



Postgraduate Diploma JavaScript Development

» Modality: online

» Duration: 6 months

» Certificate: TECH Global University

» Credits: 18 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/information-technology/postgraduate-diploma/postgraduate-diploma-javascript-development

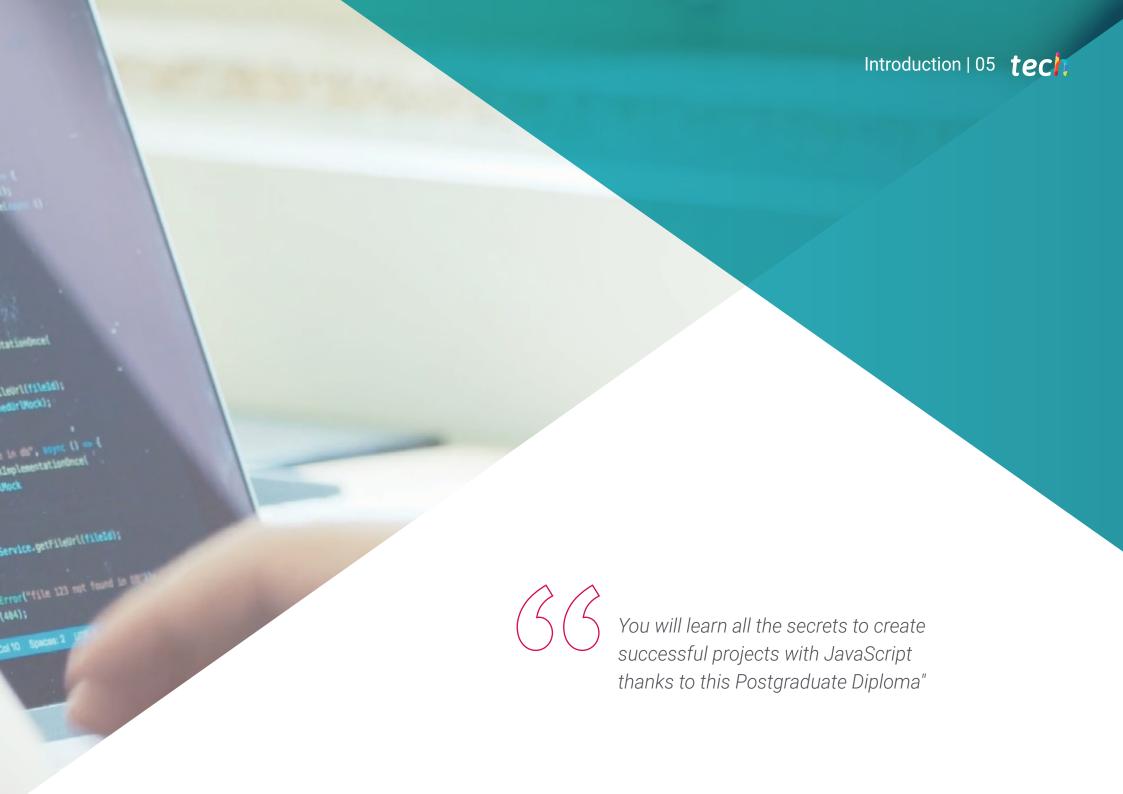
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01 Introduction

176Url()", () - (it("should return tile url for existing tile" JavaScript is the most widely used programming language in the world, all web pages use it. Although it was originally designed for web browsers, it has evolved and today it is used in all areas of programming. With this program the student will learn how to create web applications with JavaScript, as well as desktop applications, servers or mobile applications, which are increasingly used by users. Under this context, the following 100% online program is presented, focused on developing a language in continuous evolution, with the addition of "test" new features and with a large number of Frameworks. async () => MockStorageSignedUrWock const fileUrl = mail Filesservice. expect(fileUrl).toEqual(MockStore



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This program meets the necessary requirements to enable experts in the ICT sector for a correct, attractive and efficient design, with a high level of usability with low server load time and transmitting a unique user experience to the end user, adapted to the needs of the company.

This Postgraduate Diploma prepares the computer scientist to develop all types of JavaScript projects, with special emphasis on the *Full Stack Developer*, the Reactjs library and the Angular *Frameworks*. In this way, this program provides an in-depth study of aspects such as the MVC pattern, Hooks, Routing, RxJS, Testing, among others.

