

Postgraduate Diploma
Advanced Contactology.
Surgery Procedures
and the Latest Advances
in Instrumentation





Postgraduate Diploma Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-diploma/postgraduate-diploma-advanced-contactology-surgery-procedures-latest-advances-instrumentation

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01

Introduction

With this Postgraduate Diploma optometrists will acquire the necessary knowledge to customize contact lenses in a personalized and effective way, addressing both normal and complicated cases, as well as orthokeratology and the latest advances and evidence in the control of myopia through contact lenses, deepening in turn in the latest procedures in surgery and new advances in instrumentation.





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The latest advances in the area of optical technologies and clinical optometry compiled in a highly efficient Postgraduate Diploma that will optimize your effort with the best results”

Continuous training in the latest optometric technologies and treatments is essential in professional updating, preparing to take on jobs that are increasingly integrated into the healthcare system, both public and private.

Contact lenses are one of the disciplines with the highest degree of specialization in optics and optometry. Conventional adaptations for compensation of spherical and cylindrical ametropia are generally performed by optometrists, but special adaptations require a high degree of specialization.

The Postgraduate Diploma in Advanced Contactology covers the main fields of action for optometrists, always with the highest level of updating and with a first class teaching staff. The study plan has been designed from the perspective and experience of experts highly specialized in their modules, and immersed in the clinical world, which has led us to know the current and future training challenges.

This Postgraduate Diploma has been clearly and robustly directed to the clinical field, preparing students to develop in this field with extensive theoretical and practical knowledge in optometry.

Students will follow modules, each of them structured in 10 topics. Each topic consists of a theoretical introduction, explanations by the professor, activities, etc., in such a way that learning becomes an enjoyable journey to high-level knowledge in Optical Instrumentation and Clinical Optometry.

In conclusion, this Postgraduate Diploma provides professionals with the theoretical and clinical knowledge necessary to address any of the specialties within Optics and Optometry, as well as opening the door to clinical research.

This **Postgraduate Diploma in Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation** offers you the advantages of a high-level scientific, teaching, and technological training. These are some of its most notable features:

- ♦ More than 100 clinical cases presented by experts in the different specialties.
- ♦ The graphic, schematic, and eminently practical contents with which they are created provide scientific and practical information on the disciplines that are essential for professional practice.
- ♦ The latests developments in Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation.
- ♦ The presentation of hands-on workshops on procedures, diagnostic and therapeutic techniques.
- ♦ An algorithm-based interactive learning system for decision-making in the clinical situations presented throughout the course.
- ♦ 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.



This Postgraduate Diploma in Advanced Contactology. Surgery Procedures and the the Latest Advances in Instrumentation will help you keep up to date in order to provide comprehensive quality care to patients”

“

This Postgraduate Diploma is the best investment you can make when choosing a refresher program to expand your existing knowledge in Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation”

All the necessary methodology for non-specialist medical professionals in the field of clinical optometry, in a specific and concrete Postgraduate Diploma.

We have the best didactic material, an innovative methodology and a 100% online training, which will facilitate your study.

The teaching staff is made up of professionals belonging to the field of Advances in Contactology and Surgery Procedures and the Latest Advances in Instrumentation, who contribute their work experience to this training 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 an immersive training experience designed to train for real-life situations.

This program is designed around Problem Based Learning, where the medical professional must try to solve the different professional practice situations that arise during the course. For this purpose, the specialist will be assisted by an innovative interactive video system created by renowned and experienced experts in treating patients in children with extensive experience.



02 Objectives

This Postgraduate Diploma is designed to effectively update physician knowledge in order to provide quality care based on the latest scientific evidence that guarantees patient safety.





