Postgraduate Certificate
Colorimetry

tech technological university

tech technological university

Postgraduate Certificate
Colorimetry

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

Website: www.techtitute.com/us/design/postgraduate-certificate/colorimetry

Index

01

Introduction

Colors favor people more or less according to their physical characteristics: anatomy, skin tone, etc. But they can also be related to different personality types. The study of this symbology is fundamental in fashion design, since choosing the appropriate colors will help a collection to be successful in the market. This program on Colorimetry offers students the possibility of accessing the most relevant information on this field, from professionals with extensive experience, so they can apply all this knowledge to their daily work.

Choosing a certain color for a garment cannot be based on simple preference. Every color has meaning and significance, so specializing in this field will help designers make their work successful"

Colorimetry is very important in the fashion industry. In the case of fashion consultants, it is essential that they understand which colors suit people best according to their physical anatomy and skin tone, as well as their personal characteristics. Each person will be more comfortable with a series of colors and, in some cases, will have more than one shade banished from their wardrobe. However, for fashion designers, knowledge in this field goes beyond that, as their creations must be in line with the season's trends, becoming prescribers of fashion color, which will ultimately be used by a large percentage of society in a given season.

This program in Colorimetry has been designed by TECH with the objective of bringing fashion professionals closer to the in-depth study of colors, which will be fundamental for their successful development within the industry. And, for this, it offers its students a very comprehensive syllabus, which includes aspects related to the theory of color or its perception, color models and standardization, the composition and functions of the image, the meaning of each color, or the application of color to design, among other very useful topics for professionals 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 sector, with an up-to-date syllabus developed by experienced professionals who are willing to put all their knowledge at the disposal of their students. It should be noted that since it is a 100% online program, students are 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 professional and personal life with their academic life.

This **Postgraduate Certificate in Colorimetry** contains the most complete and up-to-date educational 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 Colorimetry
- 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

Fashion designers who have extensive knowledge of colorimetry will be able to choose the most appropriate color for each garment and user"

The online modality of this program will allow you to study from anywhere in the world"

This Postgraduate Certificate offers you the possibility of accessing a multitude of theoretical and practical resources.

TECH is committed to practical teaching as a basis for promoting knowledge.

This program's teaching staff includes professionals from the field of Fashion, who bring their work experience to this program, as well as renowned specialists from leading communities and prestigious universities.

Its multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will deliver an immersive learning experience, programmed to prepare for real situations.

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

02

Objectives

This Postgraduate Certificate in Colorimetry is oriented to facilitate professionals' performance in order for them to acquire and learn the main novelties in this field, which will allow them to practice their daily work with the highest quality and professionalism. 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.

TECH's goal is to help professionals improve their qualifications to become more competitive in the fashion industry"

General Objectives

- 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
- Obtain a deep knowledge of the different characteristics of colors, which will be very useful with regards to applying the most appropriate for each garment

This Postgraduate Certificate will allow you to know, in-depth, the characteristics of colors and successfully advise customers"

Specific Objectives

- Gain theoretical and practical knowledge and understanding of the phenomenon of color in its different fields
- Know the different tools and updated resources for the use of color in design and to handle the different means of color application, both manual and digital, in the design process
- Understand how to apply color by taking advantage of chromatic resources and international standard dimensions to achieve specific objectives in design projects
- Analyze and differentiate the main laws of visual perception with the nomenclature and language of the specialty
- Understand the basic schemes of compositional arrangement in design

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 news and updates in the sector. A high-quality program that will allow students to compete proficiently and competently 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.

A program designed by experts in the field so you can specialize in Colorimetry in a fast and efficient way"

Module 1. Colorimetry

1.1. Color Theory
- 1.1.1. Perception of Form and Space
- 1.1.2. Color. Definition
- 1.1.3. Color perception
- 1.1.4. Color Properties or Dimensions
- 1.1.5. Color Classification

1.2. Color Perception
- 1.2.1. The Human Eye
- 1.2.2. Color Vision
- 1.2.3. Variables in Color Perception
- 1.2.4. Non-Visual Color Perception

