Postgraduate Certificate Software Reuse

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Postgraduate Certificate Software Reuse

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

Website: www.techtitute.com/in/information-technology/postgraduate-certificate/software-reuse

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01 Introduction

The Software Reuse Program is intended to introduce students to main software design patterns. This program will allow them to acquire a wide vision in this field in order to develop quality work.

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tech 06 | Introduction

The teaching staff of this Postgraduate Certificate in Software Reuse has made a careful selection of each topic of this training to offer the student a study opportunity as complete as possible and always linked to current events.

The program deals with software reuse and different types of design patterns and frameworks. The objective is to provide students with complete information on this field of IT work so that they can carry out their work with quality and safety.

This Postgraduate Certificate provides students with specific tools and skills to successfully develop their professional activity in the wide environment of Software Reuse. It works on key competencies such as knowledge of the day-to-day reality and work in different IT areas and develops responsibility for the monitoring and supervision of work, as well as specific skills within this field.

In addition, as it is a 100% online Postgraduate Certificate, the student is not conditioned by fixed schedules or need to move to another physical location, but can access contents at any time of the day, balancing their work or personal life with their academic life. This **Postgraduate Certificate in Software Reuse** contains the most complete and upto-date program on the market. The most important features include:

- Case studies presented by experts in Computing Engineering
- The graphic, schematic, and practical contents with which they are created, provide scientific and practical information on disciplines that are essential for professional practice
- Practical exercises where self-assessment can be used to improve learning
- Its special emphasis on innovative methodologies in Software Reutilization
- 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

Don't miss the opportunity to take this Postgraduate Certificate in Software Reuse with us. It's the perfect opportunity to advance your career"

Introduction | 07 tech

"

This Postgraduate Certificate is the best investment you can make in selecting a refresher program to update your knowledge in Software Reuse"

Its teaching staff includes professionals belonging to the field of Information Technology, who bring to this program the experience of their work, as well as recognized specialists from leading companies and prestigious universities.

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

The program design focuses on Problem-Based Learning, by means of which the professional must try to solve the different professional practice situations that are presented throughout the academic course. For this, the professional will be assisted by an innovative interactive video system developed by renowned and experienced software reuse experts.

This Postgraduate Certificate has the best didactic material, which will allow you a contextual study that will facilitate your learning.

This 100% online Postgraduate Certificate will allow you to balance your studies with your professional work while increasing your knowledge in this field.

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02 **Objectives**

The Software Reuse program is oriented to facilitate performance of professional in this field so that they acquire and know main novelties in this area of Computer Science.

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This is the best option to learn about latest advances in Software Reuse"

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tech 10 | Objectives



General Objectives

• To educate scientifically and technologically, as well as to prepare for the professional practice of Software Reuse, all with a transversal and versatile academic experience adapted to new technologies and innovations in this field



IT professionals must continue their specialization to adapt to new developments in this field"



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Objectives | 11 tech



Specific Objectives

- To know general scenario in the Software Reuse strategy
- To learn different patterns related to the use of software, both in design and creation, structural and behavioral
- To introduce the Framework concept, as well as to know main types such as those for graphical user interface design, web application development and object persistence management in databases
- Understand the current widely used Model View Controller (MVC) pattern

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03 Structure and Content

The content structure has been designed by the best professionals in the Computer Engineering sector, with extensive experience and recognized prestige in the profession.

We have the most complete and up-to-date academic program in the market. We strive for excellence and for you to achieve it too"

tech 14 | Structure and Content

Module 1. Software Reuse

- 1.1. General Overview of the Software Reuse
 - 1.1.1. What is Software Reuse?
 - 1.1.2. Advantages and Disadvantages of Software Reuse
 - 1.1.3. Main Techniques of Software Reuse
- 1.2. Introduction to Design Patterns
 - 1.2.1. What is a Design Patterns?
 - 1.2.2. Catalog of the Main Design Patterns
 - 1.2.3. How to Use Patterns to Solve Design Problems?
 - 1.2.4. How to Select the Best Design Pattern?
- 1.3. Creation Patterns I
 - 1.3.1. Creation Patterns
 - 1.3.2. Abstract Factory Pattern
 - 1.3.3. Example of Abstract Factory Pattern implementation
 - 1.3.4. Builder Pattern
 - 1.3.5. Builder Implementation Example
 - 1.3.6. Abstract Factory Pattern vs. Builder
- 1.4. Creation Patterns II
 - 1.4.1. Factory Method Pattern
 - 1.4.2. Factory Method vs. Abstract Factory
 - 1.4.3. Singleton Pattern
- 1.5. Structural Patterns I
 - 1.5.1. Structural Patterns
 - 1.5.2. Adapter Pattern
 - 1.5.3. Bridge Pattern
- 1.6. Structural Patterns II
 - 1.6.1. Composite Pattern
 - 1.6.2. Decorator Pattern





Structure and Content | 15 tech

- 1.7. Structural Patterns III
 - 1.7.1. Facade Pattern
 - 1.7.2. Proxy Pattern
- 1.8. Behavioral Patterns I
 - 1.8.1. Concept of Behavioral Patterns
 - 1.8.2. Behavior Pattern: Chain of Responsibility
 - 1.8.3. Behavior Pattern : Order
- 1.9. Behavioral Patterns II
 - 1.9.1. Interpreter Pattern
 - 1.9.2. Iterator Pattern
 - 1.9.3. Observer Pattern
 - 1.9.4. Strategy Pattern
- 1.10. Frameworks
 - 1.10.1. Concept of Framework
 - 1.10.2. Development using Frameworks
 - 1.10.3. Model View Controller Pattern
 - 1.10.4. Framework for Graphical User Interface Design
 - 1.10.5. Frameworks for Web Application Development
 - 1.10.6. Frameworks for Managing Object Persistence in Databases

666 This program will allow you to advance in your career comfortably"

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"

tech 18 | Methodology

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.

Methodology | 19 tech



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.

tech 20 | Methodology

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.



Methodology | 21 tech

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.



tech 22 | Methodology

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.

30%

10%

8%

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.

Methodology | 23 tech



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.

20%

25%

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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 Software Reuse 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 Certificate without having to travel or fill out laborious paperwork"

tech 26 | Certificate

This **Postgraduate Certificate inSoftware Reuse** contains the most complete and upto-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 Software Reuse Official N° of Hours: **150 h.**



*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.

technological university

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