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If you are looking for success in your profession, we can help you achieve it. We offer you the most complete training on Optical Technologies and Clinical Optometry”



General Objectives

- Cope with the fitting of all types of contact lenses
- Advise patients in optical centers about the different procedures and their indications
- Know in detail the technical characteristics, indications for use and limitations of different devices specifically designed for ocular analysis
- Learn the instruments for measuring tear quality and quantity, characterization of the cornea and sclera, measurement of the anterior chamber and the iridocorneal angle, etc., so that the professional who completes this program will know the latest instruments for measuring ocular structures



Specific Objectives

- Detailed knowledge of the ocular surface and tears, as this is the medium through which the contact lenses will be fitted
- In-depth knowledge of the different topographic maps and their clinical application in contactology
- Become familiar with the use of the biomicroscope for the study of ocular health prior to fitting and its subsequent evaluation
- Learn how to fit rigid gas permeable contact lenses in regular corneas
- Learn how to fit, not "put in", soft contact lenses. Many of the adaptations currently being made are not optimal. The contact lens specialist will learn how to make fittings as personalized as possible
- Become familiar with all possible solutions for irregular corneal adaptations and know the criteria to choose the best alternative
- Handle the basics of orthokeratology and the adaptation of this type of lenses.
- Learn how to assess fitting and monitoring.
- Learn the main aspects that make for a different orthokeratology adaptation in high myopia, astigmatism and hyperopia.
- Learn how to use the tools currently available to control the progression of myopia.
- Master the fitting of multifocal lenses and know how to improve and optimize a fitting by means of defocus curves and lens power profiles.
- Solve the most frequent complications found in contact lens fittings.
- Identify ocular conditions that make it inadvisable to use contact lenses or find the best alternative for that condition
- In-depth understanding of ocular optics and how to act on it to adjust refraction by modifying corneal power

- ♦ In-depth understanding of ocular optics and how to act on it to modify refraction with intraocular lenses
 - ♦ Handle the excimer laser and ablation profiles according to the refraction being treated
 - ♦ Study the different techniques of corneal refractive surgery
 - ♦ Describe the preoperative tests necessary for surgical indication in corneal refractive surgery
 - ♦ Manage the role of the optometrist in the preoperative, intraoperative and postoperative process in corneal refractive surgery
 - ♦ Deepen in the postoperative medical treatment in corneal refractive surgery
 - ♦ Gain in-depth knowledge of the normal evolution and complications in corneal refractive surgery
 - ♦ Study the techniques used in intraocular refractive surgery
 - ♦ Describe phakic lenses, their indications and necessary preoperative testing
 - ♦ Describe lenses for Pseudophakic eyes, their indications and necessary preoperative testing
 - ♦ Specialize in the surgical procedure of clear lens and cataract surgery
 - ♦ Learn how to perform ocular biometry and intraocular lens calculation for clear lens and cataract surgery
 - ♦ Apply the different formulas for calculating the pseudophakic intraocular lens in normal eyes
 - ♦ Deepen in the special procedures for calculating the pseudophakic intraocular lens in eyes that have previously undergone corneal refractive surgery
 - ♦ Have a comprehensive knowledge of medical and optometric treatments after surgery
 - ♦ Describe the main complications that can occur in intraocular refractive surgery
 - ♦ Become familiar with the methods and instrumentation necessary for the characterization of the ocular lacrimal layer
 - ♦ Describe the instruments used to measure optical parameters and corneal morphology
- ♦ Precise knowledge of the instruments necessary for the characterization of the sclera
 - ♦ Describe the techniques and instruments for measuring the irido-corneal angle
 - ♦ Introduce the instruments for intraocular pressure measurement
 - ♦ Deepen in the instruments used for the visual field evaluation
 - ♦ Describe the instrumentation used for optic nerve evaluation
 - ♦ Describe ocular biometry and its use in Optometry



A path to achieve training and professional growth that will propel you towards a greater level of competitiveness in the employment market".

03

Course Management

The program includes in its teaching staff leading experts in the Advanced Contactology, Surgery Procedures and the Latest Advances in Instrumentation, who pour the experience of their work into this training. Additionally, other recognized experts participate in its design and preparation, completing the program in an interdisciplinary manner.





