- ◆ Adjunct physician in the Endocrinology Department at the Gregorio Marañón Hospital in Madrid

**Ms. Sánchez González, María**

- ◆ Nutritionist at Club de Remo (Alicante)
- ◆ Freelance Nutritionist. Face-to-face and online consultations
- ◆ Nutritionist at Álex Camarada Sports Center (Alicante)
- ◆ Nutritionist at Melody Garcia Nutrition (Benidorm)
- ◆ Graduate in Human Nutrition and Dietetics from the University of Valladolid
- ◆ Master's Degree in Rehabilitation Nutrition from the Catholic University of Murcia

**Dr. Weber, Bettina**

- ◆ Degree in Medicine from the Complutense University of Madrid
- ◆ Specialist in Endocrinology and Nutrition
- ◆ Adjunct physician in the Endocrinology Department at the Gregorio Marañón Hospital in Madrid



05

# Structure and Content

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





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*This TECH Master's Degree contains the most complete and updated scientific program on the market”*

### **Module 1. The Concept of Diabetes. Epidemiology**

- 1.1. Diabetes Historical Recollection
- 1.2. Classification of Diabetes and Other Categories of Glucose Intolerance
- 1.3. Gestational Diabetes
- 1.4. Diabetes and Genetic Syndromes
- 1.5. Diabetes and Exocrine Pancreatic Diseases
- 1.6. Pharmacological Diabetes
- 1.7. Epidemiology of Type 1 Diabetes
- 1.8. Epidemiology of Type 2 Diabetes
- 1.9. Type 2 Diabetes and Prediabetes Screening
- 1.10. Diabetes and Population Health

### **Module 2. Pathophysiology of Diabetes**

- 2.1. Normal Anatomy and Physiology of Pancreatic Function. Glucose Homeostasis
- 2.2. Pathogenesis of Type 1 Diabetes
- 2.3. Pathogenesis of Type 2 Diabetes. Overview
- 2.4. Role of Adipose Tissue in Type 2 Diabetes. Concept of Insulin Resistance
- 2.5. Implications of Intestinal Hormones in the Pathophysiology of Diabetes: Incretin System. Intestinal Microbiota
- 2.6. Implications of the Kidney in the Pathophysiology of Diabetes
- 2.7. The Central Nervous System and the Pathophysiology of Diabetes
- 2.8. Diabetes and Genetics
- 2.9. Diabetes and Delay or Prevention of DM1
- 2.10. Diabetes and Delay or Prevention of DM2

### **Module 3. Evaluation of diabetes and its comorbidities**

- 3.1. Patient-Centered. Facilitating Behavioral Change in Patients with Diabetes
- 3.2. Glycemic Control Objectives
- 3.3. Hypoglycemia
- 3.4. Diabetes and Hyperglycemic Decompensations: CAD
- 3.5. Diabetes and Hyperosmolar Hyperglycemic Decompensation
- 3.6. Diabetes and Infections
- 3.7. Cardiovascular Risk Assessment in Diabetic Patients
- 3.8. Diabetes and Endocrine Diseases
- 3.9. Psychological and Social Aspects of Diabetes

### **Module 4. Diabetes Complications. Classification**

- 4.1. Classification of Diabetes Complications and their Impact on the Person with Diabetes
- 4.2. Pathophysiology of Microvascular Complications
- 4.3. Pathophysiology of Macrovascular Complications
- 4.4. Diabetic Retinopathy
- 4.5. Diabetic Neuropathy
- 4.6. Diabetic Nephropathy
- 4.7. Periodontal Disease
- 4.8. Erectile Dysfunction
- 4.9. Diabetic Dermatopathy
- 4.10. Diabetic Foot



## Module 5. Macrovascular Complications of Diabetes and Other Medical Conditions

- 5.1. Epidemiology of Macrovascular Disease in Diabetes
- 5.2. Epidemiology of Hypertension and Dyslipidemia in Diabetes
- 5.3. Diabetes and Heart
- 5.4. Cerebrovascular Disease in Diabetes
- 5.5. Peripheral Arterial Disease
- 5.6. Effects of Glycemic Control on Cardiovascular Events in Patients with Diabetes
- 5.7. Diabetes and Hepatic Steatosis/Steatohepatitis
- 5.8. Diabetes and Lung Disease
- 5.9. Diabetes and Cancer
- 5.10. Diabetes and Depression

## Module 6. Diabetes Management (I)

- 6.1. Introduction to Comprehensive Diabetes Management
- 6.2. Management of Obesity in Diabetes and Prediabetes. Metabolic Surgery for Diabetes Treatment
- 6.3. Treatment of Risk Factors: Hypertension in Diabetes, Dyslipidemia
- 6.4. Treatment of Risk Factors: Tobacco use
- 6.5. Nutrition in Type 1 Diabetes
- 6.6. Nutrition in Type 2 Diabetes
- 6.7. Exercise as Part of Diabetes Treatment
- 6.8. Conventional Treatment of Type 1 Diabetes
- 6.9. "Non-Conventional" Treatment of Type 1 Diabetes. Pancreatic Islet Transplantation, Pancreas Transplantation
- 6.10. National and International Guidelines and Consensus on the Management of Type 2 Diabetes



