Postgraduate Certificate

Web Layout Applied to Full-Stack Developer

tech technological university

Postgraduate Certificate
Web Layout Applied to Full-Stack Developer

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

Website: **www.techtitute.com/pk/information-technology/postgraduate-certificate/web-layout-applied-full-stack-developer**

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01
Introduction

The layout techniques were born with the browsers themselves, with an evolution of more than 25 years. Knowledge of these techniques is essential for the development of both websites and applications. In this program the student will explore the CSS language, which is responsible for telling the browser how and where to display each element of a page or application. As well as *Bootstrap*, the most used library nowadays to give quick style to webs and applications. Under a 100% online modality, the students will enhance their knowledge of SaSS, a language that will help them make more productive and efficient style sheets for websites and applications.

"*Increase your knowledge, up to a specialized level, of web layout with all the components and best practices*"

Layout is the technique that lies at the intersection between design and web development, but not only that, it will directly affect issues such as navigability or usability of a page, which is known as UX/UI or user experience. Therefore, in a project for a Web page or an application it is essential to take care of the design in detail.

As a designer and developer whether you work in small teams or on your own, you will generally do purely development work in which a professional team of designers will provide the layouts to be obtained. In both cases, it is necessary to know how far layout techniques can be taken to advise clients and designers on the layouts.

An online Postgraduate Certificate with great flexibility, as there are no on-site classes or fixed schedules. The student will be the one who decides when, where and how to take on the entire course load. All the content of the virtual classroom can be followed from any device with internet connection and is available for download.

This **Postgraduate Certificate in Web Layout applied to Full-Stack Developer** contains the most complete and up-to-date program on the market. The most important features include:

- Case studies presented by experts in Web Layout applied to *Full-Stack Developer*
- 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
- Theoretical lessons, questions for experts and individual reflection work
- Content that is accessible from any fixed or portable device with an Internet connection

You will be able to generate specialized knowledge about CSS"

" *You will delve into SaSS, a language that will help you make more productive and efficient stylesheets for your websites and applications"*

You will explore the CSS language, responsible for telling the browser how and where to display each element of a page or application.

You will navigate through Bootstrap, today's most widely used library for fast styling of websites and applications.

The program's teaching staff includes professionals from the industry 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.

The design of this program focuses on problem-based learning, through which the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced experts.

02
Objectives

Develop specialized knowledge about CSS, generate a web design to properly address the layout, analyze the *Bootstrap* library or carry out layout projects with SaSS, are some of the objectives presented in this Postgraduate Certificate, which aims to present different CSS methodologies to obtain *Responsive* designs, compile CSS code with SaSS and develop your own CSS *Framework* based on *Bootstrap*, among others.

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The purpose of the module is to provide you with specialized knowledge about CSS while you carry out layout projects with SaSS"

General Objectives

- Generate specialized knowledge on CSS (*Cascading Style Sheets*)
- Develop a web design to approach the layout correctly
- Analyze the *Bootstrap* library
- Carry out layout projects with SaSS (*Syntactically Awesome Stylesheets*)

You will be able to incorporate CSS preprocessor and clone websites with the keys that this online program will provide you"

