

Professional Master's Degree

Clinical Nutrition





Professional Master's Degree Clinical Nutrition

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Credits: 60 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/nutrition/professional-master-degree/master-clinical-nutrition

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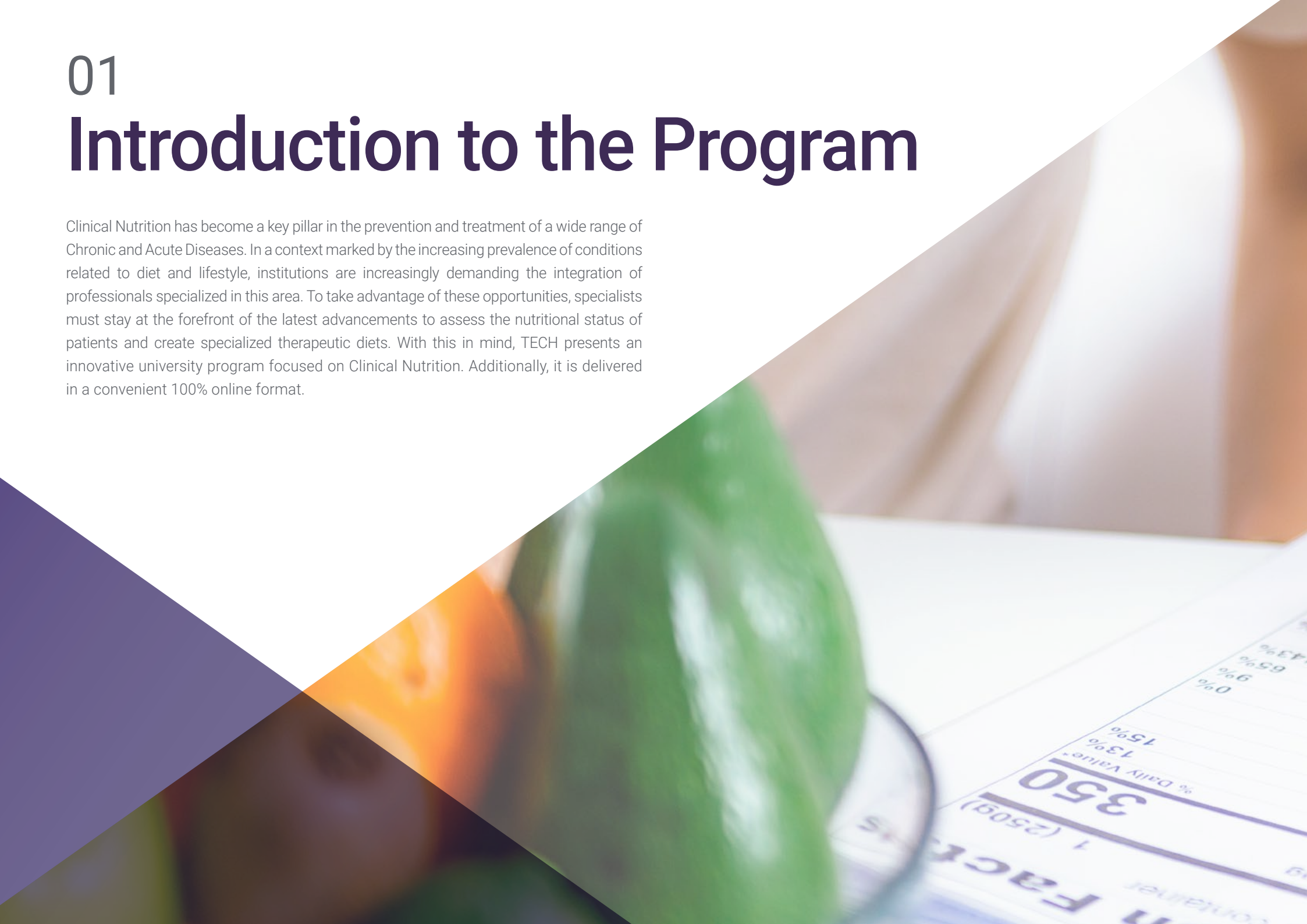
Certificate

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01

Introduction to the Program

Clinical Nutrition has become a key pillar in the prevention and treatment of a wide range of Chronic and Acute Diseases. In a context marked by the increasing prevalence of conditions related to diet and lifestyle, institutions are increasingly demanding the integration of professionals specialized in this area. To take advantage of these opportunities, specialists must stay at the forefront of the latest advancements to assess the nutritional status of patients and create specialized therapeutic diets. With this in mind, TECH presents an innovative university program focused on Clinical Nutrition. Additionally, it is delivered in a convenient 100% online format.





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Thanks to this 100% online Professional Master's Degree, you will design personalized dietary plans according to the clinical conditions of patients and optimize their long-term quality of life”

Clinical Nutrition has become central in the therapeutic approach to numerous pathologies. Various studies from the World Health Organization have shown that adequate nutritional intervention can significantly improve prognosis, reduce complications, and shorten hospitalization times. However, in an ever-evolving healthcare environment, professionals need to incorporate the most innovative nutritional strategies into their daily clinical practice to ensure comprehensive, evidence-based care tailored to the specific needs of each patient.

In this context, TECH has created a pioneering Professional Master's Degree in Clinical Nutrition. This program comprehensively addresses the clinical aspects of Nutrition, from assessing nutritional status to developing dietary strategies for patients with oncological diseases. Additionally, the syllabus will equip professionals with the most modern techniques for identifying the nutritional needs of each patient. The educational materials will also explore various treatments for managing common conditions ranging from Obesity to Dysphagia. As a result, graduates will acquire advanced clinical skills to perform personalized dietary interventions, adjust meal plans according to the patient's progress, and apply specialized nutritional support in various settings.

The program is based on a flexible 100% online format, allowing specialists to plan their schedules individually. All you will need is a device with internet access to enter the Virtual Campus, where you will find a wide range of multimedia resources (such as explanatory videos, interactive summaries, and specialized readings). Moreover, TECH's innovative Relearning Methodology will ensure that graduates update their knowledge progressively and naturally, without investing long hours in study.

Additionally, a prestigious International Guest Director will lead 10 high-intensity Masterclasses.

