Postgraduate Certificate

Agile Methodologies for Web Site Development

tech technological university

Postgraduate Certificate
Agile Methodologies
for Web Site Development

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

Web Site: **www.techtitute.com/us/engineering/postgraduate-certificate/agile-methodologies-web-site-development**

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01
Introduction

One of the things that is most valued in todays job market is the agility and efficiency with which different jobs and assignments are carried out. In the field of engineering, this is especially true, since sometimes the need to develop projects quickly necessitates design strategies that expedite their completion. This is very common in the field of web programming, so professional programming specialists needs to acquire the necessary skills to execute their projects quickly without affecting standards.

SYNTAX

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" Speed is the key: acquire skills to speed up your work, decreasing the time you spend writing code and increasing your profits"

Web development is one of the fields of work within programming that requires rapid project development. Clients and employers constantly receive orders that have to be executed very quickly, making the developer face a great challenge: to program a web site with quality and without errors, but with a speed that guarantees meeting the required delivery deadlines.

In this context, having the right knowledge and tools to meet requirements is essential. The right tools can mean the difference between building a Web Site efficiently, without spending too much time, and delivering it to deadline, or having to take on an unsustainable workload in order to fulfill the order.

Therefore, this Postgraduate Certificate offers a broad base of knowledge and skills allowing engineers and Web Site developers to perform their work in a easier way without affecting the quality of the final product. This program offers a complete and innovative syllabus to provide students with all the tools they need to perform their work quickly, efficiently and effectively.

It been designed by experts in the field , who have applied all their knowledge to the program content, so students can be sure that they will be able to apply their learning directly in their work.

This **Postgraduate Certificate in Agile Methodologies for Web Site Development** contains the most complete and up-to-date program on the market. The most important features include:

◆ Emphasis on the acquisition of skills for streamlined web programming

◆ A practical methodology that allows students to apply learning to their work environment

◆ Experienced teachers who will answer all the students' questions

◆ Content that is accessible from any fixed or portable device with an Internet connection

This Postgraduate Certificate makes your work easier: your clients will be satisfied with the agility with which you carry out their projects"

> *"Achieve the highest quality in your web projects in less time, increasing your work" flow"*

Do you know everything about web development? TECH offers you new technioques, enabling you to work more efficiently.

Apply the knowledge from this Postgraduate Certificate to your work and improve your performance.

The program's teaching staff includes professionals from the sector who contribute their work experience to this educational 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 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

This program has been designed to enable students to improve their work efficiency, completing more work, to the same standards, but in less time. The professional will then be able to take on more work from potential clients or devote more time to other tasks, so the benefits of this qualification work on several levels.