In addition, being a 100% online program, the student is not conditioned by fixed schedules or the need to move to another physical location, but can access a rich content that will help you reach the elite of computer science in the JavaScript language at any time of day, combining, at your own pace, your work and personal life with the academic.

This **Postgraduate Diploma in JavaScript Development** contains the most complete and up-to-date program on the market. The most important features include:

- The development of case studies presented by JavaScript experts
- 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



Promote the use of best practices using the MVC pattern through dependency injection and make your project structure stick"



Develop specialized knowledge to generate a Single Page Application with static content and the methods to pass to work with dynamic content"

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.

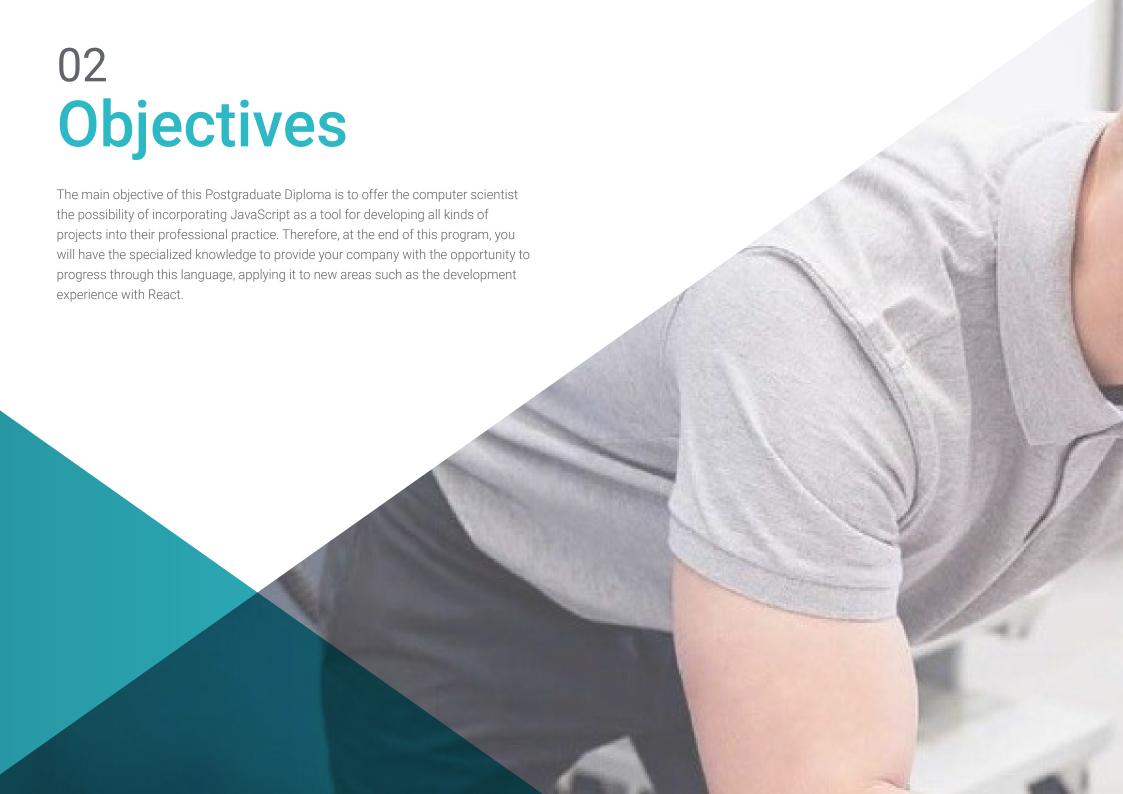
The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