This **Professional Master's Degree in Clinical Nutrition** contains the most complete and up-to-date scientific program on the market. The most important features include:

- The development of practical case studies presented by experts in Clinical Nutrition
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on the disciplines that are essential for professional practice
- Practical exercises where the self-assessment process can be carried out to improve learning
- Its special emphasis on innovative methodologies in learning based on clinical practice
- 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



A renowned International Guest Director will offer 10 rigorous Masterclasses, allowing you to assess the nutritional status of individuals using advanced clinical, anthropometric, and biochemical parameters”

“

Take advantage of all the benefits of TECH's Relearning methodology, which will allow you to organize your study time and pace to suit your schedule”

The program includes a faculty composed of professionals from the field of Clinical Nutrition, who bring their practical experience to the 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 learning experience designed to prepare for real-life situations.

This program is designed around Problem-Based Learning, whereby the student must try to solve the different professional practice situations that arise throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts.

You will design specific diets to optimize the overall well-being of individuals with conditions such as Diabetes, Obesity, or Cardiovascular Diseases.

You will deepen your understanding of the pathophysiological foundations and their relationship with nutritional approaches in both Chronic and Acute Diseases.



02

Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs, available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it has a huge faculty of more than 6,000 professors of the highest international prestige.



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Study at the largest online university in the world and ensure your professional success. The future begins at TECH”

The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

Forbes

The best online university in the world

The most complete
syllabus

The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistuba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

TOP
international faculty



The most effective methodology

A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

World's No.1
The World's largest online university

The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



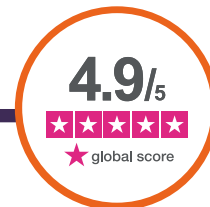
Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



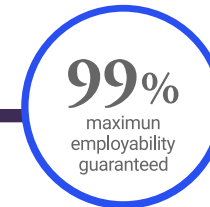
The official online university of the NBA

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The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



Leaders in employability

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03 Syllabus

The syllabus will provide professionals with a holistic understanding of the fundamentals of Clinical Nutrition. The educational materials will explore the most innovative tools for assessing patients' nutritional needs and accurately diagnosing conditions such as Obesity. Additionally, the syllabus will delve into the design of individualized dietary plans, considering each individual's specific requirements. As a result, graduates will be able to identify nutritional risks early, optimize nutritional support based on the pathology, and actively contribute to the patient's recovery process.





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You will apply the latest scientific evidence when making clinical decisions related to nutrition and nutritional status”

Module 1. New Developments in Food

- 1.1. Molecular Foundations of Nutrition
- 1.2. Update on Food Composition
- 1.3. Food Composition Tables and Nutritional Databases
- 1.4. Phytochemicals and Non-Nutritive Compounds
- 1.5. New Food
 - 1.5.1. Functional Nutrients and Bioactive Compounds
 - 1.5.2. Probiotics, Prebiotics, and Symbiotics
 - 1.5.3. Quality and Design
- 1.6. Organic Food
- 1.7. Genetically Modified Foods
- 1.8. Water as a Nutrient
- 1.9. Food Safety
 - 1.9.1. Physical, Chemical, and Microbiological Hazards
- 1.10. New Food Labeling and Consumer Information
- 1.11. Phytotherapy Applied to Nutritional Pathologies

Module 2. Current Trends in Nutrition

- 2.1. Nutrigenetics
- 2.2. Nutrigenomics
 - 2.2.1. Fundamentals
 - 2.2.2. Methods
- 2.3. Immunonutrition
 - 2.3.1. Nutrition-Immunity Interactions
 - 2.3.2. Antioxidants and Immune Function
- 2.4. Physiological Regulation of Eating. Appetite and Satiety
- 2.5. Nutrition and the Circadian System. Timing is the Key

Module 3. Assessment of Nutritional Status and Diet. Practical Application

- 3.1. Bioenergy and Nutrition
 - 3.1.1. Energy Needs
 - 3.1.2. Methods of Assessing Energy Expenditure
- 3.2. Assessment of Nutritional Status
 - 3.2.1. Body Composition Analysis
 - 3.2.2. Clinical Diagnosis. Symptoms and Signs
 - 3.2.3. Biochemical, Hematological and Immunological Methods
- 3.3. Intake Assessment
 - 3.3.1. Methods for Analyzing Food and Nutrient Intake
 - 3.3.2. Direct and Indirect Methods
- 3.4. Update on Nutritional Requirements and Recommended Intakes
- 3.5. Nutrition in a Healthy Adult. Objectives and Guidelines. The Mediterranean Diet
- 3.6. Nutrition in Menopause
- 3.7. Nutrition in the Elderly

Module 4. Nutritional Consultation

- 4.1. How to Carry Out a Nutritional Consultation
 - 4.1.1. Analysis of the Market and Competition
 - 4.1.2. Clients
 - 4.1.3. Marketing. Social Networks
- 4.2. Psychology and Nutrition
 - 4.2.1. Psychosocial Factors Affecting Eating Behavior
 - 4.2.2. Interview Techniques
 - 4.2.3. Dietary Advice
 - 4.2.4. Stress Control
 - 4.2.5. Child and Adult Nutrition Education



Module 5. Sports Nutrition

- 5.1. Physiology of Exercise
- 5.2. Physiological Adaptation to Different Types of Exercise
- 5.3. Metabolic Adaptation to Exercise. Regulation and Control
- 5.4. Assessing Athletes' Energy Needs and Nutritional Status
- 5.5. Assessing Athletes' Physical Ability
- 5.6. Nutrition in the Different Phases of Sports Practice
 - 5.6.1. Pre-Competition
 - 5.6.2. During
 - 5.6.3. Post-Competition
- 5.7. Hydration
 - 5.7.1. Regulation and Needs
 - 5.7.2. Types of Beverages
- 5.8. Dietary Planning Adapted to Different Sports
- 5.9. Ergogenic Aids
 - 5.9.1. American Medical Association Recommendations
- 5.10. Nutrition in Sports Injury Recovery
- 5.11. Psychological Disorders Related to Practicing Sport
 - 5.11.1. Eating Disorders: Bigorexia, Orthorexia, Anorexia
 - 5.11.2. Fatigue Caused by Overtraining
 - 5.11.3. The Female Athlete Triad
- 5.12. The Role of the *Coach* in Sports Performance

