

# Postgraduate Certificate Textile Printing Methods



## Postgraduate Certificate Textile Printing Methods

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

Website: [www.techtute.com/us/design/postgraduate-certificate/postgraduate-certificate-textile-printing-methods](http://www.techtute.com/us/design/postgraduate-certificate/postgraduate-certificate-textile-printing-methods)

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# 01

# Introduction

The new textile printing methods have favored the appearance of fabrics of higher quality and durability, which will allow the new designs to remain as new for much longer, maintaining those colors that seem original. Therefore, it is of great value for the designer to know which are the main techniques in this field, with the aim of being able to select the most appropriate for their creations, offering the public innovative designs and elaborated with the most avant-garde methods. Undoubtedly, with this TECH program, students will be up to date in this field, reaching the excellence that professionals in this industry should seek.





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*Textile printing allows the creation of creative designs thanks to the coloring applied to fabrics. Therefore, having a broad knowledge of these techniques is essential for designers”*

Delving into Textile Printing Methods is of great interest to fashion designers, both for those who are entering this field for the first time, as well as for those who have extensive experience in the industry, but wish to update their knowledge. This is due to the appearance of new methods that favor the dyeing of fabrics, giving them greater quality and durability. Undoubtedly, a designer who has a great knowledge in this field will have an extra value to bring to their work and, therefore, will be better able to develop professionally successfully, making their designs known and acquired by the public.

To improve the knowledge of these professionals in this field, TECH has created a program of high academic level, which includes the latest information on the subject. Specifically, the syllabus ranges from the history of printing, dyeing, pretreatments, machinery, color and natural dyes to quality controls in dyed textiles, among other topics of great interest and relevance in this field.

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 Printing Methods** 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 scientific and practical information on the disciplines that are essential for professional practice
- ◆ Practical exercises where self-assessment can be used to improve learning
- ◆ Special emphasis on innovative methodologies in Textile Printing Methods
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable electronic device with an Internet connection



*Learn the main Textile Printing Methods and use high-quality techniques in your designs”*

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*A 100% online program with which you can study from anywhere in the world and at the time that suits you best”*

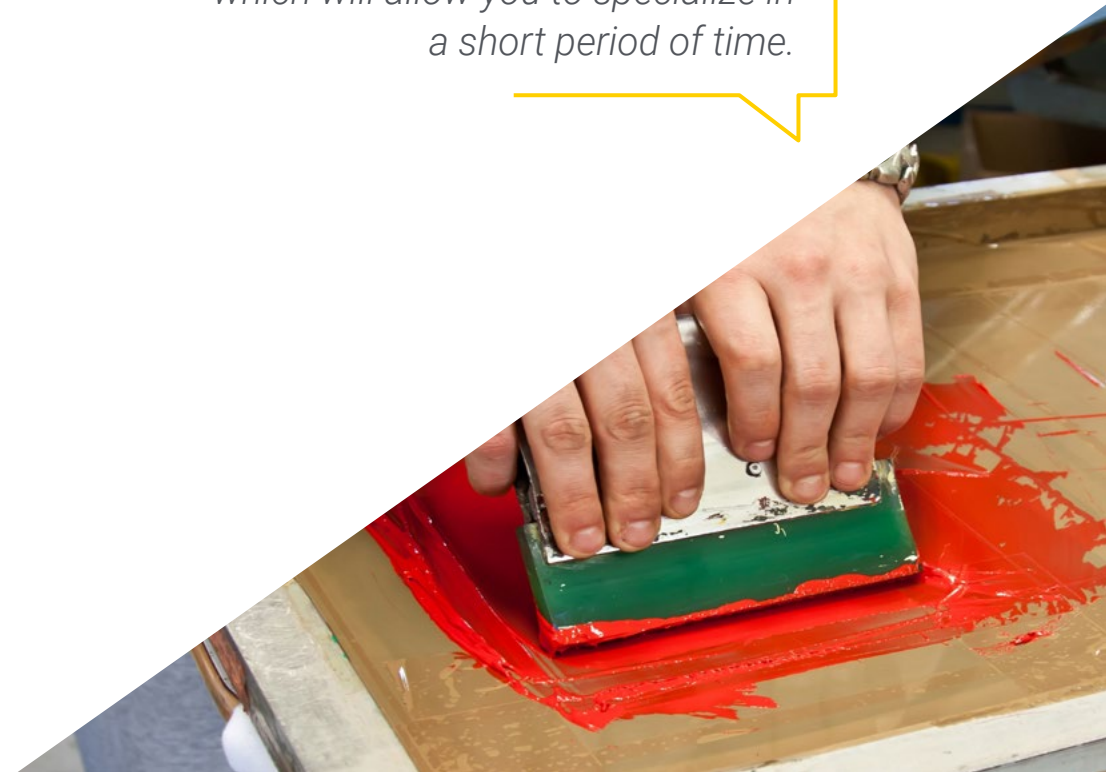
The program's teaching staff includes professionals from the fashion industry, who contribute with their work experience, as well as renowned specialists from leading companies and prestigious universities.