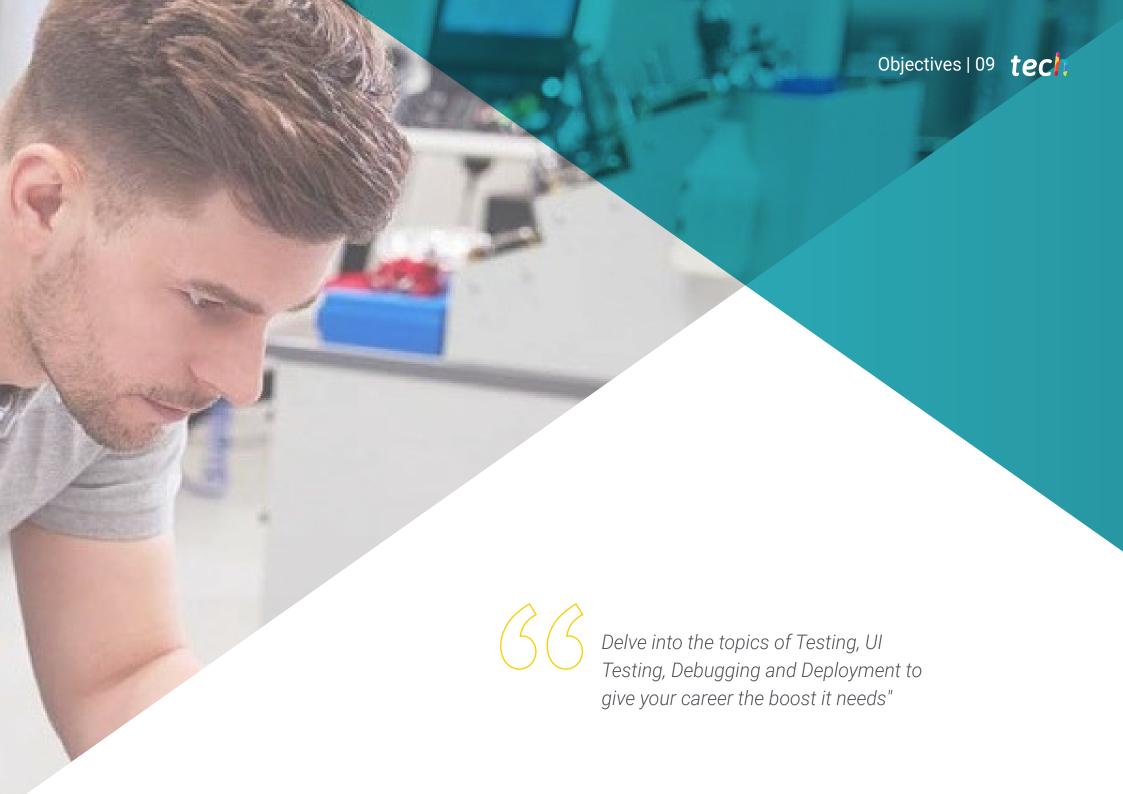
This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year For this purpose, the students will be assisted by an innovative interactive video system created by renowned and experienced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

Delve into the key concepts of the language, the latest language features, as well as asynchronous programming or arrow functions.

Learn how to use Angular to write high quality, reusable, maintainable and easy to test code.





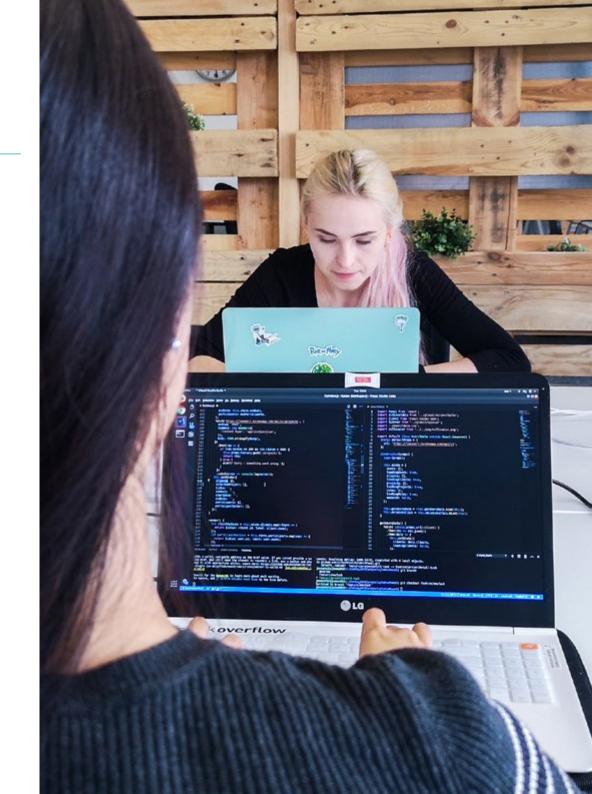


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General Objectives

- Generate specialized knowledge about the JavaScript language
- Be able to develop any type of application with JavaScript
- Analyze the features and operation of the React library
- Identify React syntax and how to program using it
- Develop advanced knowledge to build applications using React
- Generate specialized knowledge to Deploy and Test Applications
- Generate specialized knowledge about Angular
- Discover the full potential of the framework, and its advanced features
- Establish the necessary knowledge to build an application with Angular