Module 6. Clinical Nutrition and Hospital Dietetics

- 6.1. Management of Hospital Nutrition Units
 - 6.1.1. Nutrition in the Hospital Setting
 - 6.1.2. Food Safety in Hospitals
 - 6.1.3. Hospital Kitchen Organization
 - 6.1.4. Planning and Managing Hospital Diets. Dietary Code
- 6.2. Hospital Basal Diets
 - 6.2.1. Basal Diet in Adults
 - 6.2.2. Pediatric Basal Diet
 - 6.2.3. Ovo-Lacto-Vegetarian and Vegan Diet
 - 6.2.4. Diet Adapted to Cultural
- 6.3. Therapeutic Hospital Diets
 - 6.3.1. Unification of Diets and Personalized Menus
- 6.4. Bidirectional Drug-Nutrient Interaction

Module 7. Nutrition in Digestive Tract Pathologies

- 7.1. Nutrition in Oral Disorders
 - 7.1.1. Taste
 - 7.1.2. Salivation
 - 7.1.3. Mucositis
- 7.2. Nutrition in Esophageal and Gastric Disorders
 - 7.2.1. Gastroesophageal Reflux
 - 7.2.2. Gastric Ulcers
 - 7.2.3. Dysphagia
- 7.3. Nutrition in Post-Surgical Syndromes
 - 7.3.1. Gastric Surgery
 - 7.3.2. Small Intestine
- 7.4. Nutrition in Bowel Function Disorders
 - 7.4.1. Constipation
 - 7.4.2. Diarrhea
- 7.5. Nutrition in Malabsorption Syndromes
- 7.6. Nutrition in Colonic Pathology
 - 7.6.1. Irritable Bowel
 - 7.6.2. Diverticulosis
- 7.7. Nutrition in Inflammatory Bowel Disease (IBD)
- 7.8. Most Frequent Food Allergies and Intolerances with Gastrointestinal Effects
- 7.9. Nutrition in Liver Diseases
 - 7.9.1. Portal Hypertension
 - 7.9.2. Hepatic Encephalopathy
 - 7.9.3. Liver Transplantation
- 7.10. Nutrition in Biliary Diseases. Biliary Lithiasis
- 7.11. Nutrition in Pancreatic Diseases
 - 7.11.1. Acute Pancreatitis
 - 7.11.2. Chronic Pancreatitis

Module 8. Nutrition in Endocrine-Metabolic Diseases

- 8.1. Dyslipidemia and Arteriosclerosis
- 8.2. Diabetes Mellitus
- 8.3. Hypertension and Cardiovascular Disease
- 8.4. Obesity
- 8.5. Dietary and Pharmacological Treatment
- 8.6. Psychological and Surgical Treatment
- 8.7. Physical Activity in Obesity

Module 9. Nutrition in Kidney Diseases

- 9.1. Glomerular Disorders and Tubulopathies
- 9.2. Predialysis Chronic Renal Failure
- 9.3. Chronic Renal Insufficiency and Dialysis
- 9.4. Gout and Hyperuricemia

Module 10. Nutrition in Neurological Diseases

- 10.1. Swallowing Disorders
- 10.2. Disabling Neuromuscular Disorders
- 10.3. Stroke
- 10.4. Parkinson's Disease
- 10.5. Alzheimer's Disease

Module 11. Nutrition in Special Situations

- 11.1. Nutrition in Metabolic Stress Situations
 - 11.1.1. Sepsis
 - 11.1.2. Polytrauma
 - 11.1.3. Burns
 - 11.1.4. Transplant Recipient
- 11.2. Oncology Patient Nutrition
 - 11.2.1. Surgical Treatment
 - 11.2.2. Chemotherapy Treatment
 - 11.2.3. Radiotherapy Treatment
 - 11.2.4. Bone Marrow Transplant
- 11.3. Immune Diseases
 - 11.3.1. Acquired Immunodeficiency Syndrome

Module 12. Nutritional Deficiency Diseases

- 12.1. Malnutrition
- 12.2. Osteoporosis

Module 13. Artificial Nutrition in Adults

- 13.1. Enteral Nutrition
- 13.2. Parenteral Nutrition
- 13.3. Artificial Nutrition at Home
- 13.4. Adapted Oral Nutrition

Module 14. Physiology of Pediatric Nutrition

- 14.1. Nutritional Requirements in the Different Periods of Childhood
- 14.2. Nutritional Assessment in Children
- 14.3. Physical Activity Evaluation and Recommendations
- 14.4. Nutrition During Pregnancy and Its Impact on the Newborn
- 14.5. Current Trends in the Premature New-Born Nutrition
- 14.6. Nutrition in Lactating Women and Its Impact on the Infant
- 14.7. Nutrition of Newborns with Intrauterine Growth Delay. Implications on Metabolic Diseases
- 14.8. Breastfeeding
- 14.9. Human Milk Banks
- 14.10. Concept and Characteristics of the Formulas Used in Infant Feeding
- 14.11. The Transition to Diversified Feeding. Complementary Feeding During the First Year of Life
- 14.12. Feeding 1–3 Year Old Children
- 14.13. Feeding During the Stable Growth Phase. Schoolchild Nutrition
- 14.14. Adolescent Nutrition. Nutritional Risk Factors
- 14.15. Child and Adolescent Athlete Nutrition
- 14.16. Other Dietary Patterns for Children and Adolescents. Cultural, Social, and Religious Influences on Infant Nutrition
- 14.17. Prevention of Childhood Nutritional Diseases. Objectives and Guidelines

Module 15. Artificial Nutrition in Pediatrics

- 15.1. Concept of Nutritional Therapy
 - 15.1.1. Evaluation of Patients in Need of Nutritional Support
 - 15.1.2. Indications
- 15.2. General Information about Enteral and Parenteral Nutrition
- 15.3. Dietary Products Used for Sick Children or Children with Special Needs
- 15.4. Implementing and Monitoring Patients with Nutritional Support
 - 15.4.1. Critical Patients
 - 15.4.2. Patients with Neurological Pathologies
- 15.5. Artificial Nutrition at Home
- 15.6. Nutritional Supplements to Support the Conventional Diet
- 15.7. Probiotics and Prebiotics in Pediatric Nutrition

