

Postgraduate Certificate Web Server Computing





Postgraduate Certificate Web Server Computing

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

Website: www.techtitute.com/us/information-technology/postgraduate-certificate/web-server-computing

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01

Introduction

Upgrade your knowledge in Web Server Computing with this prestigious program developed by industry experts with extensive experience in the field. You will have the most advanced teaching resources and the most innovative knowledge, in a highly scientifically rigorous program that stands out for its effective learning methodology; Relearning.





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Completing this Postgraduate Certificate will place Software Engineering and Computer Systems professionals at the forefront of the latest developments in the sector”

The main objective of this program is that the student gains the ability to incorporate substantial qualitative improvements, providing new solutions to specific problems that arise in software development.

Throughout these months of specialization, the student will understand the construction of the logical data model, the specification of tables, columns, keys and dependencies, as well as the necessary knowledge for the physical handling of data, types of files, access modes and their organization, among other issues of interest.

With this program, the student will have access to the most advanced teaching resources and will have the opportunity to study a program that brings together the most in-depth knowledge in the field. A group of highly scientifically qualified professors with extensive international experience will provide students with the most complete and up-to-date information on the latest advances and techniques in Software and Computer Systems Engineering.

The syllabus covers the main current topics in Software and Computer Systems Engineering in such a way that whoever masters them will be prepared to work in this field. It is therefore not just another qualification in the backpack, but a real learning tool to approach the topics of the specialty in a modern, objective way and with the ability to make a judgment based on the latest information available today.

It should be noted that since this is a 100% online course, the student can access the contents at any time of the day, balancing their work or personal life with their academic life.

This **Postgraduate Certificate in Web Server Computing** contains the most complete and up-to-date educational program on the market. The most important features include:

- ◆ 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
- ◆ Special emphasis on innovative methodologies in the field of Web Server Computing
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



Learn to design, evaluate and manage software engineering projects thanks to this high-quality program"



Specialize in computer systems with the help of professionals with extensive experience in the sector"

This program comes with the best educational material, providing you with a contextual approach that will facilitate your learning.

This 100% online Postgraduate Certificate will allow you to combine your studies with your professional work. You choose where and when to study.

Its teaching staff includes professionals belonging to the field of Web Server Computing, who contribute to this program the experience of their work, as well as recognized specialists from reference 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 learning programmed to train 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 throughout the program. For this purpose, the professional will be assisted by an innovative interactive video system created by renowned and experienced experts in Web Server Computing.

```
ing_sprites:  
    += 10  
    height = games.screen.  
Change game level. ""  
if self.score.value == 200:  
    self.level.value += 1  
    self.level.left = games.screen.  
    "" Next level game. ""  
    message = games.Message  
    size = 30
```


02 Objectives

The Postgraduate Certificate in Web Server Computing is oriented to facilitate the performance of the professionals so that they acquire knowledge of the main developments in this field, which will allow them to practice their profession with the highest quality and professionalism.





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Our goal is for you to become the best professional in your sector and for this we have the best methodology and content”



General Objectives

- ◆ Acquire new knowledge in Software and Computer Systems Engineering
- ◆ Acquire new skills in terms of new technologies and the latest software
- ◆ Process the data generated in Software and Computer Systems Engineering activities



Improving your skills in the field of Web Server Computing will allow you to be more competitive. Continue your studies and give your career a boost"





Specific Objectives

- ◆ Understand the basic, intermediate and advanced concepts of the PHP language for the implementation of server-side applications
- ◆ Acquire the necessary knowledge for data modeling, relationships, keys and normalizations
- ◆ Understand the construction of the logical data model, the specification of tables, columns, keys and dependencies, as well as the knowledge necessary for the physical handling of data, file types, access modes and file organization
- ◆ Learn how to integrate applications developed in PHP with MariaDB and MySQL databases
- ◆ Master the process of customer interactions, using forms, Cookies and session management
- ◆ Understand the Model View Controller View (MVC) software architecture that separates an application's data, user interface, and control logic into three distinct components
- ◆ Acquire the skills for the use of web services using XML, SOA and REST

03

Course Management

This academic program includes the most specialized teaching staff in the current educational market. They are specialists selected by TECH to develop the whole syllabus. In this way, starting from their own existence and the latest evidence, they have designed the most up-to-date content that provides a guarantee of quality in such a relevant subject.



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TECH offers the most specialized teaching staff in the field of study. Enroll now and enjoy the quality you deserve”

International Guest Director

Darren Pulsipher is a highly experienced software architect, an innovator with an outstanding international track record in software and firmware development. In fact, he possesses highly developed communication, project management and business skills, which have enabled him to lead major global initiatives.

He has also held senior positions of great responsibility throughout his career, such as Chief Solution Architect for the Public Sector at Intel Corporation, where he has promoted modern business, processes and technologies for customers, partners and users in the public sector. In addition, he founded Yoly Inc. where he has also served as CEO, working to develop a social network aggregation and diagnostic tool based on Software as a Service (SaaS), using Big Data and Web 2.0 technologies.