Module 1. Javascript Language Applied to Full Stack Developer

- Establish the basic and complex types offered by JavaScript
- Analyze the different ways of programming with the language and make a correct use in each situation
- Update knowledge to the latest versions
- Discover functional programming
- Examine asynchronous programming and its characteristics

Module 2. Javascript Tools. Reactjs Library

- Determine React functionalities
- Determine React functionalities
- Analyze the life cycle of components in React
- Generate specialized knowledge about modern React functionalities such as Hooks and Context
- Set global states using Context
- Create and render lists and Create forms with React
- Implement field validation in forms
- Styling components and elements
- Debugging, Testing and Deploying React Applications

Module 3. JavaScript Framework. Angular

- Develop specialized knowledge about the architecture of the Framework
- Generate a project Commissioning
- Delve into Angular Methodology
- Analyze the concept of components
- Organize the code correctly



You will acquire agile methodologies such as Angular and see how these can be implemented in the development process"





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Management



Mr. Olalla Bonal, Martín

- Client Technical Specialist Blockchain in IBM
- Blockchain Hyperledger and Ethereum Architecture Manager at Blocknitive
- Director of the Blockchain area at PSS Information Technologies
- Chief Information Officer at ePETID Global Animal Health
- IT Infrastructure Architect at Bankia wdoIT (IBM Bankia Join Venture)
- Project director and manager at Daynet integral services
- Director of Technology at Wiron Construcciones Modulares
- Head of IT Department at Dayfisa
- Head of IT department at Dell Computer, Majsa and Hippo Viajes
- Electronics Technician in IPFP Juan de la Cierva