Module 16. Pediatric Malnutrition

- 16.1. Pediatric Malnutrition and Undernutrition
 - 16.1.1. Psychosocial Aspects
 - 16.1.2. Pediatric Assessment
 - 16.1.3. Treatment and Follow-up
- 16.2. Nutritional Anemias
 - 16.2.1. Other Nutritional Anemias in Childhood
- 16.3. Vitamin and Micronutrient Deficiencies
 - 16.3.1. Vitamins
 - 16.3.2. Micronutrients
 - 16.3.3. Detection and Treatment
- 16.4. Fats in Pediatric Nutrition
 - 16.4.1. Essential Fatty Acids
- 16.5. Childhood Obesity
 - 16.5.1. Prevention
 - 16.5.2. Impact of Childhood Obesity
 - 16.5.3. Nutritional Treatment

Module 17. Nutrition and Pathologies in Childhood

- 17.1. Nutrition of Children with Oral Pathologies
- 17.2. Nutrition of Infants and Children with Gastroesophageal Reflux
- 17.3. Nutrition in Acute Diarrhea Situation
- 17.4. Nutrition in Children with Celiac Disease
- 17.5. Nutrition of the Child with Inflammatory Bowel Disease
- 17.6. Nutrition in Children with Digestive Malabsorption Syndrome
- 17.7. Nutrition in Children with Constipation
- 17.8. Nutrition in Children with Liver Disease
- 17.9. Eating Difficulties and Disorders in Children
 - 17.9.1. Physiological Aspects
 - 17.9.2. Psychological Aspects
- 17.10. Eating Disorders
 - 17.10.1. Anorexia
 - 17.10.2. Bulimia
 - 17.10.3. Others
- 17.11. Innate Problems With Metabolism
 - 17.11.1. Principles for Dietary Treatment
- 17.12. Nutrition in Dyslipidemias
- 17.13. Nutrition in the Diabetic Child
- 17.14. Nutrition in Autistic Children
- 17.15. Nutrition in Children with Cancer
- 17.16. Nutrition in Children with Chronic Pulmonary Pathology
- 17.17. Nutrition in Children with Nephropathy
- 17.18. Nutrition of the Child with Food Allergy and/or Intolerance
- 17.19. Childhood Nutrition and Bone Pathology





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You will be highly prepared to adapt nutritional interventions based on the patient's clinical progression”

04

Teaching Objectives

Thanks to this university program, specialists will gain advanced competencies to assess the nutritional status of patients. At the same time, they will be able to diagnose various nutritional imbalances and design individualized dietary plans tailored to each pathology. In this regard, graduates will apply sophisticated nutritional support techniques, interpreting clinical parameters with rigor. As a result, professionals will ensure safe, effective, and personalized interventions for patients in both hospital and outpatient settings.





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*You will stand out for your ethical, safe,
and evidence-based approach in the
practice of Clinical Nutrition”*



General Objectives

- Conduct a complete nutritional assessment of the patient, identifying risks and specific needs according to the clinical context
- Design personalized nutritional intervention plans for the treatment and prevention of Chronic and Acute Diseases
- Develop competencies for working in multidisciplinary teams within both hospital and outpatient settings
- Promote critical thinking, ethical reflection, and a commitment to continuous improvement in the professional practice of Clinical Nutrition



Specialized readings will allow you to further expand on the rigorous information provided in this university program”





Specific Objectives

Module 1. New Developments in Food

- ♦ Review the foundations of a balanced diet at different stages of the life cycle, as well as in exercise
- ♦ Assess and calculate nutritional requirements in health and disease at any stage of the life cycle
- ♦ Manage food databases and composition tables
- ♦ Acquire skills in reading and understanding new food labeling methods
- ♦ Update the drug-nutrient interaction and its implication in the patient's treatment
- ♦ Incorporate the possibilities of phytotherapy as an adjuvant treatment in clinical practice

Module 2. Current Trends in Nutrition

- ♦ Update knowledge in nutrigenetics and nutrigenomics
- ♦ Identify the relationship between nutrition and immune status
- ♦ In-depth study of the circadian system as a key factor in nutrition
- ♦ Identify and classify foods, food products, and food ingredients
- ♦ Review the chemical composition of foods, their physicochemical properties, nutritional value, and bioavailability

Module 3. Assessment of Nutritional Status and Diet Practical Application

- ♦ Analyze the different methods for assessing nutritional status
- ♦ Manage the different types of nutritional surveys to assess food intake
- ♦ Early detection and assessment of quantitative and qualitative deviations from the nutritional balance due to excess or deficiency
- ♦ Review basic aspects of food microbiology, parasitology, and toxicology related to food safety

Module 4. Nutritional Consultation

- ♦ Review the psychological bases and biopsychosocial factors that affect human eating behavior
- ♦ Delve into the techniques of interviewing and dietary counseling for the patient

Module 5. Sports Nutrition

- ♦ Evaluate and prescribe physical activity as a factor involved in nutritional status
- ♦ Identify the main eating disorders linked to sports practice

Module 6. Clinical Nutrition and Hospital Dietetics

- ♦ Delve into the management of hospital Nutrition units
- ♦ Distinguish the different basal and therapeutic diets used in hospital settings

Module 7. Nutrition in Digestive Tract Pathologies

- ♦ Understand the different oral disorders, as well as esophagogastric disorders
- ♦ Study common food allergies and intolerances with gastrointestinal impact

Module 8. Nutrition in Endocrine-Metabolic Diseases

- ♦ Delve into the advances in Diabetes Mellitus and hypertension
- ♦ Know the most effective endoscopic and surgical treatments for endocrine-metabolic diseases

Module 9. Nutrition in Kidney Diseases

- ♦ Delve into the characteristics of Chronic Renal Insufficiency
- ♦ Develop and implement strategies for prevention and early management of Chronic Renal Failure

Module 10. Nutrition in Neurological Diseases

- ♦ Know the most important developments in Parkinson's and Alzheimer's disease
- ♦ Delve into the causes of Stroke

Module 11. Nutrition in Special Situations

- ♦ Broaden knowledge regarding the treatment of oncology patients
- ♦ Understand the role of Nutrition in immune-mediated diseases



Module 12. Nutritional Deficiency Diseases

- ♦ Define a framework for action against anemia and hemochromatosis
- ♦ Delve into the relationship between diet and Oral Diseases

Module 13. Artificial Nutrition in Adults

- ♦ Distinguish enteral and parenteral nutrition with their main characteristics
- ♦ Know the advances in home artificial Nutrition
- ♦ Improve the nutritional status and quality of life of patients through different types of Nutrition
- ♦ Establish updated protocols for the prescription and follow-up of Nutrition