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Leading professionals in the field have come together to teach you the latest advances in Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation”

Management



Dr. Calvache Anaya, José Antonio

- ♦ Doctor in Optometry and Vision Sciences
- ♦ Postgraduate Diploma in Statistics Applied to Health Sciences
- ♦ Optometrist at Clínica Baviera in Palma de Mallorca

Professors

Dr. Berbegal García, Vicente

- ♦ Contactologist and responsible for training in the team of optometrists of Teixido opticians in Reus, Tarragona, specialists in special contact lenses adaptations.
- ♦ Graduate in Optics and Optometry from the University of Alicante
- ♦ Master's Degree in Optometry and Vision Therapy, offered by the International Optometry Center.

Dr. Pérez Cambrodí, Rafael

- ♦ Doctor in Optometry and Vision Sciences PhD. University of Valencia
- ♦ Director of the Optometry Unit of Hospital Internacional Medimar.



04

Structure and Content

The content structure has been designed by a team of professionals who recognize the implications of training in medical practice in Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation, who are aware of the current relevance of specialization to be able to treat pediatric patients with urgent pathology, and committed to quality teaching through new educational technologies.





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This Postgraduate Diploma in Advanced Contactology. Surgery Procedures and the the Latest Advances in Instrumentation will help you keep from up to date in order to provide comprehensive quality care to patients”

Module 1. Advanced Contactology

- 1.1. Cornea and Ocular Surface
 - 1.1.1. Cornea
 - 1.1.2. Tears
 - 1.1.3. Lens-To-Eye Relationship
- 1.2. Corneal Topography
 - 1.2.1. Introduction and Principles
 - 1.2.2. Placid Disk and Elevation Based Topographies
 - 1.2.3. Types of Maps and Their Application
- 1.3. Biomicroscopy
 - 1.3.1. Introduction
 - 1.3.2. Techniques and Uses
 - 1.3.3. Photography and Image Capture
- 1.4. Contact Lenses Fitting in Regular Cornea
 - 1.4.1. When a Cornea Is Regular
 - 1.4.2. RGP Lenses
 - 1.4.2.1. Materials
 - 1.4.2.2. Designs
 - 1.4.3. Soft Lens Custom Fitting
 - 1.4.3.1. Introduction
 - 1.4.3.2. Concept of Sagitta
 - 1.4.3.3. Importance of Sagittal Height in Soft Lenses
- 1.5. Fitting of Contact Lenses in Irregular Cornea
 - 1.5.1. Definition of Irregular Cornea
 - 1.5.2. Corneal Lenses
 - 1.5.3. Scleral Lenses
 - 1.5.4. Other Possible Solutions
- 1.6. Principles of Orthokeratology
 - 1.6.1. History
 - 1.6.2. Treatment Mechanisms
 - 1.6.3. Lens Design
 - 1.6.4. Evaluation of the Fluorogram
 - 1.6.5. Topography Evaluation

- 1.7. Advanced Orthokeratology
 - 1.7.1. Myopia
 - 1.7.2. Astigmatism
 - 1.7.3. Hyperopia
- 1.8. Myopia Control with Contact Lenses
 - 1.8.1. Introduction to Myopia
 - 1.8.2. Orthokeratology
 - 1.8.3. Multifocal Soft Lenses
 - 1.8.4. Combined Treatments with Atropine
- 1.9. Fitting of Multifocal Lenses for Presbyopia
 - 1.9.1. Blur Curve and Power Profiles
 - 1.9.2. RGP Lenses
 - 1.9.3. Soft Lenses
- 1.10. Complications in Contactology
 - 1.10.1. Complications Arising from Adaptation
 - 1.10.2. Complications Unrelated to the Adaptation

Module 2. Optometric Procedures in Corneal, Intraocular and Cataract Refractive Surgery