Professors

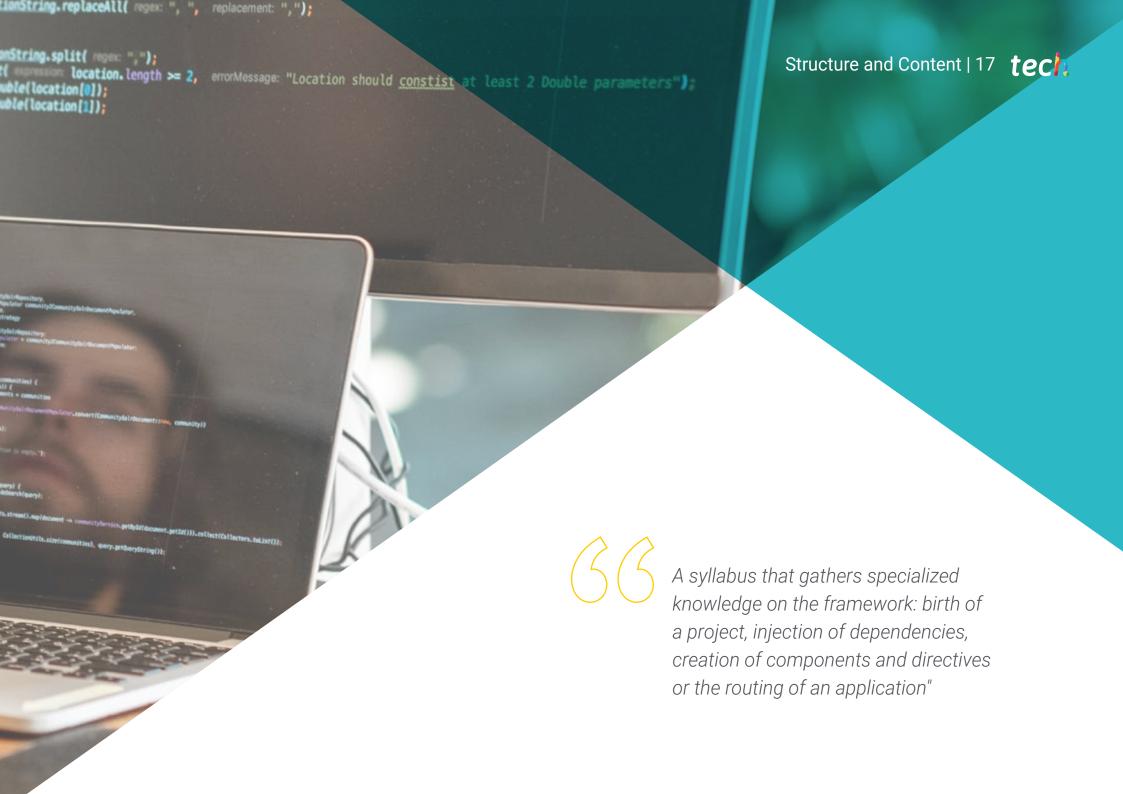
Mr. Calzada Martínez, Jesús

- Senior Software Engineer at Devo
- Full Stack Developer at Blocknitive
- Front End Manager in Infinia
- Full Stack Developer at Resem
- Java Developer at Hitec
- Graduate in Computer Engineering

Mr. Frias Favero, Pedro Luis

- Co-founder and CTO at Swearit
- COO at Key Identification
- Degree in Industrial Engineering from Yacambú University, in Venezuela
- Expert in Blockchain and Decentralized Applications at the University of Alcalá, Spain





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Module 1. Javascript Language Applied to Full Stack Developer

- 1.1. Primitive Types and Operators
 - 1.1.1. JavaScript Language
 - 1.1.2. Numbers and Their Operators
 - 1.1.3. Text Strings and Their Operators
 - 1.1.4. Boolean Values
 - 1.1.5. Conversion Between Types
- 1.2. Flow Controllers and Structure
 - 1.2.1. Expressions and Statements
 - 1.2.2. Variables and Constants
 - 1.2.3. If Statement
 - 1.2.4. For, While Statements
- 1.3. Functions
 - 1.3.1. Functions
 - 1.3.2. Parameters
 - 1.3.4. Functions as Parameters
 - 1.3.5. Scope of Variables
 - 1.3.6. Nested Scopes
 - 1.3.7. Hoisting
 - 1.3.8. Closures
 - 1.3.9. Recursion
- 1.4. Data Structures: Objects
 - 1.4.1. Object Type
 - 1.4.2. Creation of Objects
 - 1.4.3. Accessing the Values of an Object
 - 1.4.4. Adding or Deleting Properties
 - 1.4.5. Nested Objects
 - 1.4.6. Destructuring Objects
 - 1.4.7. Object Type Methods
 - 1.4.8. Spread Operator
 - 1.4.9. Immutability

- 1.5. Data Structures: Array
 - 1.5.1. Data Structure. Array
 - 1.5.2. Array. Typology
 - 1.5.3. Nested Arrays
 - 1.5.4. Methods of an Array
- 1.6. OOP: Prototype and Classes
 - 1.6.1. OOP: Object Oriented Programming
 - 1.6.2. Prototypes
 - 1.6.3. Classes
 - 1.6.4. Private Data
 - 1.6.5. Subclasses
 - 1.6.6. Call and Apply
- 1.7. JavaScript Types
 - 1.7.1. Set
 - 1.7.2. WeakSet
 - 1.7.3. Map
 - 1.7.4. WeakMap
 - 1.7.5. Common Expressions
- 1.8. JavaScript Utilities
 - 1.8.1. Date
 - 1.8.2. Math
 - 1.8.3. Symbol
 - 1.8.4. JSON
- 1.9. JavaScript in the Browser
 - 1.9.1. Inclusion of JavaScript in a Web
 - 1.9.2. DOM
 - 1.9.3. Events
 - 1.9.4. Browser Storage
- 1.10. Asynchronous Programming
 - 1.10.1. Asynchronous Programming
 - 1.10.2. Event loop
 - 1.10.3. Calbacks
 - 1.10.4. Promises
 - 1.10.5. Async/Await

Module 2. Javascript Tools. Reactjs Library

- 2.1. ReactJS Javascript Tool
 - 2.1.1. The ReactJS Tool
 - 2.1.2. Create React App
 - 2.1.3. JavaScript Syntax Extension
- 2.2. ReactJS Components
 - 2.2.1. Components
 - 2.2.2. Props
 - 2.2.3. Rendering
- 2.3. Events in the ReactJS Library
 - 2.3.1. Event Handling
 - 2.3.2. Inline Event Handling
 - 2.3.3. Events in the ReactJS Library
- 2.4. Configuring ReactJS Hooks
 - 2.4.1. Status of a Component
 - 2.4.2. Status Hook
 - 2.4.3. Hook Effect
 - 2.4.4. Custom Hooks
 - 2.4.5. Other Hooks
- 2.5. Context Component in ReactJS
 - 2.5.1. Context Component in ReactJS
 - 2.5.2. Using Context
 - 2.5.3. Context Structure
 - 2.5.4. React.CreateContext
 - 2.5.5. Context.Provider
 - 2.5.6. Class.contextType
 - 2.5.7. Context.Consumer
 - 2.5.8. Context.displayName
 - 2.5.9. Practical Application of Context Usage