Module 14. Physiology of Pediatric Nutrition

- ♦ Update the relation between physiology and nutrition in the different stages of infant development
- ♦ Analyze the implications of nutrition in the growth process and in the prevention and treatment of different childhood pathologies
- ♦ Identify the repercussion that a pregnant and lactating mother's nutrition has on the intrauterine growth and evolution of new-borns and infants
- ♦ Describe the nutritional requirements in the different periods of childhood

Module 15. Artificial Nutrition in Pediatrics

- ♦ Identify children at nutritional risk who are eligible for specific support
- ♦ Evaluate and monitor the supervision of children on nutritional support
- ♦ Explain the new developments and available evidence on probiotics and prebiotics in infant feeding
- ♦ Explain the nutritional requirements of a sick child and the applications of enteral and parenteral nutrition

Module 16. Pediatric Malnutrition

- ♦ Develop plans to prevent pediatric malnutrition
- ♦ Address vitamin and trace element deficiencies with modern treatment methods
- ♦ In-depth study of the prevention and nutritional treatment of childhood obesity
- ♦ Get to know the most relevant psychosocial aspects of malnutrition

Module 17. Nutrition and Pathologies in Childhood

- ♦ Recognize the nutritional needs in various pediatric pathologies to guide appropriate dietary interventions
- ♦ Identify physiological, psychological, and metabolic alterations that affect nutrition in childhood
- ♦ Apply specific nutritional strategies based on the disease and the clinical condition of the child
- ♦ Promote a comprehensive and multidisciplinary approach in the nutritional management of children with medical conditions

05

Career Opportunities

TECH's Professional Master's Degree in Clinical Nutrition offers a unique opportunity to specialize in the nutritional management of health and disease. Through a practical, evidence-based, and clinically focused approach, this program equips professionals to apply their knowledge in various healthcare settings. Upon completion, graduates will be prepared to perform confidently and effectively in hospitals, clinics, specialized centers, or private practices, providing tailored nutritional solutions to meet the needs of each patient.



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Looking to work as a Clinical Nutritionist in Hospital Settings? Achieve this through this university program in just a few months”

Graduate Profile

Upon completing the TECH Professional Master's Degree in Clinical Nutrition, the professional will be prepared to integrate into multidisciplinary teams in hospitals, clinics, health centers, private practices, or socio-health institutions, actively participating in the nutritional assessment and treatment of patients. Additionally, graduates will be equipped to work in research areas, food service management, or the development of health promotion and disease prevention programs from a nutritional perspective.

You will lead rigorous research projects on the impact of nutrition in the treatment of pathologies such as Chronic Obstructive Pulmonary Disease (COPD).

- ♦ **Critical Thinking in Nutritional Intervention:** Ability to rigorously analyze complex clinical cases, make evidence-based decisions, and adapt dietary strategies according to the patient's progression
- ♦ **Effective Clinical Communication:** Skill in clearly conveying nutritional information to patients, families, and healthcare professionals, promoting adherence to dietary treatment
- ♦ **Ethical and Professional Commitment in the Clinical Field:** Responsibility to act ethically, respecting confidentiality, patient rights, and principles of equity in access to nutritional care
- ♦ **Safe Use of Diagnostic and Technological Tools:** Competence in handling clinical instruments and specialized software for nutritional assessment, ensuring precision and quality in patient care.





After completing the university program, you will be able to apply your knowledge and skills in the following positions:

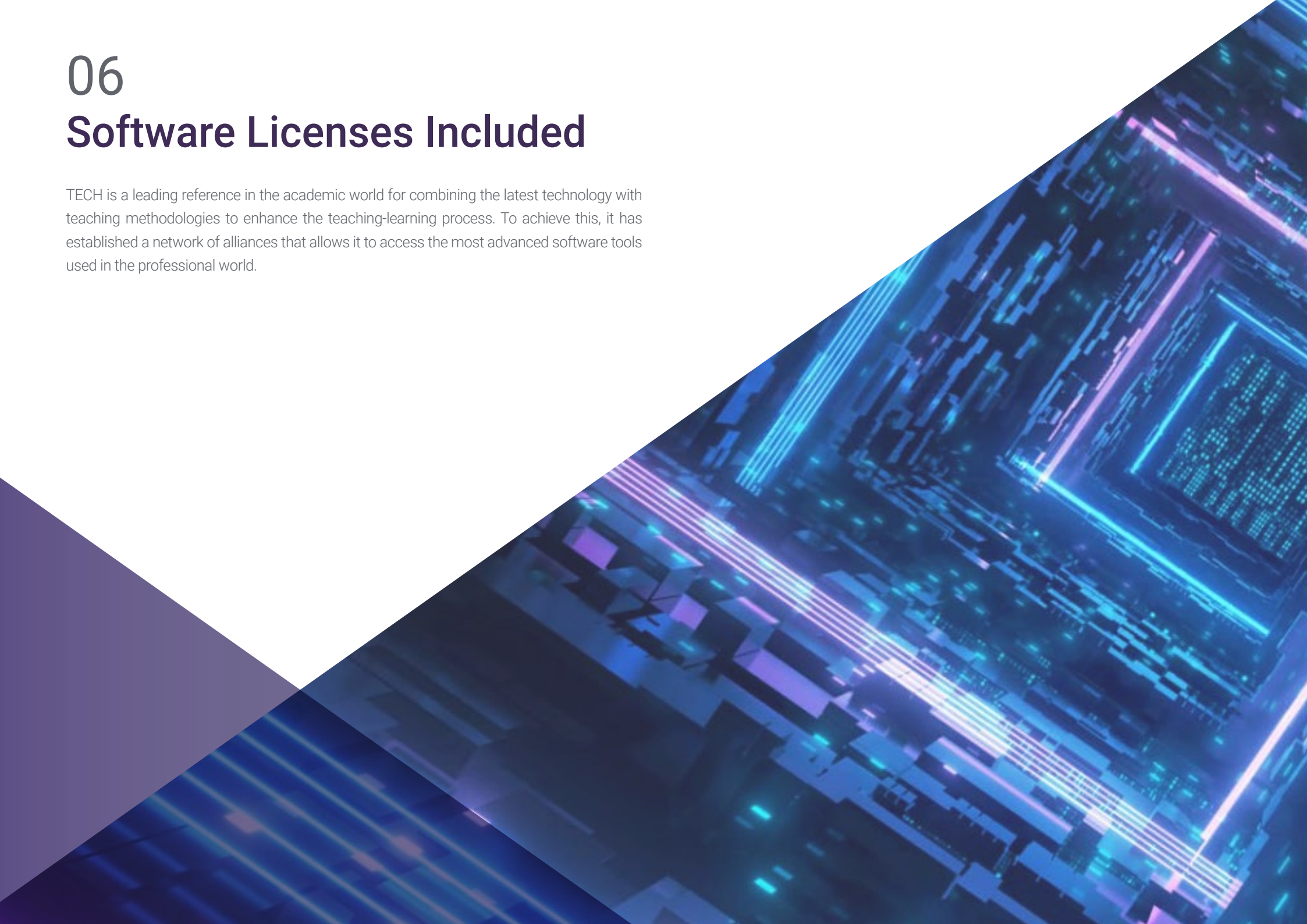
- 1. Clinical Nutritionist in Hospitals and Health Centers:** Responsible for assessing the nutritional status of hospitalized or outpatient patients, designing personalized meal plans, and collaborating in the comprehensive treatment of diseases from a nutritional perspective.
- 2. Specialist in Nutritional Support in Intensive Care Units or Chronic Patients:** In charge of planning and overseeing enteral or parenteral nutrition in patients with critical conditions or advanced diseases, ensuring adequate nutritional support in complex clinical situations.
- 3. Consultant in Socio-Health Centers or Geriatric Residences:** Manages the nutrition of institutionalized patients, ensuring a diet adapted to the nutritional and pathological needs of elderly individuals or those in situations of dependency.
- 4. Researcher in Clinical Nutrition and Public Health:** Leads scientific projects related to the relationship between nutrition and disease, evaluating dietary interventions, or developing new therapeutic approaches based on nutrition.
- 5. Manager of Food Services in Clinical Settings:** Supervises menu planning, the nutritional quality of meals, and food safety in hospitals, clinics, or other healthcare institutions.