Additionally, he has served in other companies, as Senior Director of Engineering, at Dell Technologies, where he led the Big Data in the Cloud Business Unit, leading teams in the United States and China for the management of large projects and the restructuring of business divisions for their successful integration. He has also worked as Chief Information Officer at XanGo, where he managed projects such as Help Desk support, production support and solution development.

Among the many specialties in which he is an expert, Edge to Cloud technology, cybersecurity, Generative Artificial Intelligence, software development, networking technology, cloud-native development and the container ecosystem stand out. Knowledge he has shared through the "Embracing Digital Transformation" podcast and weekly newsletter, which he produced and hosted, helping organizations successfully navigate digital transformation by leveraging people, processes and technology.



Dr. Pulsipher, Darren

- Chief Solution Architect for Public Sector at Intel, California, United States
- Presenter and Producer of "Embracing Digital Transformation", California
- Founder and CEO at Yoly Inc., Arkansas
- Senior Director of Engineering at Dell Technologies, Arkansas
- Chief Information Technology Officer, XanGo, Utah
- Senior Architect at Cadence Design Systems, California
- Senior Project Process Manager at Lucent Technologies, California
- Software Engineer at Cemax-Icon, California
- Software Engineer at ISG Technologies, Canada
- MBA in Technology Management from the University of Phoenix, Phoenix, California
- B.S. in Computer Science and Electrical Engineering from Brigham Young University




Thanks to TECH, you will be able to learn with the best professionals in the world"

04

Structure and Content

The structure of the contents has been designed by the best professionals in the sector, with extensive experience and recognized prestige in the profession, and aware of the benefits that the latest educational technology can bring to higher education.





“ We have the most complete and up-to-date program on the market. We strive for excellence and for you to achieve it too”

Module 1. Web Server Computing

- 1.1. Introduction to Server-Side Programming: PHP
 - 1.1.1. Server-Side Programming Basics
 - 1.1.2. Basic PHP Syntax
 - 1.1.3. HTML Content Generation with PHP
 - 1.1.4. Development and Testing Environments: XAMPP
- 1.2. Advanced PHP
 - 1.2.1. Control Structures with PHP
 - 1.2.2. PHP Functions
 - 1.2.3. Array Handling in PHP
 - 1.2.4. String Handling with PHP
 - 1.2.5. Object Orientation in PHP
- 1.3. Data Models
 - 1.3.1. Concept of Data. Life Cycle of Data
 - 1.3.2. Types of Data
 - 1.3.2.1. Basic
 - 1.3.2.2. Records
 - 1.3.2.3. Dynamics
- 1.4. Relational Model
 - 1.4.1. Description
 - 1.4.2. Entities and Types of Entities
 - 1.4.3. Data Elements. Attributes
 - 1.4.4. Relationships: Types, Subtypes, Cardinality
 - 1.4.5. Keys Types of Keys
 - 1.4.6. Normalization. Normal Shapes
- 1.5. Construction of the Logical Data Model
 - 1.5.1. Specification of Tables
 - 1.5.2. Definition of Columns
 - 1.5.3. Key Specification
 - 1.5.4. Conversion to Normal Shapes. Dependency
- 1.6. The Physical Data Model. Data Files
 - 1.6.1. Description of Data Files
 - 1.6.2. Types of Files





- 1.6.3. Access Modes
- 1.6.4. File Organization
- 1.7. Database Access from PHP
 - 1.7.1. Introduction to MariaDB
 - 1.7.2. Working with a MariaDB Database: The SQL Language
 - 1.7.3. Accessing the MariaDB Database from PHP
 - 1.7.4. Introduction to MySQL
 - 1.7.5. Working with a MySQL Database: The SQL Language
 - 1.7.6. Accessing MySQL Database from PHP
- 1.8. Client Interaction from PHP
 - 1.8.1. PHP Forms
 - 1.8.2. Cookies
 - 1.8.3. Session Management
- 1.9. Web Application Architecture
 - 1.9.1. The Controller View Model Pattern
 - 1.9.2. Controller
 - 1.9.3. Models
 - 1.9.4. View
- 1.10. Introduction to Web Services
 - 1.10.1. Introduction to XML
 - 1.10.2. Service-Oriented Architecture (SOA): Web services
 - 1.10.3. Creation of SOAP and REST Web Services
 - 1.10.4. The SOAP Protocol
 - 1.10.5. The REST Protocol

“ *A comprehensive and multidisciplinary educational program that will allow you to excel in your career, following the latest advances in the field of Web Server Computing* ”

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.



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.





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 Server Computing 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 university qualification without having to travel or fill out laborious paperwork”

This **Postgraduate Certificate in Web Server Computing** 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 Web Server Computing**

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

online training

development languages

classroom

tech technological
university

Postgraduate Certificate Web Server Computing

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- » Schedule: at your own pace
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