

# Postgraduate Certificate Textile Technology



## Postgraduate Certificate Textile Technology

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

Website: [www.techtitute.com/us/design/postgraduate-certificate/textile-technology](http://www.techtitute.com/us/design/postgraduate-certificate/textile-technology)

# Index

01

Introduction

---

*p. 4*

02

Objectives

---

*p. 8*

03

Structure and Content

---

*p. 12*

04

Methodology

---

*p. 16*

05

Certificate

---

*p. 24*

# 01

# Introduction

Garments stand out not only for their originality and design, but also for their fabrics and colors. Therefore, designers must think of the final product as a whole that includes design, style, cut, textiles, drawings, colors, etc. A global image that includes a complete styling capable of attracting the public. Undoubtedly, creating a successful look requires a high level of specialization of professionals, and knowledge of the main textile technologies is the trump card they must use to ensure that the garment acquires added value. Thanks to this TECH program, designers will have the main tools to become specialists in the field, achieving high levels of recognition.



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*Textiles are a fundamental part of fashion design, since both the texture and the color of a garment can make the difference for it to be a success. Thanks to this program, you will learn to use the most appropriate techniques for each design”*

Textiles are a fundamental part of each garment. Its texture, coloring, the combination between different materials, etc. All this must be carefully analyzed by designers to find that fabric that offers a plus of quality to each garment, because not all garments can be created with the same textile, not even the same one can always be used for men or women, for example. Each circumstance will have a material and a technique that is more useful and, therefore, knowing the specific characteristics of each one is indispensable for designers.

This Postgraduate Certificate in Textile Technology from TECH aims to focus on these specific characteristics of yarns, openwork and knitted textiles, printing, dyeing, fur and synthetic leather, etc. In short, a complete review of the history of textile materials, from the most traditional to the most current, as well as the most used technologies, so that the designer obtains a deep knowledge that allows him to choose the most appropriate techniques and materials for each moment and creation.

In short, TECH aims to meet the high specialization objective demanded by fashion designers, who are looking for high quality programs to improve their skills and offer users garments that will become indispensable for their closet. And, to achieve this goal, it offers students a cutting-edge program adapted to the latest developments in the industry, with an absolutely current curriculum developed by experienced professionals willing to put all their knowledge at the disposal of their students. It should be noted that, being a 100% online Postgraduate Certificate, students will not be conditioned by fixed schedules or the need to move to another physical location, but will be able to access all the contents at any time of the day, balancing their work and personal life with their academic one.

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

- ◆ Practical cases presented by experts in fashion
- ◆ The graphic, schematic, and practical contents with which they are created, provide 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 the study of main textile technologies
- ◆ 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



*Knowing the characteristics of each textile will allow you to choose the most suitable for your designs, providing better quality in your garments”*

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*TECH offers you the most innovative teaching methodology in the current academic panorama”*

The program's teaching staff includes professionals from the fashion industry, who contribute with their work experience, as well as renowned specialists from leading companies and prestigious universities.

Its multimedia content, developed with the latest educational technology, will allow professionals to learn in a contextual and situated learning environment, i.e., a simulated environment that will provide immersive specialization for real situations.

The design of this program focuses on Problem-Based Learning, by means of which professionals must try to solve the different professional practice situations that are presented to them throughout the academic year. For this purpose, students will be assisted by an innovative interactive video system developed by renowned experts.

*The theoretical and practical contents of this program will help you to specialize in a short time.*

*The online mode of this Postgraduate Certificate will allow you to study at any time of the day and from anywhere in the world.*



# 02 Objectives

This Postgraduate Certificate Textile Technology is aimed at facilitating the performance of professionals to acquire and learn the main developments in this field, which will allow them to perform their daily work with the highest quality and professionalism. In this way they will be better trained to develop successfully in a booming sector in which new concepts and trends are constantly emerging, both in terms of materials and textile techniques, which must be recognized and applied by professionals.