- 2.1. Physical Basis of Refractive Change in the Corneal Plane
 - 2.1.1. Theoretical Eye Solution
 - 2.1.1.1. Theoretical Emropic Eye
 - 2.1.1.2. Theoretical Ametropic Eye
 - 2.1.2. Change in Refraction as a Function of Change in ACD
 - 2.1.3. Change in Refraction as a Function of Change in Corneal Power
- 2.2. Corneal Refractive Surgery Techniques
 - 2.2.1. Corneal Anatomy and Physiology
 - 2.2.2. Optical Foundation
 - 2.2.3. LASIK
 - 2.2.4. PRK
 - 2.2.5. LASEK
 - 2.2.6. SMILE
 - 2.2.7. PRESBILASIK
 - 2.2.8. Re-treatments

- 2.3. Types of Laser
 - 2.3.1. The Excimer Laser
 - 2.3.2. Ablation Profiles
 - 2.3.3. Optometrists in the Laser Refractive Operating Room
 - 2.3.4. Surgery Scheduling and Safety Protocols
 - 2.3.5. Creation of a Nomogram
- 2.4. Preoperative Testing for Corneal Refractive Surgery
 - 2.4.1. Corneal Topography and Tomography
 - 2.4.1.1. Normal Corneal Topography
 - 2.4.1.2. Corneal vs. Refractive Astigmatism: Applying Javal's Rule
 - 2.4.1.3. Pathological Topographies
 - 2.4.1.4. Suspicious Topographies
 - 2.4.2. Pachymetry
 - 2.4.2.1. Normal Values, Limits and Fine Pachymetries
 - 2.4.2.2. Surgery Limitations due to Pachymetry
 - 2.4.3. Refraction
 - 2.4.3.1. Visual Acuity
 - 2.4.3.2. Subjective Refraction vs. Objective Refraction
 - 2.4.3.3. Cycloplegic Refraction
 - 2.4.3.4. Surgical Indication
 - 2.4.4. Test Verification
 - 2.4.4.1. Pre-surgical Briefing
- 2.5. Postoperative Period and Complications in Corneal Refractive Surgery
 - 2.5.1. Intra-Operative
 - 2.5.1.1. Correcting Programming Errors by Vectors of Dioptric Powers
 - 2.5.1.2. Incomplete Lenticule
 - 2.5.1.3. Complete Lenticule
 - 2.5.1.4. Loss of Epithelium
 - 2.5.2. Post-Operative
 - 2.5.2.1. Flap Dislocation
 - 2.5.2.2. Keratitis Sicca
 - 2.5.2.3. Infection.
 - 2.5.2.4. Epithelial Growth at the Interphase
 - 2.5.2.5. Interphase Fluid Syndrome
 - 2.5.2.6. Cortico-Dependent Increase in Intraocular Pressure
 - 2.5.2.7. Toxic Anterior Segment Syndrome (TASS)
 - 2.5.2.8. Loss of Visual Quality
- 2.6. Physical Basis of Refractive Change Induced by Intraocular Lenses
 - 2.6.1. Solution of the Theoretical Eye
 - 2.6.1.1. Phakic Lenses
 - 2.6.1.2. Pseudophakic Lenses in Clear Lens and Cataracts
- 2.7. Preoperative Testing for Intraocular Surgery
 - 2.7.1. Phakic Lenses
 - 2.7.2. Lens Surgery
- 2.8. Ocular Biometry and Intraocular Lens Calculation
 - 2.8.1. Calculation Formula for Pseudophakic Intraocular Lenses
 - 2.8.2. Calculation Formula for Phakic Intraocular Lenses
 - 2.8.3. Ultrasonic and Optical Ocular Biometry
 - 2.8.4. Intraocular Lens Power Calculation Formulas
 - 2.8.5. Calculation in Eyes Undergoing Corneal Laser Refractive
 - 2.8.5.1. Haigis Method
 - 2.8.5.2. Shammas' Method
 - 2.8.5.3. Barret True- K
- 2.9. Types of Intraocular Lens
 - 2.9.1. Monofocal Lenses
 - 2.9.2. Multifocal Lenses
 - 2.9.3. Toric Lenses
 - 2.9.4. Accommodating Lenses
- 2.10. Postoperative Period and Complications in Intraocular Refractive Surgery
 - 2.10.1. Intra-Operative
 - 2.10.2. Early Preoperatives
 - 2.10.3. Late Preoperatives