“ You will gain advanced competencies in nutritional assessment, dietary diagnosis, and clinical follow-up of patients”

06

Software Licenses Included

TECH is a leading reference in the academic world for combining the latest technology with teaching methodologies to enhance the teaching-learning process. To achieve this, it has established a network of alliances that allows it to access the most advanced software tools used in the professional world.



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Upon enrolling, you will receive, completely free of charge, academic use credentials for the following professional software applications”

TECH has established a network of professional alliances with the leading providers of software applied to various professional fields. These alliances allow TECH to access hundreds of software applications and licenses, making them available to its students.

The academic software licenses will allow students to use the most advanced applications in their professional field, so they can become familiar with them and master their use without incurring additional costs. TECH will handle the contracting process, ensuring that students can use the software without limitations throughout their time in the Professional Master's Degree in Clinical Nutrition, and they will be able to do so completely free of charge.

TECH will provide free access to the following software applications:



DIETOPRO.COM
software de gestión dietético-nutricional

i-Diet

Nutrium

Accessing **Nutrium**, a professional platform valued at **200 euros**, is a unique opportunity to optimize patient management. This advanced system allows users to record medical histories, schedule appointments, send reminders, and conduct online consultations, facilitating communication through its mobile app.

Additionally, this exclusive and free-access license provides tools for tracking nutritional goals, enabling clients to update their progress in real time. This enhances treatment adherence and improves the effectiveness of dietary recommendations.

Key Features of Nutrium:

- ♦ **Complete Client Management:** Detailed records, appointment scheduling, and automatic reminders
- ♦ **Continuous Communication:** Online consultations and a mobile app for patients
- ♦ **Nutritional Goal Monitoring:** Tools to set and track specific objectives
- ♦ **Real-Time Updates:** Patients can directly report their progress
- ♦ **Treatment Efficiency:** Improved adherence and better outcomes for dietary plans

This platform, available **at no cost** during the program, will allow students to apply their knowledge practically, supporting a comprehensive and efficient approach to nutrition.

DietoPro

As part of our commitment to comprehensive and applied training, all students enrolled in this program will receive **free access** to the **DietoPro** license, specialized in nutrition and valued at approximately **30 euros**. This platform will be available throughout the course. Its use enriches the learning process, facilitating the immediate implementation of the knowledge acquired.

It is an advanced solution that allows users to create personalized plans, record and analyze daily intake, and receive recommendations tailored to each individual. Its intuitive interface and solid technological foundation provide a practical experience aligned with current standards of well-being and digital health.

Key Features:

- ♦ **Personalized Nutrition Planning:** Design meal plans tailored to specific goals, preferences, and requirements
- ♦ **Diet Tracking and Monitoring:** Facilitate nutritional control through dynamic reports and detailed nutrient analysis
- ♦ **Intelligent Suggestions:** Use artificial intelligence to propose adjustments and personalized recommendations
- ♦ **Integration with Health Devices:** Compatible with wearables and fitness apps for a comprehensive view of physical health
- ♦ **Educational Resources:** Access to content, guides, and expert advice to reinforce healthy habits and promote continuous learning

This **free license** offers a unique opportunity to explore professional tools, solidify theoretical knowledge, and make the most of a high-value practical experience.

i-Diet

Another exclusive benefit of this university program is **free access** to **i-Diet**, a nutritional assessment tool valued at **180 euros**. This flexible platform allows users to modify food and recipe databases, as well as add new elements intuitively.

i-Diet is designed to adapt to different professional needs, enabling the customization of nutritional plans from the first day of the course. The tool incorporates artificial intelligence in its calculations, developed with the support of the Department of Mathematical Modeling at ETSIMO, ensuring precision and scientific rigor in every assessment.

Key Features:

- ♦ **Editable Database:** Access to food and recipes with full customization options
- ♦ **AI-Powered Calculations:** Optimized algorithms for precise and efficient evaluations
- ♦ **Over 1,000 Supervised Recipes:** Content developed by dietitian-nutritionist Cristina Rodríguez Bernardo
- ♦ **Multiple Body Measurements:** Compatible with BIA, ultrasounds, infrared, skinfold calipers, and circumferences
- ♦ **Intuitive Interface:** Easy to use both in consultations and for clinical follow-up

Free access to **i-Diet** during the course provides an invaluable opportunity to apply theoretical knowledge, improve nutritional decision-making, and strengthen the technical skills of professionals.

07

Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.