- .6. Routing in ReactJs
 - 2.6.1. Router
 - 2.6.2. React router
 - 2.6.3. Installation
 - 2.6.4. Basic Routing
 - 2.6.5. Dynamic Routing
 - 2.6.6. Primary Components
 - 2.6.7. React Router Hooks
- 2.7. Using Lists and Forms with ReactJS
 - 2.7.1. Lists and Loops
 - 2.7.2. Forms and Validations
 - 2.7.3 Rect Hook Forms
- 2.8. Using Styles in ReactJS
 - 2.8.1. Traditional Styling
 - 2.8.2. Inline Styling
 - 2.8.3. Addition of Design System Library
- 2.9. Performing Tests in Javascript. Data Science
 - 2.9.1. Testing
 - 2.9.2. Jest JavaScript Testing Framework
 - 2.9.3. Visual testing and Documentation
- 2.10. Code Deployment with ReactJS
 - 2.10.1. Hosting
 - 2.10.2. Suppliers
 - 2.10.3. Project Preparation
 - 2.10.4. Deployment on Heroku

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Module 3. JavaScript Framework. Angular

- 3.1. The Angular Framework and its Architecture
 - 3.1.1. Angular CLI
 - 3.1.2. Architecture
 - 3.1.3. Workspace and Structure
 - 3.1.4. Environment
- 3.2. Angular Framework Components
 - 3.2.1. Life Cycle
 - 3.2.2. View Encapsulation
 - 3.2.3. Interaction Between Components
 - 3.2.4. Content Projection
- 3.3. Angular Framework Templates
 - 3.3.1. Text Interpolation
 - 3.3.2. Declarations
 - 3.3.3. Property Binding
 - 3.3.4. Class, Style and Attribute Binding
 - 3.3.5. Event Binding and Two-Way Binding
 - 3.3.6. Pipes
- 3.4. Angular Framework Directives
 - 3.4.1. Angular Directives
 - 3.4.2. Attribute Directives
 - 3.4.3. Structure Directives
- 3.5. Services and Dependency Injection
 - 3.5.1. Services
 - 3.5.2. Dependency Injection
 - 3.5.3. Service Providers
- 3.6. Routing and Navigation
 - 3.6.1. Application with Routing
 - 3.6.2. Basic Routing
 - 3.6.3. Nested Routes
 - 3.6.4. Parameters
 - 3.6.5. Access and Authorization
 - 3.6.6. Lazy Loading of Modules