Module 3. Latest Advances in Optical and Optometric Instrumentation

- 3.1. Tear Characterization
 - 3.1.1. Characterization of the Meibomian Glands: Indications for Intense Pulsed Light (IPL) Treatment
 - 3.1.2. Qualitative and Quantitative Techniques
 - 3.1.3. Tear Patterns Assessment
- 3.2. Cornea Characterization
 - 3.2.1. Corneal Topography: Placido Systems and Scheimpflug Photography
 - 3.2.2. Optical Coherence Tomography (OCT) of the Anterior Segment
 - 3.2.3. Endothelial Microscopy
 - 3.2.4. Corneal Biomechanics
- 3.3. Characterization of the Sclera: Scleral Topography
- 3.4. Anterior Chamber and Iridocorneal Angle Evaluation
 - 3.4.1. Classic Techniques
 - 3.4.2. Anterior Segment OCT
 - 3.4.3. Gonioscopy
 - 3.4.4. Ultrasonic Biomicroscopy (UBM)
- 3.5. Tonometry
 - 3.5.1. Techniques
 - 3.5.2. Instruments
- 3.6. Evaluation of the Crystalline Lens
 - 3.6.1. Techniques
 - 3.6.2. Instruments
- 3.7. Evaluation of the Optic Nerve, Retina (Vascular Tree, Parenchyma and Macular Area) and Choroid
 - 3.7.1. Ophthalmoscopy
 - 3.7.2. Posterior Segment OCT
 - 3.7.3. Retinography
 - 3.7.4. Other Techniques
- 3.8. Visual Field Evaluation
 - 3.8.1. Computerized Campimetry





- 3.9. Systems for Assessing Visual Quality and Light Scattering
- 3.10. Ocular Biometry
 - 3.10.1. Uses in Optometry
 - 3.10.2. Ultrasonic Biometry
 - 3.10.3. Optical Biometrics

“*A unique, key, and decisive training experience to boost your professional development*”

05

Methodology

This training program provides you with a different way of learning. Our methodology uses a cyclical learning approach: ***Re-learning***.

This teaching system is used 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 Re-learning, 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

In a given situation, what would you do? Throughout the program, you will be presented with multiple simulated clinical cases based on real patients, where you will have to investigate, establish hypotheses and, finally, 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 can 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 potential 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 professional medical 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 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 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.



Re-learning Methodology

At TECH we enhance the Harvard case method with the best 100% online teaching methodology available: Re-learning.

Our 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, which represent a real revolution with respect to simply studying and analyzing cases.



The physician 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 Re-learning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best Spanish-speaking online university (Columbia University).

With this methodology we have trained more than 250,000 physicians with unprecedented success, in all clinical specialties regardless of the surgical load. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Re-learning 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 (we learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



Latest 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 this, in first person, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, you can watch them as many times as you want.



Interactive Summaries

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

This unique multimedia content presentation training system was awarded by Microsoft as a "European Success Story".



Additional Reading

Recent articles, consensus documents, international guides. in our virtual library you will have access to everything you need to complete your training.





Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, we will present you with real case developments in which the expert will guide you through 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 your knowledge throughout the program, through assessment and self-assessment activities and exercises: so that you can see how you are achieving your 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 our difficult future decisions.



Quick Action Guides

We offer you the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical, and effective way to help you progress in your learning.



06 Certificate

Through a different and stimulating learning experience, you will be able to acquire the necessary skills to take a big step in your training. An opportunity to progress, with the support and monitoring of a modern and specialized university, which will propel you to another professional level.



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Include in your qualifications a Postgraduate Diploma in Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation: A high-quality added value for any medical professional”

This program will allow you to obtain your **Postgraduate Diploma in Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation** 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 Diploma in Advanced Contactology. Surgery Procedures and the Latest Advances in Instrumentation**

Modality: **online**

Duration: **6 months**

Credits: **18 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 contactology
online training
development language
virtual classroom



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