Specific Objectives

♦ Evaluate a web design to know how to place it temporally

♦ Examine the main CSS rules

♦ Present different CSS methodologies to obtain *Responsive* layouts

♦ Fundamentals of CSS waterfall development principles

♦ Identify the *Bootstrap* technology in any web design

♦ Analyze *Bootstrap* principles

♦ Develop a web mockup using *Bootstrap*

♦ Determine the development principles in a SaSS project

♦ Compile CSS code with SaSS

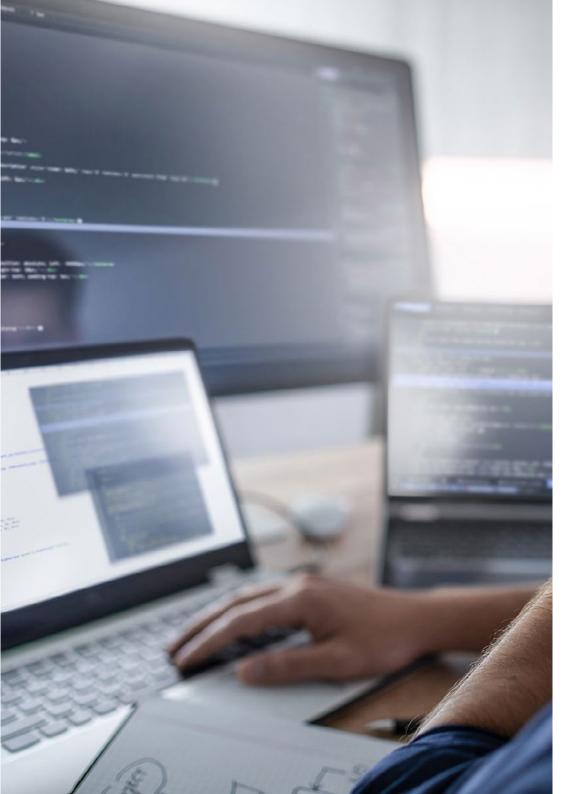♦ Develop your own *Bootstrap* based CSS *framework* using SaSS

Course Management

TECH, in its commitment of offering an elite education for all, has experts in application development and language. Therefore, this Postgraduate Certificate brings together highly qualified professionals with extensive experience in the sector. In this way, the student will be able to increase the skills in web layout applied to *Full-Stack Developer*.

You will have at your fingertips the greatest specialists in web development and layout at international level"

Management

D. Olalla Bonal, Martín

- Senior Blockchain Practice Manager at EY
- Blockchain Client Technical Specialist for IBM
- Director of Architecture for Blocknitive
- Non-Relational Distributed Databases Team Coordinator for wedoIT (IBM Subsidiary)
- Infrastructure Architect at Bankia
- Head of Layout Department at T-Systems
- Department Coordinator for Bing Data Spain S.L

Professors

Mr. Pintado San Claudio, Bruno

- Development coordinator at iDavinci
- Java Developer at the National Library of Spain
- Support developer and N1 network technician in Sanitas
- Systems support technician at Alcobendas City Council
- Communications Technician N1 for ADIF at the Atocha Telecommunications Center
- Graduated in Telecommunications Technical Engineering with specialization in Electronic Systems at the Polytechnic University of Valencia
- Graduate in Communications Electronics Engineering at the Polytechnic University of Madrid

04
Structure and Content

The syllabus has been designed based on the requirements of web layout applied to *Full-Stack Developer*, therefore establishing a syllabus whose module offers a broad perspective of design rules, from CSS cascading style sheet to *Bootstrap* layout, including the use and logic of SaSS, among others.

We offer you the most complete and up-to-date syllabus on the market, prepared by professionals in the sector"

Module 1. Web Layout Applied to *Full-Stack Developer*

1.1. CSS and Layout
    1.1.1. Layout with Tables
    1.1.2. Fluid Layout
    1.1.3. The Responsive Era
    1.1.4. *Mobile First* vs. *Desktop First*

1.2. CSS and the Rules of Web Design
    1.2.1. Selectors
    1.2.2. Pseudo Classes
    1.2.3. Pseudo Elements

1.3. Layout with CSS
    1.3.1. Box Model Rules
    1.3.2. Typographies
    1.3.3. Colors
    1.3.3. Images
    1.3.4. Backgrounds
    1.3.5. Tables
    1.3.6. Forms
    1.3.7. Showing and Hiding Elements
    1.3.8. CSS Variables

1.4. Responsive Design and Fluid Design
    1.4.1. Floating Elements
    1.4.2. CSS Grid
    1.4.3. Media Queries
    1.4.4. Flex Box

1.5. The CSS Cascade
    1.5.1. Priority of CSS Rules
    1.5.2. Overriding Rules
    1.5.3. Classes vs. Identifiers

1.6. SaSS
    1.6.1. Software as a Service (SaSS)
    1.6.2. Installing SaSS
    1.6.3. Running and Compiling SaSS
    1.6.4. Structuring a SaSS Directory

1.7. Using SaSS
    1.7.1. Variables in Sass
    1.7.2. Modularizing our Project
    1.7.3. Syntax of SaSS

1.8. SaSS Logic
    1.8.1. Mixins
    1.8.2. Maps
    1.8.3. Functions and Control Structures

1.9. Layout with Bootstrap
    1.9.1. Bootrstrap
    1.9.2. Bootstrap Layouts
    1.9.3. Forms
    1.9.4. Box Model with Bootstrap
    1.9.5. Colors and Fonts
    1.9.6. Links and Buttons
    1.9.7. Show and Hide Elements with Bootstrap
    1.9.8. Flex Box with Bootstrap
    1.9.9. Components