1.3. Color Modeling and Standardization
- 1.3.1. History of Color
  - 1.3.1.1. First Theories
  - 1.3.1.2. Leonardo Da Vinci
  - 1.3.1.3. Isaac Newton
  - 1.3.1.4. Moses Harris
  - 1.3.1.5. Goethe
  - 1.3.1.6. Runge
  - 1.3.1.7. Chevreul
  - 1.3.1.8. Rood
  - 1.3.1.9. Munsell
  - 1.3.1.10. Ostwald
- 1.3.2. Visual Perception
  - 1.3.2.1. Absorption and Reflection
  - 1.3.2.2. Pigment Molecules
- 1.3.3. Color Attributes
  - 1.3.3.1. Tone
  - 1.3.3.2. Luminance
  - 1.3.3.3. Saturation
- 1.3.4. Warm and Cool Colors
- 1.3.5. Harmony in Colors
- 1.3.6. Contrast
- 1.3.7. Color Effects
  - 1.3.7.1. Size
  - 1.3.7.2. Transparency, Weight and Mass

1.4. Semiotics and Semantics of Color
- 1.4.1. Semiotics of Color
- 1.4.2. Color Description
- 1.4.3. Colors: Material, Light, Perceptions, Sensations.
- 1.4.4. Color and Material
- 1.4.5. The Truth of a Color
- 1.4.6. Color Perception
- 1.4.7. The Weight of a Color
- 1.4.8. The Color Dictionary

1.5. Color in Design
- 1.5.1. Chromatic Trends
- 1.5.2. Graphic Design
- 1.5.3. Interior Design
- 1.5.4. Architecture
- 1.5.5. Landscape Design
- 1.5.6. Fashion Design

1.6. Composition
- 1.6.1. General Aspects
  - 1.6.1.1. Codes Used
  - 1.6.1.2. Originality and Banality
  - 1.6.1.3. Degree of Iconicity and Abstraction
- 1.6.2. Configurational Organization of the Image: Relation between Background and Figure
- 1.6.3. Configurational Organization of the Image: Gestalt Laws
- 1.6.4. Configurational Organization of the Image: Systems of Spatial Organization
  - 1.6.4.1. Balance: Static or Dynamic. Focal or Orthogonal System
  - 1.6.4.2. Proportion
  - 1.6.4.3. Symmetry
  - 1.6.4.4. Movement and Rhythm
- 1.6.5. Field Study

1.7. Image Functions
- 1.7.1. Representative
  - 1.7.1.1. Cartographic
  - 1.7.1.2. Scientist
  - 1.7.1.3. Architectural
  - 1.7.1.4. Projectual
- 1.7.2. Persuasive
- 1.7.3. Artistic

1.8. Color Psychology
- 1.8.1. Warm Colors and Cool Colors
- 1.8.2. Physiological Effects
- 1.8.3. Color Symbolism
- 1.8.4. Personal Color Preferences
- 1.8.5. Emotional Effects
- 1.8.6. Local Color and Expressive

1.9. The Meaning of Color
- 1.9.1. Blue
- 1.9.2. Red
- 1.9.3. Yellow
- 1.9.4. Green
- 1.9.5. Black
- 1.9.6. White
- 1.9.7. Orange
- 1.9.8. Violet
- 1.9.9. Pink
- 1.9.10. Gold
- 1.9.11. Silver
- 1.9.12. Brown
- 1.9.13. Gray

1.10. Color Use
- 1.10.1. Sources of Dyes and Pigments
- 1.10.2. Lighting
- 1.10.3. Mixture of Oils and Acrylics
- 1.10.4. Glazed Ceramics
- 1.10.5. Colored Glass
- 1.10.6. Color Printing
- 1.10.7. Color Photography

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.