“

TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”

The student: the priority of all TECH programs

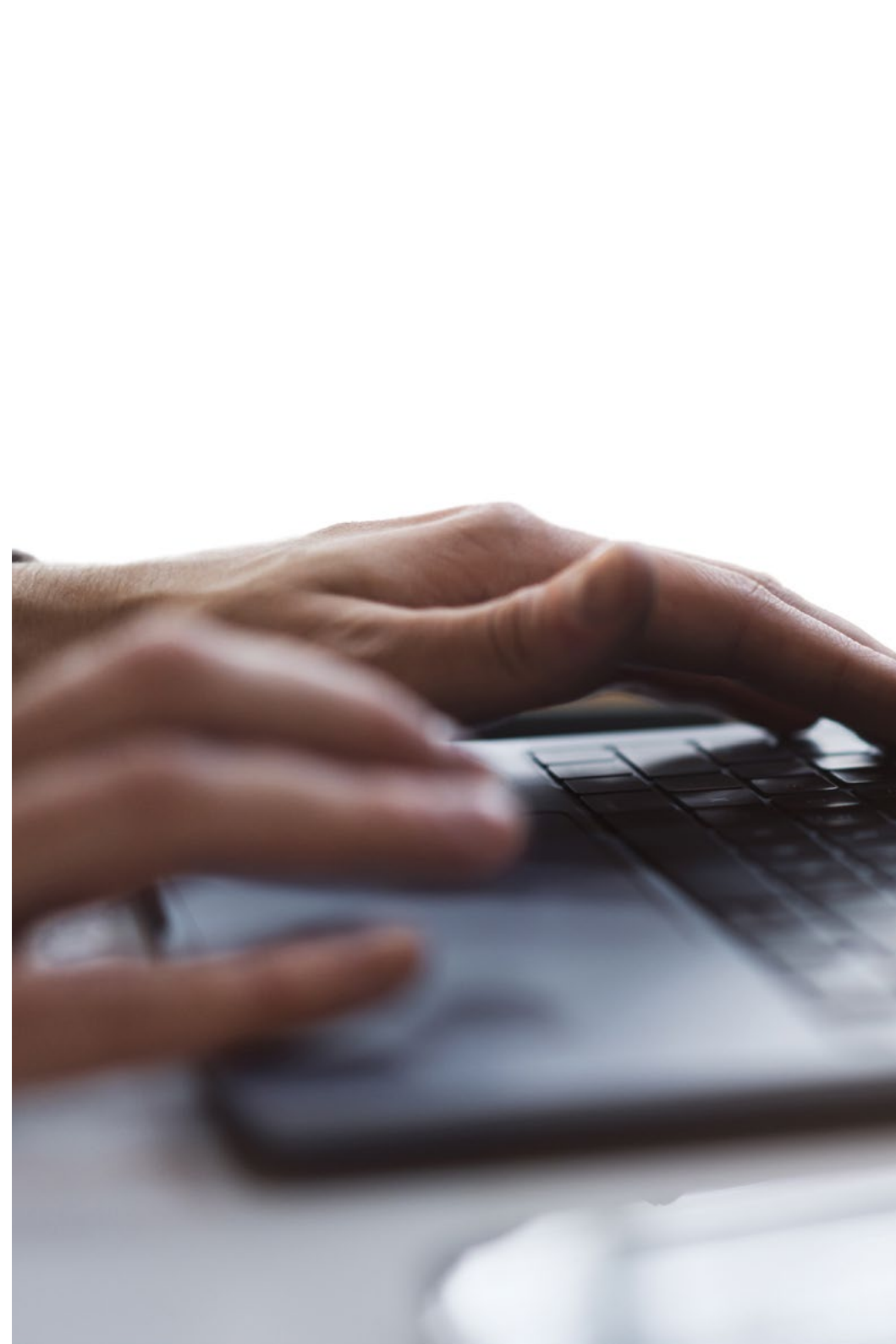
In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

“

*At TECH you will NOT have live classes
(which you might not be able to attend)”*



The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

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.



A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”

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 assess 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.

The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.

You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.



As such, the best educational materials, thoroughly prepared, will be available in this program:



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.

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.



Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



Interactive Summaries

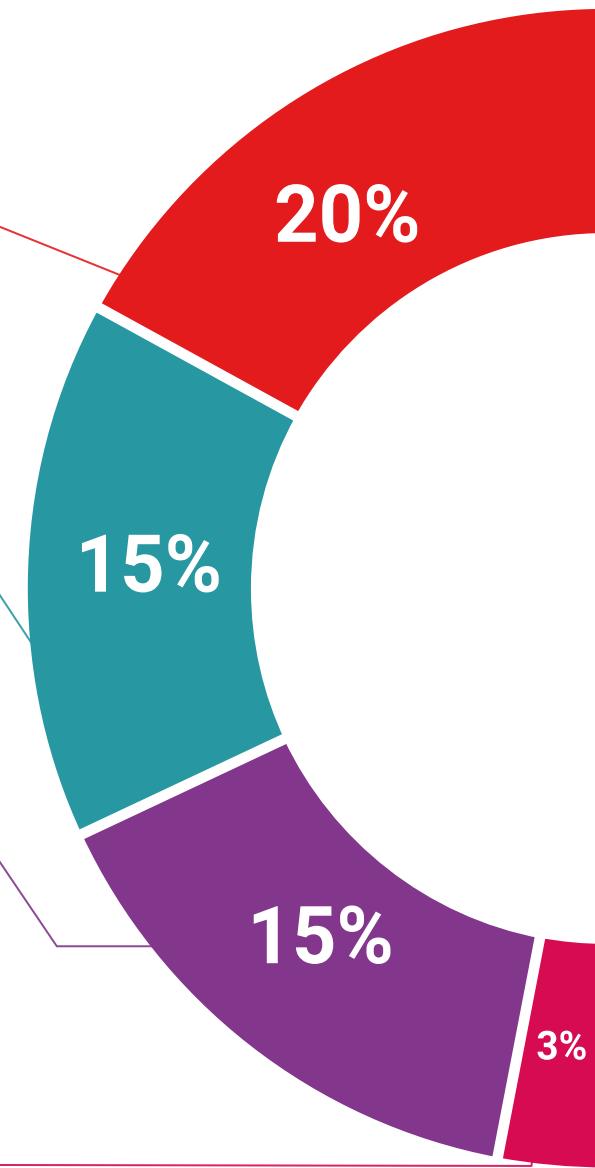
We present the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content 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 education.