## Module 7. Therapeutic Management of Diabetes (II)

- 7.1. Metformina
- 7.2. Sulfonylureas and Glinides
- 7.3. Acarbose and Thiazolidines
- 7.4. Glycosurics
- 7.5. DPP4 Enzyme Inhibitors
- 7.6. GLP-1 Receptor Agonists
- 7.7. Recap. Prandial Insulins. Basal Insulins
- 7.8. New Treatments in Research
- 7.9. Steroid Diabetes Treatment
- 7.10. Treatment of Gestational Diabetes

## Module 8. Diabetes and Technology

- 8.1. Overview of the Use of Technology in Diabetes
- 8.2. Capillary Glycemia Self-Monitoring
- 8.3. Continuous Glucose Monitoring. Glucose Sensors
- 8.4. Insulin and Injection Devices. Insulin Pumps
- 8.5. Artificial Pancreas
- 8.6. Use of Technology in Diabetes in Pregnancy
- 8.7. Use of Technology in Diabetes in Infancy
- 8.8. Diabetes y Big Data
- 8.9. Diabetes and Internet (Web, Apps, etc.)
- 8.10. New Ways to Care for the Diabetes Patient





## Module 9. Diabetes in Special Situations

- 9.1. Diabetes in Childhood and Adolescence
- 9.2. Diabetes, Alcohol and Sexual Relationships
- 9.3. Diabetes in Women
- 9.4. Diabetes in the Elderly and in the Institutionalized Patient
- 9.5. Diabetes and Sports
- 9.6. Diabetes in the Hospitalized Patient
- 9.7. Diabetes and Travel
- 9.8. Diabetes and Work Life/Rural
- 9.9. Socioeconomic Aspects of Diabetes
- 9.10. Legal Aspects of Diabetes

## Module 10. Diabetological Education. Concept and Fundamentals

- 10.1. Diabetic Education. Concept. Assessment of the Educational Needs of the Person with Diabetes
- 10.2. Diabetology Education Training Programs
- 10.3. Education and Competencies in People with Type 1 Diabetes
- 10.4. Education and Competencies in People at Risk of Type 2 Diabetes or with Type 2 Diabetes
- 10.5. Therapeutic Education of the Child and Adolescent, their Parents or Caregivers
- 10.6. Therapeutic Education for the Detection of Foot Risk in People with Diabetes
- 10.7. Impact of the "Expert Patient" Program on Diabetology Education
- 10.8. Impact of Patients' Associations
- 10.9. Ethical Aspects in Diabetes Education
- 10.10. Challenges in Chronic Monitoring. Barriers to Adherence and Therapeutic Inertia



*A comprehensive teaching program, structured in very well-developed teaching units, oriented towards high impact learning"*

06

# 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. Gervas, 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.





# 07 Certificate

The Professional Master's Degree in Diabetes guarantees you, in addition to the most rigorous and updated training, access to a Professional Master's Degree issued by TECH Technological University.







“

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

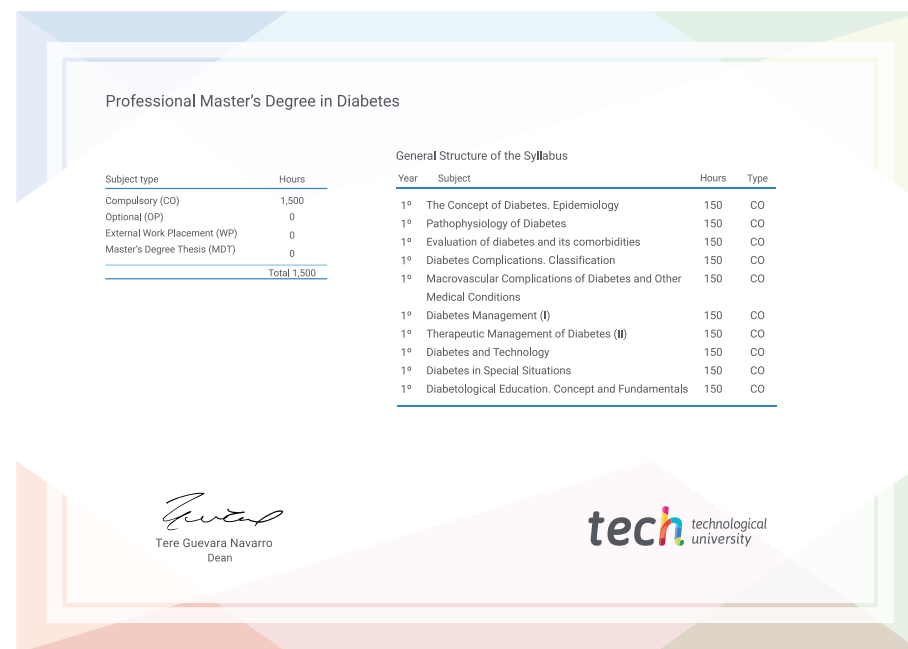
This **Professional Master's Degree in Diabetes** contains the most complete and updated scientific program on the market.

After the student has passed the assessments, they will receive their corresponding **Professional Master's Degree** issued by **TECH Technological University** by tracked delivery\*.

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

Title: **Master's Degree in Diabetes**

Official N° of hours: **1,500 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 information

knowledge present quality

online learning

development languages

virtual classroom

**tech** technological  
university

## Professional Master's Degree Diabetes

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

# Professional Master's Degree

## Diabetes