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

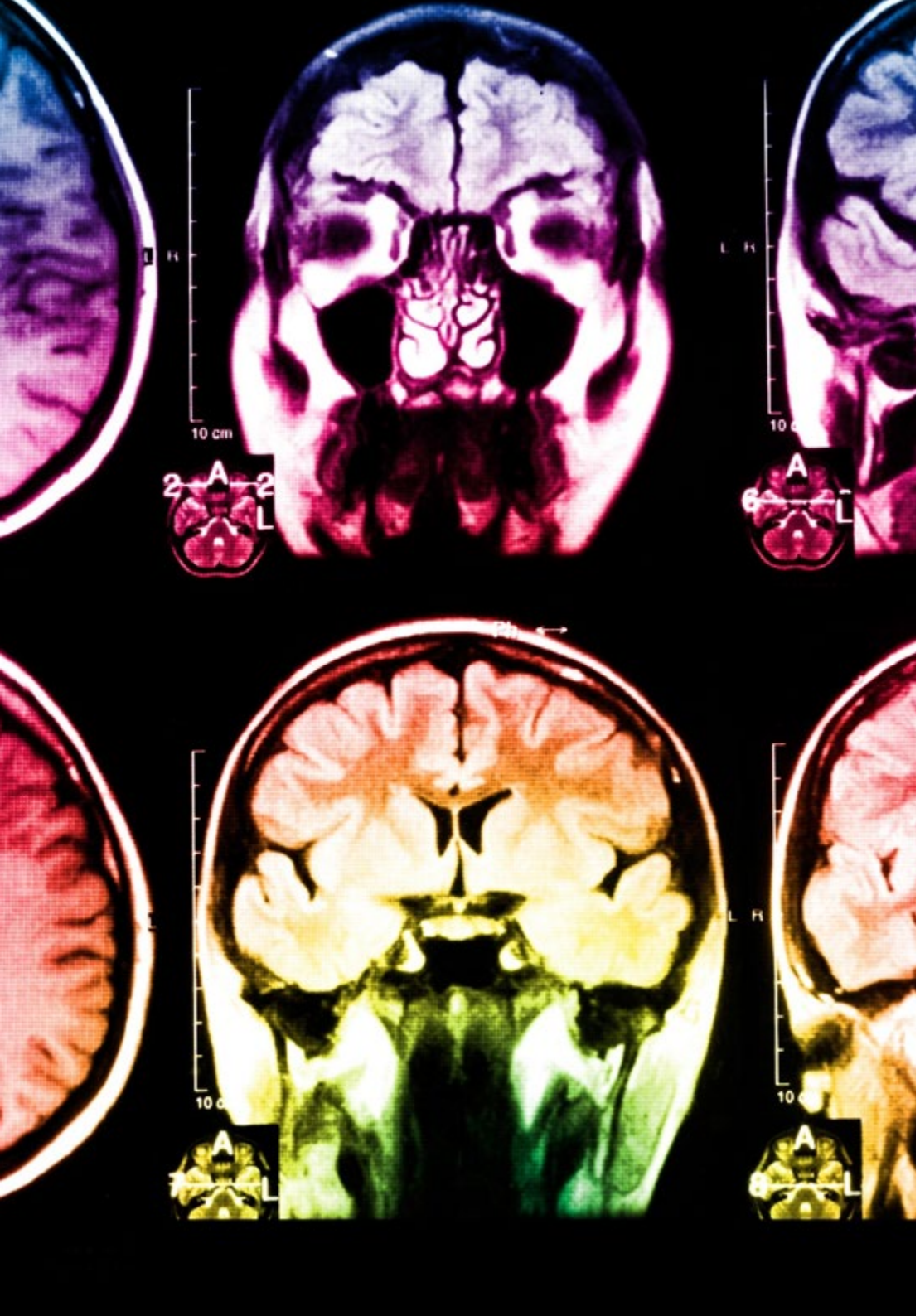
TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

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.

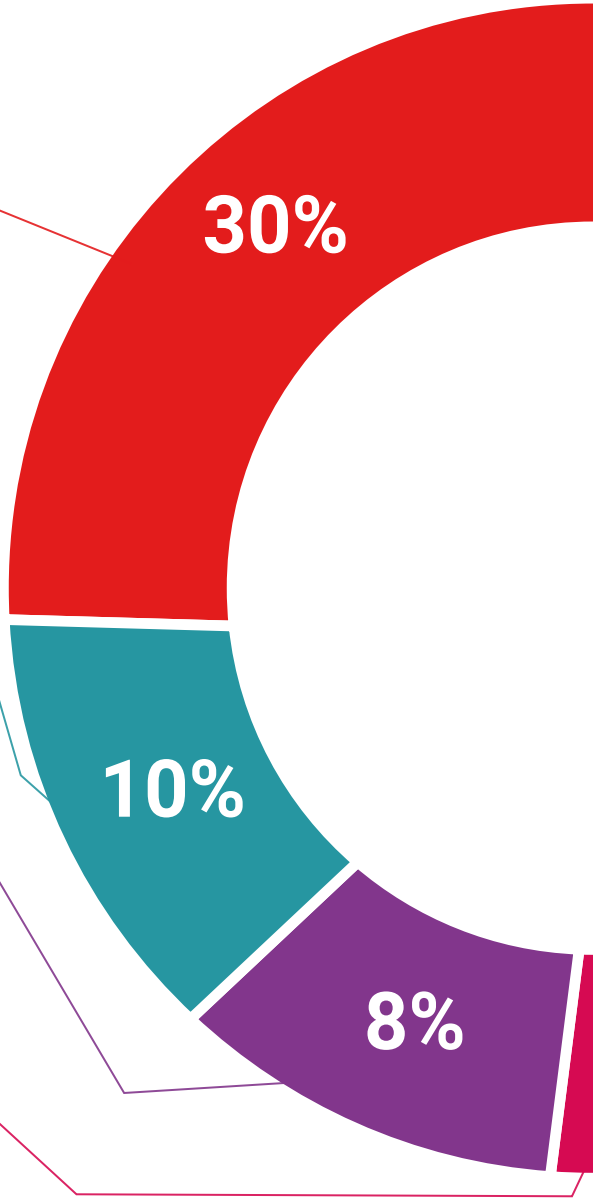
Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.