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*Thanks to this program, you will learn about the main textile materials that you can apply to your creations, as well as the latest technologies in this field”*



## General Objectives

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- ◆ Obtain a detailed knowledge of fashion design that will be relevant to the work of professionals who wish to develop in this current field
- ◆ Be able to design successful fashion projects
- ◆ Delve into the different textile materials

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*If you are looking for a radical change at a professional level, don't think twice and enroll in this Postgraduate Certificate”*





## Specific Objectives

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- ◆ Identify different types of textile fibers
- ◆ Select a textile material for a specific design according to its properties
- ◆ Know the dyeing techniques
- ◆ Mastering the different types of weaves for openwork fabrics
- ◆ Know the properties of the different materials and the techniques for their manipulation and elaboration
- ◆ Know the main textile printing techniques

# 03

## Structure and Content

This Postgraduate Certificate's content covers, in a structured way, all the areas of knowledge that fashion professionals need to know in-depth, including the most interesting developments and latest advances in the sector. A high-quality program that will allow students to compete with solvency and sufficient capacity in a highly competitive industry. To this purpose, the syllabus has been designed by professionals with extensive experience, who have captured all their expertise in a program that will be indispensable in professionals' resumes in the 21st century.



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*This Postgraduate Certificate will allow you to obtain the most updated knowledge on the main textile technologies”*

## Module 1. Textile Technology

- 1.1. Introduction to Textiles
  - 1.1.1. History of Textiles
  - 1.1.2. Textiles Over Time
  - 1.1.3. Traditional Textile Machinery
  - 1.1.4. The Importance of Textiles in Fashion
  - 1.1.5. Symbolism Used in Textile Materials
  - 1.1.6. Fabric Technical Data Sheet
- 1.2. Textile Materials
  - 1.2.1. Classification of Textile Fibers
    - 1.2.1.1. Natural Fibers
    - 1.2.1.2. Artificial Fibers
    - 1.2.1.3. Synthetic Fibers
  - 1.2.2. Properties of the Fibers
  - 1.2.3. Recognizing Textile Fibers
- 1.3. Threads
  - 1.3.1. Basic Ligaments
  - 1.3.2. General Characteristics of Threads
  - 1.3.3. Classification of Threads
  - 1.3.4. Spinning Phases
  - 1.3.5. Machines Used
  - 1.3.6. Yarn Numbering Systems
- 1.4. Openwork Textiles
  - 1.4.1. Openwork Fabrics
  - 1.4.2. Ligament Staggering
  - 1.4.3. Ligaments in Openwork Fabrics
  - 1.4.4. Classification of Ligaments
  - 1.4.5. Types of Ligaments
  - 1.4.6. Types of Openwork Fabrics
  - 1.4.7. The Openwork Weave
  - 1.4.8. Special Weaves



- 1.5. Knitted Fabrics
  - 1.5.1. History of Knitted Fabric
  - 1.5.2. Classification
  - 1.5.3. Typology
  - 1.5.4. Comparison Between Flat Fabric and a Knitted One
  - 1.5.5. Characteristics and Behavior According to its Construction
  - 1.5.6. Technology and Machinery for Obtaining It
- 1.6. Textile Finishes
  - 1.6.1. Physical Finishes
  - 1.6.2. Chemical Finishes
  - 1.6.3. Fabric Resistance
  - 1.6.4. Pilling
  - 1.6.5. Dimensional Change of Fabrics
- 1.7. Dye
  - 1.7.1. Previous Treatment
  - 1.7.2. Dye
  - 1.7.3. Machinery
  - 1.7.4. Inputs
  - 1.7.5. Optical Brightening
  - 1.7.6. Color
- 1.8. Printing
  - 1.8.1. Direct Printing
    - 1.8.1.1. Block Printing
    - 1.8.1.2. Roller Printing
    - 1.8.1.3. Thermotransfer Printing
    - 1.8.1.4. Screen Printing
    - 1.8.1.5. Warp Printing
    - 1.8.1.6. Corrosion Printing
  - 1.8.2. Reserve Printing
    - 1.8.2.1. Batik
    - 1.8.2.2. Tie-Dye
  - 1.8.3. Other Types of Printing
    - 1.8.3.1. Differential Printing
    - 1.8.3.2. Polychromatic Electrostatic
- 1.9. Technical and Intelligent Fabrics
  - 1.9.1. Definition and Analysis
  - 1.9.2. Application of Textiles
  - 1.9.3. New Materials and Technologies
- 1.10. Skin, Leather and Others
  - 1.10.1. Skin and Leather
  - 1.10.2. Classification of Leather
  - 1.10.3. Tanning Process
  - 1.10.4. Post-Tanning Process
  - 1.10.5. Technological Process of Tanning
  - 1.10.6. Conservation Methods
  - 1.10.7. Synthetic Leather
  - 1.10.8. Debate: Natural or Synthetic Leather