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, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*TECH provides you with a multitude of didactics resources that will be indispensable to improve your knowledge in this field.*

*Study with a comprehensive theoretical and practical content, which will allow you to specialize in a short period of time.*



# 02 Objectives

This Postgraduate Certificate in Textile Printing Methods 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 prepared to develop successfully in a booming sector in which new concepts and trends are constantly emerging and must be recognized and applied by professionals.







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*Develops the necessary skills to successfully apply the different textile printing techniques”*



## 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
- ◆ Know all the processes for textile printing, from the most traditional to the most innovative techniques

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*Achieve your academic objectives thanks to this very complete TECH program”*





## Specific Objectives

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- ◆ Know the most important textile printing techniques
- ◆ Differentiate the suitable and specific medium for each printing technique
- ◆ Analyze the possible technical problems that may arise when printing on a given design
- ◆ Look for practical, methodological and alternative solutions that allow textile printing as a design resource
- ◆ Promote design resources and sources

# 03

## Structure and Content

The content of this Postgraduate Certificate 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 study 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' résumés in the 21st century.



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*The most comprehensive syllabus,  
prepared by professionals with  
extensive experience in the field”*

## Module 1. Textile Printing Methods

- 1.1. History of Printing
  - 1.1.1. History of Printing
  - 1.1.2. Evolution of Printings
  - 1.1.3. Printing Systems
- 1.2. Previous Treatment
  - 1.2.1. Gassing
  - 1.2.2. Thermosetting
  - 1.2.3. De-gumming
  - 1.2.4. Scouring
  - 1.2.5. Bleaching
  - 1.2.6. Mercerizing
  - 1.2.7. Antipilling
  - 1.2.8. Carbonizing
  - 1.2.9. Decorticated
  - 1.2.10. Washing
  - 1.2.11. Hydroextraction
  - 1.2.12. Drying
  - 1.2.13. Opening of Tubular Knitwear
- 1.3. Dye
  - 1.3.1. Discontinuous Dyeing
  - 1.3.2. Continuous Dyeing
  - 1.3.3. Defects of a Bad Dyeing
- 1.4. Machinery
  - 1.4.1. Discontinuous Processes
  - 1.4.2. Dyeing with Impregnation in Foulard (PAD)
  - 1.4.3. Semi-Continuous Processes
- 1.5. Inputs
  - 1.5.1. Water
  - 1.5.2. Chemicals
  - 1.5.3. Auxiliary Products
  - 1.5.4. Dyes
  - 1.5.5. Enzymes
  - 1.5.6. Optical Brighteners



- 1.6. Examples of Processes
  - 1.6.1. Cotton Processing
  - 1.6.2. Polyester Processing
  - 1.6.3. Wool Dyeing
  - 1.6.4. Dyeing of Acrylic Fibers
  - 1.6.5. Optical Brightening
- 1.7. Color
  - 1.7.1. Study of Color
  - 1.7.2. Modification of Color Attributes
  - 1.7.3. Instruments to Measure Color
- 1.8. Quality Control in Dyed Textiles
  - 1.8.1. Visual Evaluation of Color
  - 1.8.2. Evaluation of Color Difference
  - 1.8.3. Spectrophotometry
  - 1.8.4. Dye Bath Control
  - 1.8.5. Color Fastness
- 1.9. Natural Dyes
  - 1.9.1. Historical Background of Natural Dyes
  - 1.9.2. Natural Dyes
  - 1.9.3. Techniques for the Application of Natural Dyes on Different Materials and Surfaces
  - 1.9.4. Reserve Techniques
  - 1.9.5. The P.H (Potential Hydrogen)
  - 1.9.6. Materials and Tools for the Natural Dyeing Workshop
  - 1.9.7. Techniques for Extracting Pigmentation
  - 1.9.8. Preservation of Dyes
  - 1.9.9. Bleaches
  - 1.9.10. Fixatives or Mordants
  - 1.9.11. Toners
  - 1.9.12. Dyeing Plants

- 1.10. Printing
  - 1.10.1. Stamping Techniques
  - 1.10.2. Stamping Materials
  - 1.10.3. Stamping Styles
  - 1.10.4. Embroidery and Fabric manipulation
  - 1.10.5. Embroidery Techniques
  - 1.10.6. Ornaments



*Go through the main Textile  
Printing Methods”*

# 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.

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*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 Printing Methods 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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*Successfully complete this program and receive your Postgraduate Certificate without having to travel or fill out laborious paperwork”*

This **Postgraduate Certificate in Textile Printing Methods** contains the most complete and up-to-date program 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 Textile Printing Methods**

Official N° of Hours: **150 h.**



\*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.

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



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