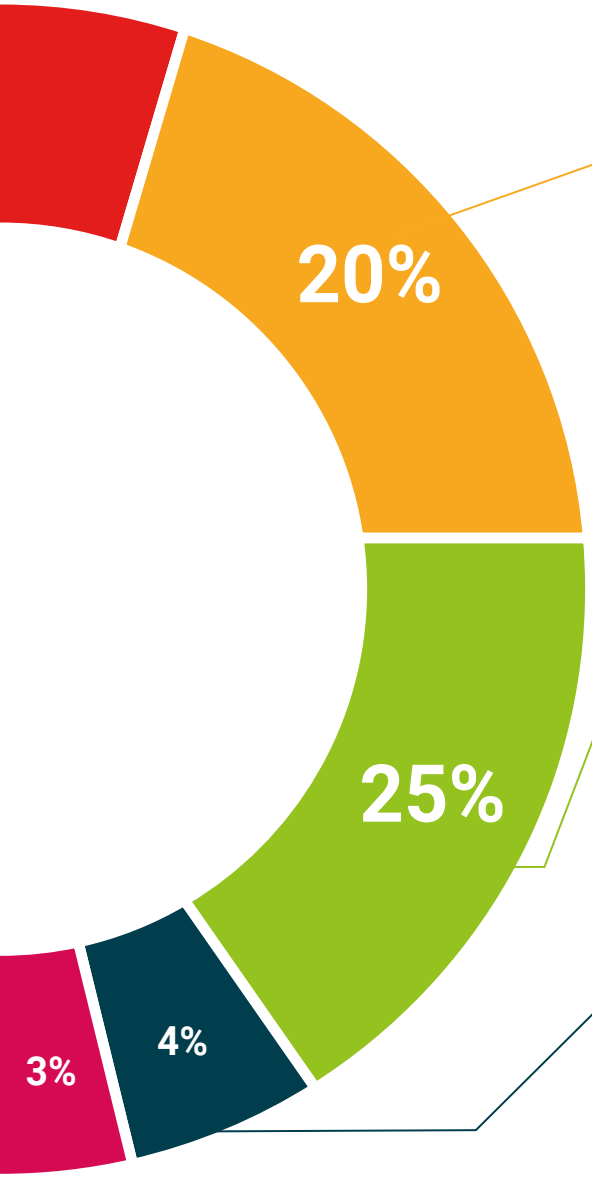
Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject 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

This Postgraduate Certificate in Colorimetry guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.

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

This **Postgraduate Certificate in Colorimetry** 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 committeesevaluation committees.

Title: **Postgraduate Certificate in Colorimetry**

Official N° of Hours: **150 h.**


tech technological university

Awards the following

DIPLOMA

to

Mr./Ms. _____, with identification number _____.

For having passed and accredited the following program

POSTGRADUATE CERTIFICATE

in

Colorimetry

This is a qualification awarded by this University, equivalent to 150 hours, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH is a Private Institution of Higher Education recognized by the Ministry of Public Education as of June 28, 2018.

June 17, 2020

Tere Guevara Navarro
Dean

Unique TECH Code: AFWORD23S techtitute.com/certificates

*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.

tech technological university

Postgraduate Certificate
Colorimetry

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

Postgraduate Certificate
Colorimetry

tech technological university