*A unique academic experience  
necessary to succeed in a  
highly competitive industry”*

# 04

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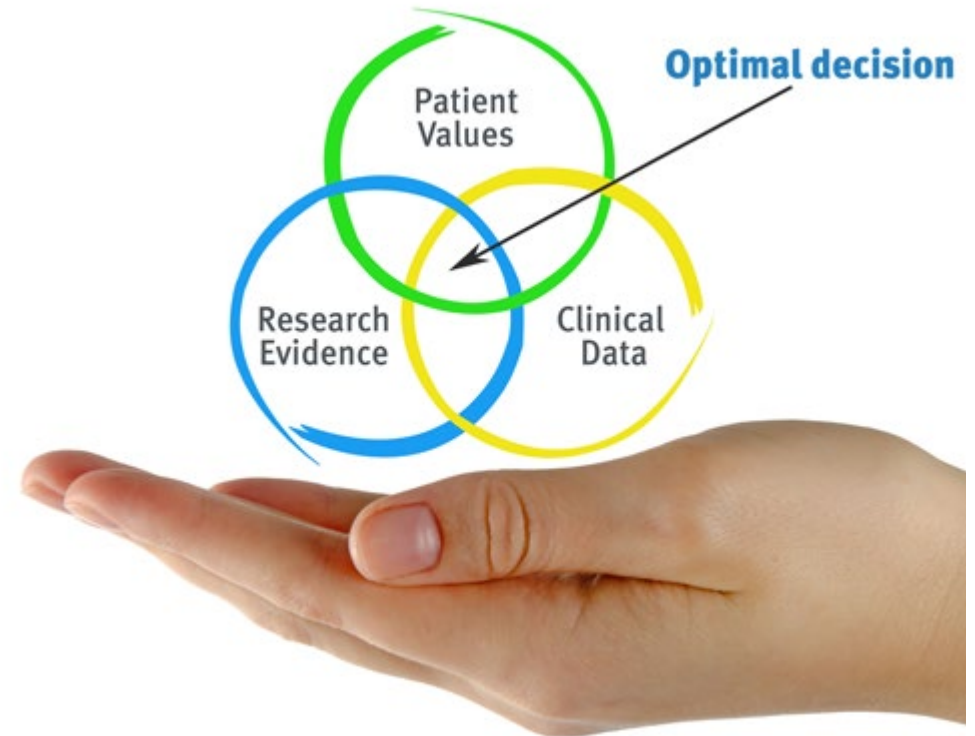
*Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"*

## Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.



*At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world"*



*You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.*



*The student will learn to solve complex situations in real business environments through collaborative activities and real cases.*

### A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

“*Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question we face in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

## Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

*In 2019, we obtained the best learning results of all online universities in the world.*

At TECH you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



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.

With this methodology we have trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, markets, and financial instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

*Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.*

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



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.



### 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 future difficult decisions.



### Practising Skills and Abilities

They will carry out activities to develop specific competencies and skills in each thematic area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



### 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.





#### Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



#### 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".



#### Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



# 05 Certificate

The Postgraduate Certificate in Textile Technology 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 Postgraduate Diploma without having to travel or fill out laborious paperwork”*

This program will allow you to obtain your **Postgraduate Certificate in Textile Technology** 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 Certificate in Textile Technology**

Modality: **online**

Duration: **6 weeks**

Accreditation: **6 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



## Postgraduate Certificate Textile Technology

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

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