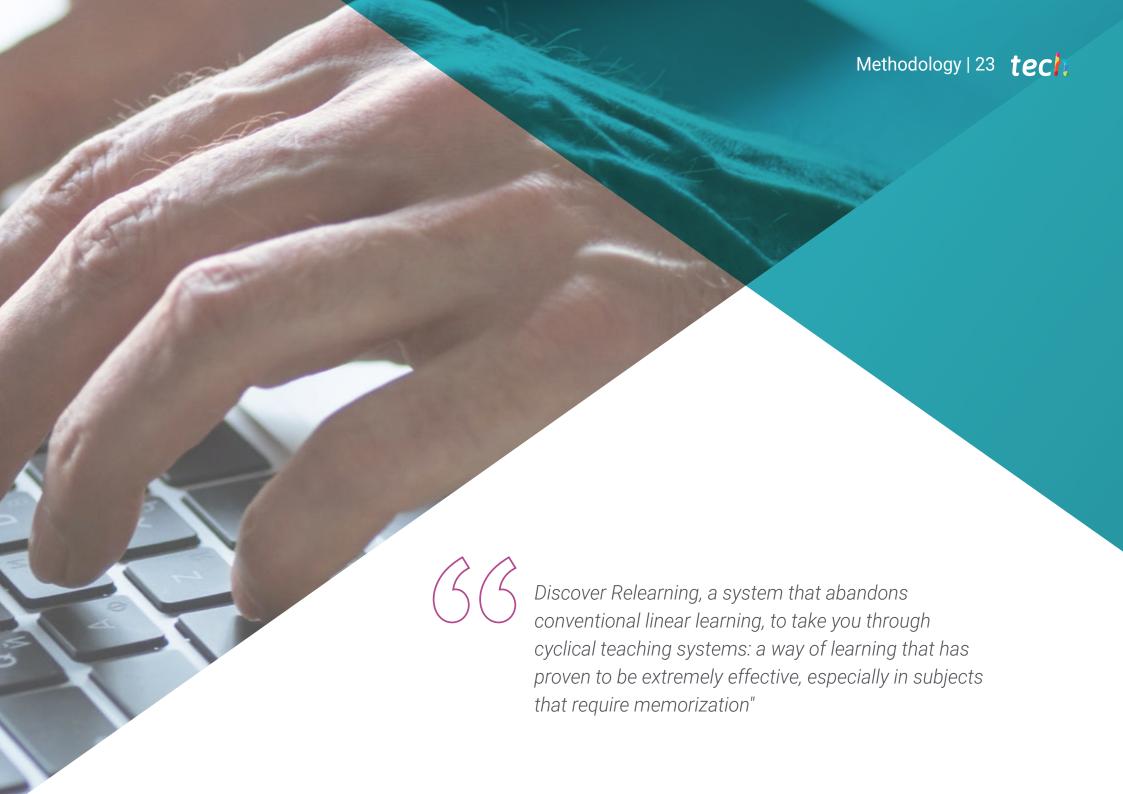
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- 3.7. RxJS
 - 3.7.1. Observables
 - Observers
 - 3.7.3. Subscriptions
 - Operators
- Forms and HTTP
 - 3.8.1. Reactive Forms
 - 3.8.2. Field Validation
 - 3.8.3. Dynamic Forms
 - 3.8.4. Requests
 - Interceptors
 - 3.8.6. Security/Safety
- 3.9. Animations
 - 3.9.1. Transitions and Triggers
 - 3.9.2. Path Transitions
 - Differences Between Transitions
- 3.10. Testing in the Angular Framework
 - 3.10.1. Testing Services
 - 3.10.2. Component Testing
 - 3.10.3. Testing of Directives and Pipelines



There is no more in-depth and innovative content in and innovative content in JavaScript Development. Enroll now and check it out"





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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.



Methodology | 27 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.

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.





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.

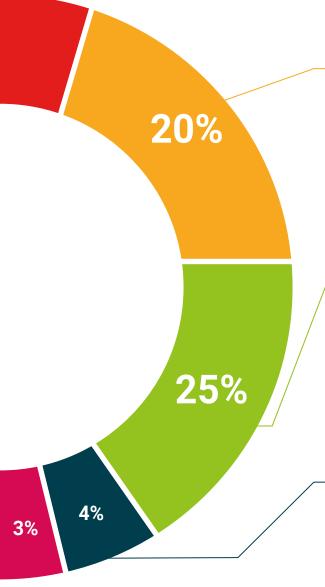


This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".

Testing & Retesting

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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.







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This program will allow you to obtain your **Postgraduate Diploma in JavaScript Development** endorsed by **TECH Global University**, the world's largest online university.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

Title: Postgraduate Diploma in JavaScript Development

Modality: online

Duration: 6 months

Accreditation: 18 ECTS



Mr./Ms. _____, with identification document _____ has successfully passed and obtained the title of:

Postgraduate Diploma in JavaScript Development

This is a program of 450 hours of duration equivalent to 18 ECTS, with a start date of dd/mm/yyyy and an end date of dd/mm/yyyy.

TECH Global University is a university officially recognized by the Government of Andorra on the 31st of January of 2024, which belongs to the European Higher Education Area (EHEA).

In Andorra la Vella, on the 28th of February of 2024



^{*}Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH Global University will make the necessary arrangements to obtain it, at an additional cost.

health confidence people leducation information tutors guarantee accreditation teaching institutions technology learning



Postgraduate Diploma JavaScript Development

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Global University
- » Credits: 18 ECTS
- » Schedule: at your own pace
- » Exams: online

Postgraduate Diploma JavaScript Development

