

Postgraduate Certificate

Vegetarianism and Veganism in Physical Activity and Sport

Endorsed by the NBA





Postgraduate Certificate Vegetarianism and Veganism in Physical Activity and Sport

- » Modality: online
- » Duration: 6 weeks
- » Certificate: TECH Technological University
- » Credits: 6 ECTS
- » Schedule: at your own pace
- » Exams: online

Website: www.techtute.com/us/medicine/postgraduate-certificate/vegetarianism-veganismin-physical-activity-sport

Index

01

Introduction

p. 4

02

Objectives

p. 8

03

Course Management

p. 12

04

Structure and Content

p. 16

05

Methodology

p. 20

06

Certificate

p. 28

01

Introduction

More and more athletes are opting for a diet that excludes foods of animal origin, whether for religious, ethical, environmental, etc. reasons. It is therefore essential that medical professionals update their knowledge of veganism and vegetarianism in order to be able to provide nutritional advice to athletes who choose this lifestyle.





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

Physicians must know the specific characteristics of foods in order to correctly recommend the appropriate diet for each type of effort, taking into account the special characteristics of each athlete. Therefore, it is essential that the medical professional knows how to provide nutritional advice to the vegetarian and vegan athlete in order to achieve maximum performance.

It has been shown that no single food is essential in the diet, since we can obtain the different nutrients from different food sources. However, due to the increased requirements of the athlete population and the risk involved in excluding any food group in obtaining nutrients, nutritional support is necessary in this type of population by a dietitian-nutritionist who is able to provide the athlete with the best options and food combinations.

As it is an online training, the student is not conditioned by fixed schedules or the need to move to another physical location, but can access the contents at any time of the day, balancing their work or personal life with their academic life.

This **Postgraduate Certificate in Vegetarianism and Veganism in Physical Activity and Sport** contains the most complete and up-to-date scientific program on the market. The most important features include: :

- ♦ The graphic, schematic and practical contents of the course are designed to provide all the essential information required for professional practice
- ♦ Exercises where the self-assessment process can be carried out to improve learning
- ♦ An algorithm-based interactive learning system, designed for decision making for patients with nutritional challenges
- ♦ 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



Learn the most suitable diets for each type of athlete and you will be able to give more personalized advice"

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This Postgraduate Certificate is the best investment you can make in the selection of a refresher program for two reasons: in addition to updating your knowledge in sports nutrition, you will obtain a program from TECH University of Technology”

Its teaching staff includes professionals belonging to the field of nutrition, who contribute their work experience to this 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 education programmed to learn in real situations.

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

The Postgraduate Certificate allows you to exercise in simulated environments that provide an immersive learning program in order to train in real situations.

Food and sport must go hand in hand, as it is essential that athletes follow a proper diet to help them improve their performance.



02 Objectives

The main objective of the program is the development of theoretical and practical learning, so that the medical professional can master in a practical and rigorous way the study of sports nutrition in special populations.



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This refresher program will generate a sense of security in the performance of your daily practice that will help you grow personally and professionally"



General Objectives

- ♦ Handle advanced knowledge on nutritional planning in professional and non-professional athletes for the healthy performance of physical exercise
- ♦ Manage advanced knowledge on nutritional planning in professional athletes of various fields in order to achieve maximum sports performance
- ♦ Learn advanced knowledge about nutritional planning in professional athletes from team sports to achieve the highest sports performance
- ♦ Manage and consolidate the initiative and entrepreneurial spirit to implement projects related to nutrition in physical activity and sport
- ♦ Know how to incorporate the different scientific advances into one's own professional field
- ♦ Ability to work in a multidisciplinary environment
- ♦ Advanced understanding of the context in which their area of expertise is being developed
- ♦ Manage advanced skills in the detection of possible signs of nutritional changes associated with sports activities
- ♦ Manage the necessary skills through the teaching-learning process that will allow them to continue ways and learning in the field of sports nutrition both through the contacts established with professors and professionals in the program as well as on their own
- ♦ Specialize in the structure of muscle tissue and its role in sports
- ♦ Know the energetic and nutritional needs of athletes in different pathophysiological situations
- ♦ Specialize in the energetic and nutritional needs of athletes in the different situations specific to age and gender
- ♦ Become a specialist in the dietary strategies for the prevention and treatment of injured athletes
- ♦ Specialize in the energetic and nutritional needs of child athletes
- ♦ Specialize in the energetic and nutritional needs of Paralympic athletes





Specific Objectives

- ♦ Differentiate between the different types of vegetarian athletes
- ♦ Gain an in-depth understanding of the main mistakes made
- ♦ Treat the notable nutritional deficiencies of sportsmen and sportswomen
- ♦ Manage skills to provide the athlete with the most effective tools to combine foods

03

Course Management

The teaching team, experts in Sports Nutrition, has a wide prestige in the profession and are professionals with years of teaching experience who have come together to help the student to give a boost to their profession. To this end, this Postgraduate Certificate has been developed with recent updates on the subject that will allow professionals to train and increase their skills in this sector.



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*Learn from the best professionals and
become a successful professional yourself”*

International Guest Director

Jamie Meeks has proven throughout her career her dedication to Sports Nutrition. After graduating from Louisiana State University with a degree in Sports Nutrition, he quickly rose to prominence. Her talent and commitment were recognized when she received the prestigious Young Dietitian of the Year award from the Louisiana Dietetic Association, an achievement that marked the beginning of a successful career.

After completing her bachelor's degree, Jamie Meeks continued her education at the University of Arkansas, where she completed her internship in Dietetics. She then went on to obtain a Master's Degree in Kinesiology with a specialization in Exercise Physiology from Louisiana State University. Her passion for helping athletes reach their full potential and her tireless commitment to excellence make her a leading figure in the sports and nutrition community.