Case Studies

Students will complete a selection of the best case studies in the field. Cases that are presented, analyzed, and supervised by the best specialists in the world.



Testing & Retesting

We periodically assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



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 for 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.



08

Teaching Staff

The faculty of the Professional Master's Degree in Clinical Nutrition at TECH is made up of a team of highly regarded professionals in the field of Nutrition and Health. This team includes nutritionists, researchers, and university professors. The faculty combines a strong academic background with extensive experience in hospital and clinical settings. Thanks to their commitment to excellence and continuous professional development, the instructors not only convey theoretical knowledge but also share real-world cases, practical strategies, and innovative approaches that enrich the learning process and prepare students for the challenges of today's professional environment.





“

You will benefit from personalized guidance from the faculty, composed of renowned specialists in Clinical Nutrition”

International Guest Director

Dr. Sumantra Ray is an internationally recognized specialist in **Nutrition** and his main areas of interest are **Nutrition Education in Health Systems** and **Cardiovascular Disease Prevention**. With his outstanding experience in this health field, he has served as a consultant on special assignment for the **Nutrition Directorate** of the **World Health Organization Headquarters** in Geneva. He has also worked as **Director of Research** in Food Security, Health and Society in the Faculty of Humanities and Social Sciences at the University of Cambridge.

For his constant commitment to the dissemination of healthy **eating habits**, he has received the **Josephine Lansdell Award** from the British Medical Association. Specifically, this recognition highlighted his contributions related to nutrition and **Cardiovascular Prevention**. Also, as an international expert, he has participated in a program of work on **Food, Nutrition and Education** in India, led by Cambridge University and funded by the UK Global Challenges Research Fund.

Dr. Sumantra Ray's studies are worldwide references, focusing on **global food security**, as it is a fundamental aspect for the development of societies. In addition, his leadership skills have been demonstrated as a **Senior Clinical Scientist** at the **Medical Research Council**, focusing on **Nutrition** and **Vascular Health** studies. In this position, he directed an experimental medicine facility dedicated to **Human Nutrition** studies.

Throughout his career he has authored more than **200 scientific publications** and has written the *Oxford Handbook of Clinical and Health Research*, aimed at strengthening the basic research skills of health care personnel worldwide. In this regard, he has shared his scientific findings in numerous lectures and conferences, in which he has participated in different countries.



Dr. Sumantra, Ray

- ♦ Executive Director and Founder at NNEdPro Global Nutrition and Health Center, Cambridge, UK
- ♦ Director of Research in Food Security, Health and Society at the Faculty of Humanities and Social Sciences, Cambridge University
- ♦ Co-Founder and President of the BMJ Scientific Journal Nutrition, Prevention and Health
- ♦ Presidential Advisor to the School of Advanced Studies in Food and Nutrition from the University of Parma
- ♦ Vice President of the Conference of Medical Academic Representatives of the BMA
- ♦ Consultant on special assignment to the Nutrition Directorate of the World Health Organization Headquarters in Geneva
- ♦ Honorary International Dean of the Cordia Colleges in India
- ♦ Senior Clinical Scientist with the Medical Research Council
- ♦ Bachelor's Degree in Medicine

“

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

Management



Dr. Auni3n Lavar3as, Mar3a Eugenia

- Pharmacist Clinical Nutrition Expert
- Author of the reference book in the field of Clinical Nutrition, *Dietary Management of Overweight in the Pharmacy Office* (Editorial M3dica Panamericana)
- Pharmacist with extensive experience in the public and private sector
- Head Pharmacist
- Assistant Pharmacist. Pharmacy Chain. British Health and Beauty Retailers Boots UK. Oxford Street Central London
- Bachelor's Degree in Food Science and Technology. University of Valencia
- Direction of the Dermocosmetic University Course. Pharmacy Office



09

Certificate

The Professional Master's Degree in Clinical Nutrition guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Global University..





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

This private qualification will allow you to obtain a **Professional Master's Degree in Clinical Nutrition** 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.

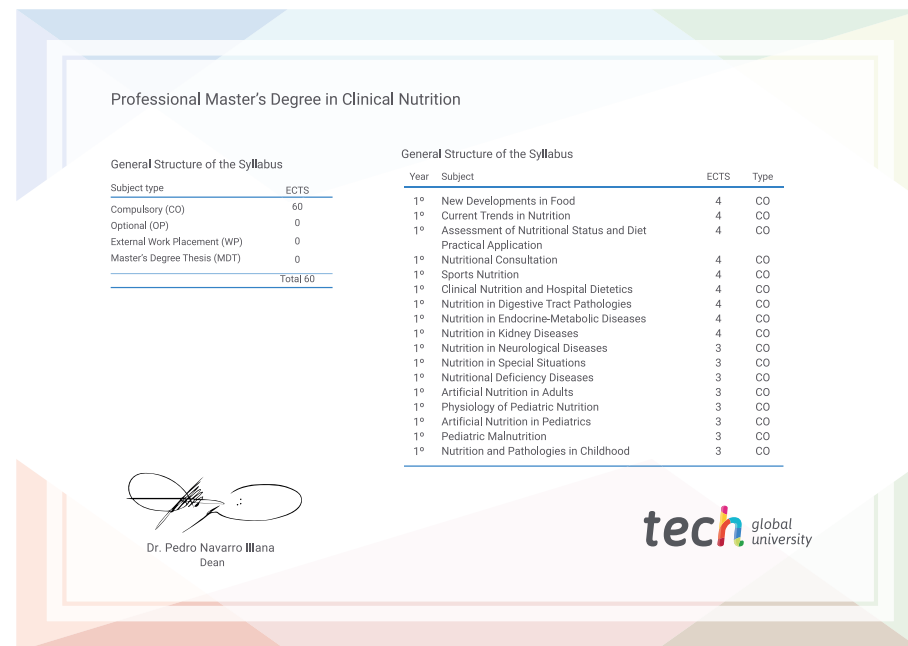
This **TECH Global University** private qualification is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: **Professional Master's Degree in Clinical Nutrition**

Modality: **online**

Duration: **12 months**

Accreditation: **60 ECTS**



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

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



Professional Master's Degree

Clinical Nutrition

- » Modality: online
- » Duration: 12 months
- » Certificate: TECH Global University
- » Credits: 60 ECTS
- » Schedule: at your own pace
- » Exams: online

Professional Master's Degree

Clinical Nutrition