1.10. Theming Bootstrap
    1.10.1. Re-Writing Bootstrap with SaSS (Software as a Service)
    1.10.2. File Structure
    1.10.3. Creating our own CSS Framework (Cascading Style Sheets)
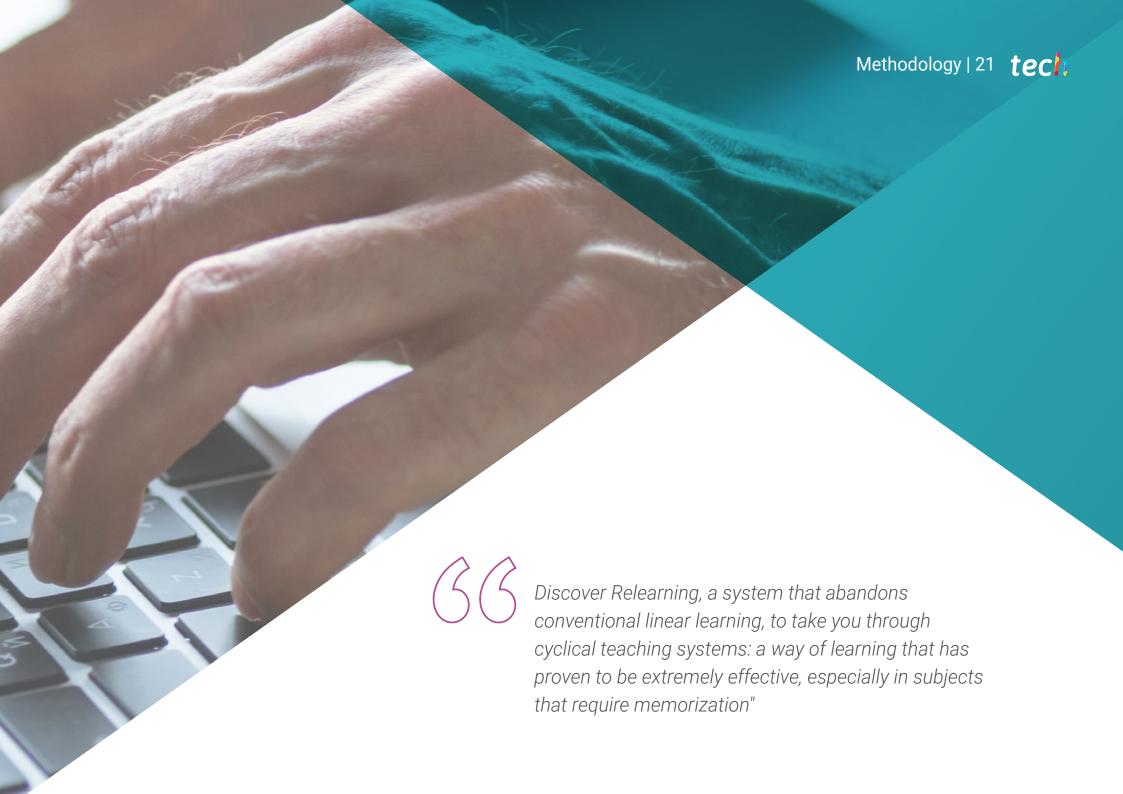
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"All of our content is focused on updating your knowledge so that you stand out in the job market"

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.

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 has been the most widely used learning system among the world's leading Information Technology schools for as long as they have existed. 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 that you are presented with in the case method, an action-oriented learning method. Throughout the course, students 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 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.

01 learning from evidence

02 relearning from evidence

03 testing

04 learning from an expert

05 neurocognitive context dependent learning

06 Von-Restorff effect

07 case based learning through storytelling

08 competencies testing (retesting)

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. This methodology has 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, and financial markets and 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.

30%

10%

8%

20%

25%

4%

3%

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.

06
Certificate

The Postgraduate Certificate in Web Layout applied to Full Stack Developer 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 Web Layout applied to Full-Stack Developer** 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 certificate 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 Web Layout Applied to Full-Stack Developer**

Official Nº of hours: **150 h.**

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Awards the following
CERTIFICATE
to

Mr./Ms. _____, with identification number _____.
For having passed and accredited the following program

POSTGRADUATE CERTIFICATE
in
Web Layout Applied to Full-Stack Developer

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 certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

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