Her deep knowledge in this area led her to become the first Director of Sports Nutrition in the history of Louisiana State University's athletic department. There, she developed innovative programs to meet the dietary needs of athletes and educate them on the importance of proper nutrition for optimal performance.

Subsequently, she has held the position of Director of Sports Nutrition for the NFL's New Orleans Saints. In this role, she is dedicated to ensuring that professional players receive the best nutritional care possible, working closely with coaches, trainers, physical trainers and medical staff to optimize individual performance and health.

As such, Jamie Meeks is considered a true leader in her field, being an active member of several professional associations and participating in the advancement of Sports Nutrition on a national level. In this regard, she is also a member of the Academy of Nutrition and Dietetics and the Association of Collegiate and Professional Sports Dietitians.



Ms. Meeks, Jamie

- Director of Sports Nutrition for the New Orleans Saints of the NFL, Louisiana, United States
 - Coordinator of Sports Nutrition at Louisiana State University
 - Registered Dietitian by the Academy of Nutrition and Dietetics
 - Certified Specialist in Sports Dietetics
 - Master's Degree in Kinesiology with a specialization in Exercise Physiology from Louisiana State University
 - Graduate in Dietetics from Louisiana State University
- Member of:
- Louisiana Dietetic Association
 - Association of Collegiate and Professional Sports Dietitians
 - Cardiovascular and Wellness Sports Nutrition Dietetic Practice Group

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

Management



Dr. Marhuenda Hernández, Javier

- ♦ Fellow of the Spanish Academy of Human Nutrition and Dietetics
- ♦ Professor and researcher at the Catholic UCAM University San Antonio in Murcia
- ♦ Ph.D. in Nutrition
- ♦ Master's Degree in Clinical Nutrition
- ♦ Graduate in Nutrition

Professors

D. Arcusa, Raúl

- ♦ Graduate in Human Nutrition and Dietetics
- ♦ Master's Degree in Nutrition in Physical Activity and Sport
- ♦ Anthropometrist ISAK level 1
- ♦ He is currently a doctoral student at the Department of Pharmacy of the UCAM, in the research line of Nutrition and Oxidative Stress, activity that he combines with his work as a nutritionist in the youth team of C.D. Castellón
- ♦ Possesses experience in different soccer teams in the Valencian community, as well as extensive experience in face-to-face clinical consultation

Mr. Martínez-Noguera, Javier

- ♦ Professional career associated from the beginning with nutrition in high performance sports (soccer, tennis, athletics, karate, etc.) and research
- ♦ He currently provides consultations in several sports centers and multidisciplinary clinics in Murcia and Alicante
- ♦ He carries out professional activities with high performance athletes at the Research Center for High Performance Sports (UCAM)
- ♦ He belongs to the OPENRED-UCAM research group, where he has carried out all his scientific production
- ♦ Collaboration with the Spanish Research Network on Cycling and Women



04

Structure and Content

The structure of the contents has been designed by a team of professionals knowledgeable about the implications of training in daily practice, aware of the current relevance of Sports Nutrition education; and committed to quality teaching through new educational technologies.



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This Postgraduate Certificate in Vegetarianism and Veganism in Physical Activity and Sport contains the most complete and up-to-date scientific program on the market"

Module 1. Vegetarianism and Veganism

- 1.1. Vegetarianism and Veganism in the History of Sport
 - 1.1.1 The Beginnings of Veganism in Sport
 - 1.1.2 Vegetarian Athletes Today
- 1.2. Different Types of Naturopathic Food
 - 1.2.1 The Vegan Athlete
 - 1.2.2 The Vegetarian Athlete
- 1.3. Common Errors in the Vegan Athlete
 - 1.3.1 Energy Balance.
 - 1.3.2 Protein Consumption
- 1.4. Vitamin B12
 - 1.4.1 B12 Supplementation
 - 1.4.2 Bioavailability of Spirulina Algae
- 1.5. Protein Sources in the Vegan/Vegetarian Diet
 - 1.5.1 Protein Quality
 - 1.5.2 Environmental Sustainability
- 1.6. Other Key Nutrients in Vegans
 - 1.6.1 Conversion of ALA to EPA/DHA
 - 1.6.2 Fe, Ca, Vit-D and Zn
- 1.7. Biochemical Assessment/Nutritional Deficiencies
 - 1.7.1 Anaemia
 - 1.7.2 Sarcopenia
- 1.8. Vegan Diet vs. Omnivorous Diet
 - 1.8.1 Evolutionary Food
 - 1.8.2 Current Food
- 1.9. Ergogenic Aids
 - 1.9.1 Creatine
 - 1.9.2 Vegetable Protein
- 1.10. Factors that Decrease Nutrient Absorption
 - 1.10.1 High Fiber Intake
 - 1.10.2 Oxalates





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

05 Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.



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Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

At TECH we use the Case Method

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

With TECH you will experience a way of learning that is shaking the foundations of traditional universities around the world.



According to Dr. 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.





06 Certificate

The Postgraduate Certificate in Vegetarianism and Veganism in Physical Activity and Sport guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.



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Include in your training a Postgraduate Certificate in Vegetarianism and Veganism in Physical Activity and Sport: a highly qualified added value for any medical professional”

This **Postgraduate Certificate in Vegetarianism and Veganism in Physical Activity and Sport** contains the most complete and up-to-date scientific on the market.

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

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

Title: **Postgraduate Certificate in Vegetarianism and Veganism in Physical Activity and Sport**

Official N° of Hours: **150 h.**

Endorsed by the NBA



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



Postgraduate Certificate
Vegetarianism and Veganism
in Physical Activity and Sport

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

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