TECH knows that efficiency is a fundamental concept for you: this Postgraduate Certificate is the key for you to be the most efficient developer"
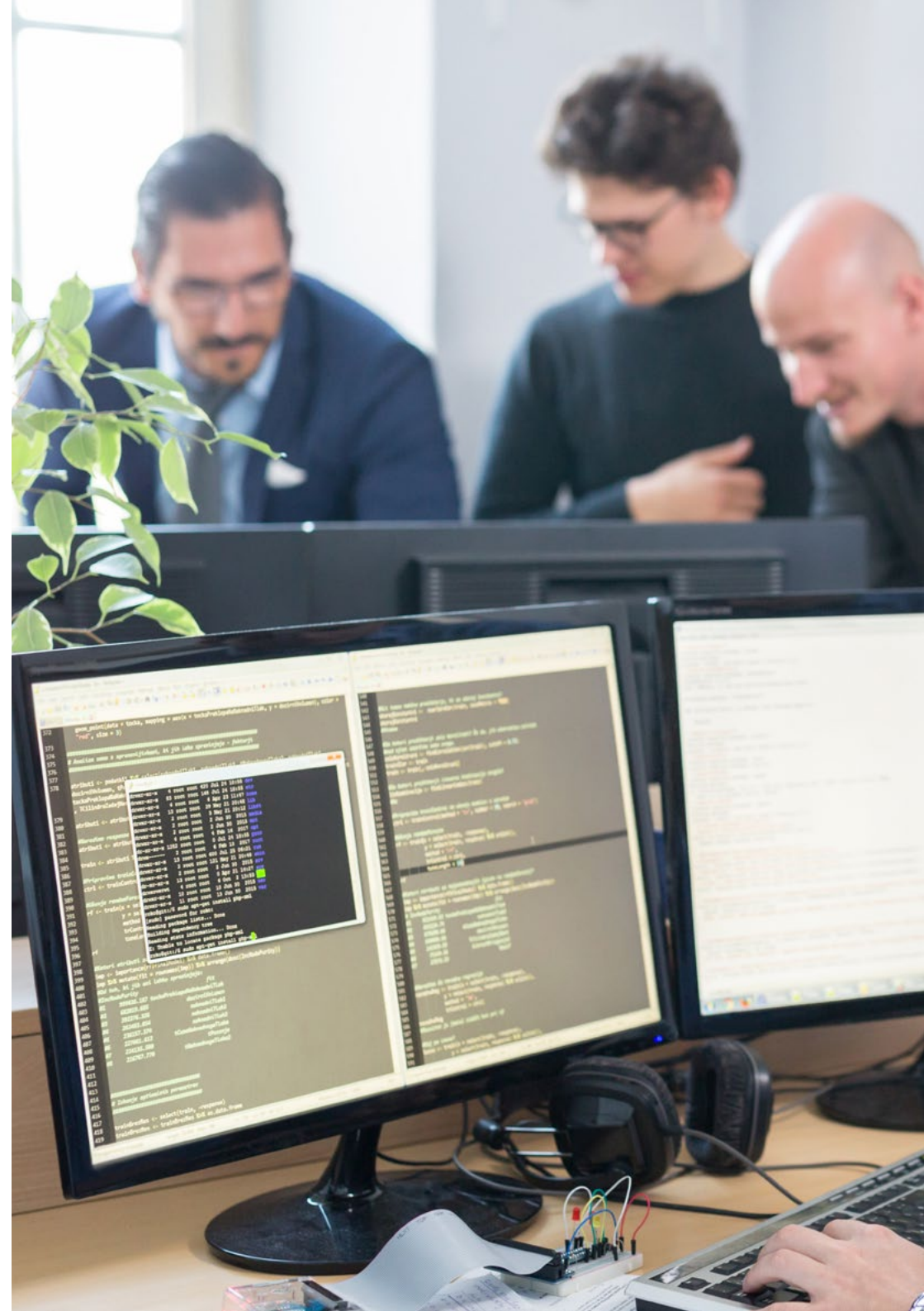
General Objectives

◆ Examine the characteristics of agile project management and determine the differences with predictive or traditional approaches

◆ Assimilate the key principles of agile mindset and practice and analyze the different agile methodologies and determine the best framework to adopt according to the characteristics of the projects

◆ Initiate, plan, execute, monitor, and close an agile project

◆ Lead and differentiate the roles of an agile team and recommend strategies for overcoming the challenges faced by dispersed or offshore agile teams

"This Postgraduate Certificate gives you all the working tools you are looking for: Don't think twice and enroll!"

Specific Objectives

- Determine key elements in business cases, product vision and user stories
- Plan iterations based on team speed and iteration length
- Gather and prioritize requirements for agile projects
- Recognize guidelines for decomposing, estimating, and assigning user stories
- Develop agile practices to manage project quality and risk
- Calculate cost and schedule performance indicators for agile projects
- Analyze the keys to contracting for agile projects
- You will use tools and strategies to actively engage stakeholders throughout the life of a project
- Examine the leadership strategies of high-performing self-managed teams

03
Course Management

For the Postgraduate Certificate in Agile Methodologies for Web Site Development, we offer the student the best knowledge provided by the best teachers, specialists in the field, who will share their best techniques and tricks when it comes to streamlining Web Site development. In this way, students know that everything they learn comes from the professional field and can be applied to their own work.

Top experts share their experiences with you to help you improve your work"

Management

Mr. Gris Ramos, Alejandro

- CEO & Founder Club de Talentos
- CEO. Persatrace, Online Marketing Agency
- Business Development Director at Alenda Golf
- Director. PI Study Center
- Director of Web Application Engineering Department at Brilogic
- Web programmer at Grupo Ibergest
- Software/web programmer at Reebok Spain
- Technical Engineer in Computer Management
- Master's Degree in Digital Teaching and Learning Tech Education
- Master's Degree in High Abilities and Inclusive Education
- Master's Degree in E-Commerce
- Specialist in the latest technologies applied to teaching, digital marketing, web application development and Internet business

04
Structure and Content

Thanks to the following program, which offers the best tools for streamlining web development, the student will be able to carry out all the tasks and face all the professional challenges that arise. This syllabus has been designed by the best IT experts, applying their own knowledge of engineering, so it contains specialized content that can be applied to different fields, making it a comprehensive, detailed and, at the same time, overarching and wide-reaching program.

This program has it all: you won't miss a thing once you finish this Postgraduate Certificate"

Module 1. Web Application Development Methodologies

1.1. Agile Project Management: Foundation for Web Application Development
- 1.1.1. The Agile Approach
- 1.1.2. Agile Values and Principles
- 1.1.3. Traditional Project Management and Agile
- 1.1.4. Agile Project Management Models
- 1.1.5. Agile Methodologies

1.2. Using Agile Approach for Web Application Development
- 1.2.1. Myths and Realities Regarding Agility
- 1.2.2. Agile Practices
- 1.2.3. Selecting Agile Practices for a Project
- 1.2.4. Developing an Agile Mentality
- 1.2.5. Implementing and Communicating Adopting Agile Principles

1.3. Agile Methodologies for Web Application Development
- 1.3.1. Lean Development
- 1.3.2. Extreme Programming (XP)
- 1.3.3. Crystal Methods
- 1.3.4. Feature Driven Development (FDD)
- 1.3.5. Dynamic Systems Development Method (DSDM) and Unified Agile Processes

1.4. Agile Methodologies for Advanced Web Application Development
- 1.4.1. Kanban Method
- 1.4.2. Scrum and Scrumban
- 1.4.3. DA Disciplined Agile
- 1.4.4. Hybrid Methodologies
- 1.4.5. Comparing Agile Methodologies

1.5. Web Development Projects: Planning Process
- 1.5.1. Starting an Agile Project
- 1.5.2. Agile Planning Process
- 1.5.3. Gathering Requirements and User History
- 1.5.4. Establishing Project Scope Using Agile Methods: Product Backlog
- 1.5.5. Agile Tools to Prioritize Requirements

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.

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 that you are presented with 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.

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

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.

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 inAgile Methodologies for Web Site Development guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.
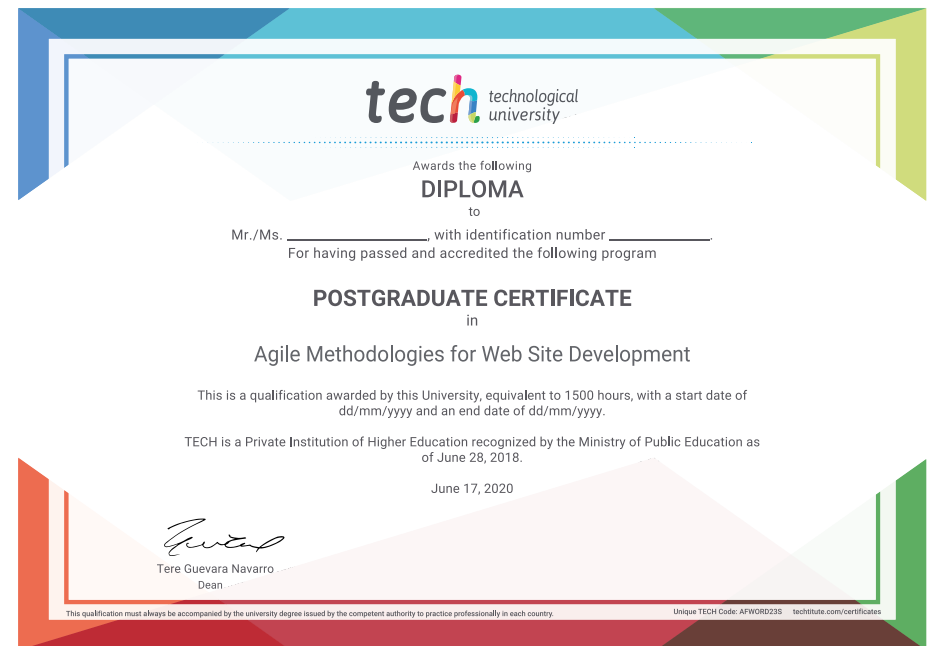
Successfully complete this program and receive your university qualification without having to travel or fill out laborious paperwork"

This **Postgraduate Certificate in Agile Methodologies for Web Site Development** 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 Agile Methodologies for Web Site Development**

Official Nº 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
Agile Methodologies for Web Site Development

This is a qualification awarded by this University, equivalent to 1500 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

This qualification must always be accompanied by the university degree issued by the competent authority to practice professionally in each country.   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.

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