





## Postgraduate Certificate Technology Project Schedule Management

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

Website: [www.techtitute.com/us/information-technology/postgraduate-certificate/technology-project-schedule-management](http://www.techtitute.com/us/information-technology/postgraduate-certificate/technology-project-schedule-management)

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# 01

# Introduction

The correct planning of a schedule is essential for the development of the activities of any project, since it allows to manage and control the times, deadlines and duration of the different phases of the work. Therefore, IT professionals who want to lead a team must know the keys to planning activities according to deadlines. With this program, the student will acquire new skills to plan these tasks and will be able to establish a list of priorities and monitor the sequence by means of a network diagram. Undoubtedly, this program will become a useful work guide that will open the doors to a highly competitive market.





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*Estimate the resources allocated to the activities of your project”*

This course presents, in a way that is both educational and practical, all the phases involved in the implementation of a schedule of activities that helps to clarify the tasks that correspond to each member of the work team. To do this, we will begin by learning what is the "three-value estimation", which is a technique to value the cost or duration of a project, visualizing a pessimistic, a more probable and an optimistic consideration.

Also, the activities and the breakdown of the work in the project will be defined, creating a list of the functions of each member; and the students will be introduced to a series of programs that will help to cover the work. With all this, the student is expected to learn how to calculate the minimum and maximum times that help to maintain a margin of slack in each delivery.

As a result, with the knowledge provided in the program, the student will be able to make accurate, quick and effective decisions, which will be supported by concrete data on the reality of the job.

This **Postgraduate Certificate in Technology Project Schedule Management** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ The development of case studies presented by experts in Technology Project Management
- ◆ The graphic, schematic and practical contents of the system provide business and practical information on those 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 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



*Design, develop and manage  
the timeline of activities in  
any technology project"*

“ *Keep track of your business plan updates and you will position yourself as an organized and efficient computer scientist* ”

The program's teaching staff includes professionals from sector who contribute their work experience to this training 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 training 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 during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.

*Bring an innovative point of view to your planning, using time management software.*

*With this program, you will achieve professional improvement within your work team.*



# 02 Objectives

TECH Technological University's Postgraduate Certificate in Technology Project Schedule Management seeks to improve the organizational and time management skills of professionals interested in participating in the management of projects in the Information Technology (IT) department for which they provide their services. This way, they will be able to estimate the duration of a task and define the activities that are indispensable for the satisfactory completion of the planned work.





### High Priority

	Info	Status
Weekly summary to partners	Last edited an hour ago	New Task
Contact real estate agent	Last edited 15 minutes ago	Completed
Task Report brief	Last edited a week ago	In Progress

### Medium Priority

	Info	Status
Section for new pricing	Last edited 5 minutes ago	In Progress
Link app structure	Last edited an hour ago	In Progress
API	Last edited a week ago	Completed
Out to potential partners	Last edited an hour ago	In Progress

### Low Priority

	Info	Status
Project	Last edited an hour ago	In Progress
Changes in interface	Last edited an hour ago	In Progress



*If your goal is to lead an Information Technology (IT) team, this Postgraduate Certificate is for you"*



## General Objectives

- ◆ Develop skills and abilities required to make decisions in all types of projects, especially in technological projects and those developed in multidisciplinary contexts and environments
- ◆ Acquire the ability to analyze and diagnose business and management problems
- ◆ Master advanced business management tools
- ◆ Provide a global and strategic vision of all operational departments of the company
- ◆ Take responsibility and think in a transversal and integrative way to analyze and solve situations in uncertain environments
- ◆ Develop acts of incorporation of Technology Projects
- ◆ Carry out a comprehensive control of all projects
- ◆ Knowing how to estimate time in each process of project design and development
- ◆ Evaluate the processes and estimate the cost of developing a technology project
- ◆ Give importance to the quality of the projects
- ◆ Understanding the cost of failing to meet project quality
- ◆ Perform quality controls at each stage of the project
- ◆ Gain skills and techniques to manage human resources and be able to resolve conflicts in the team
- ◆ Knowing the emerging trends in the market
- ◆ Develop communication skills to successfully manage the work teams of the Technology Projects
- ◆ Understand and manage the risks of technology projects





## Specific Objectives

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- ◆ Estimate the duration of project tasks by means of different strategies, such as three value estimation, analogous estimation, bottom up estimation, etc
- ◆ Evaluate and deconstruct the activities to be carried out, starting with their definition and ending with the expected objectives
- ◆ Know the different software that help with time management

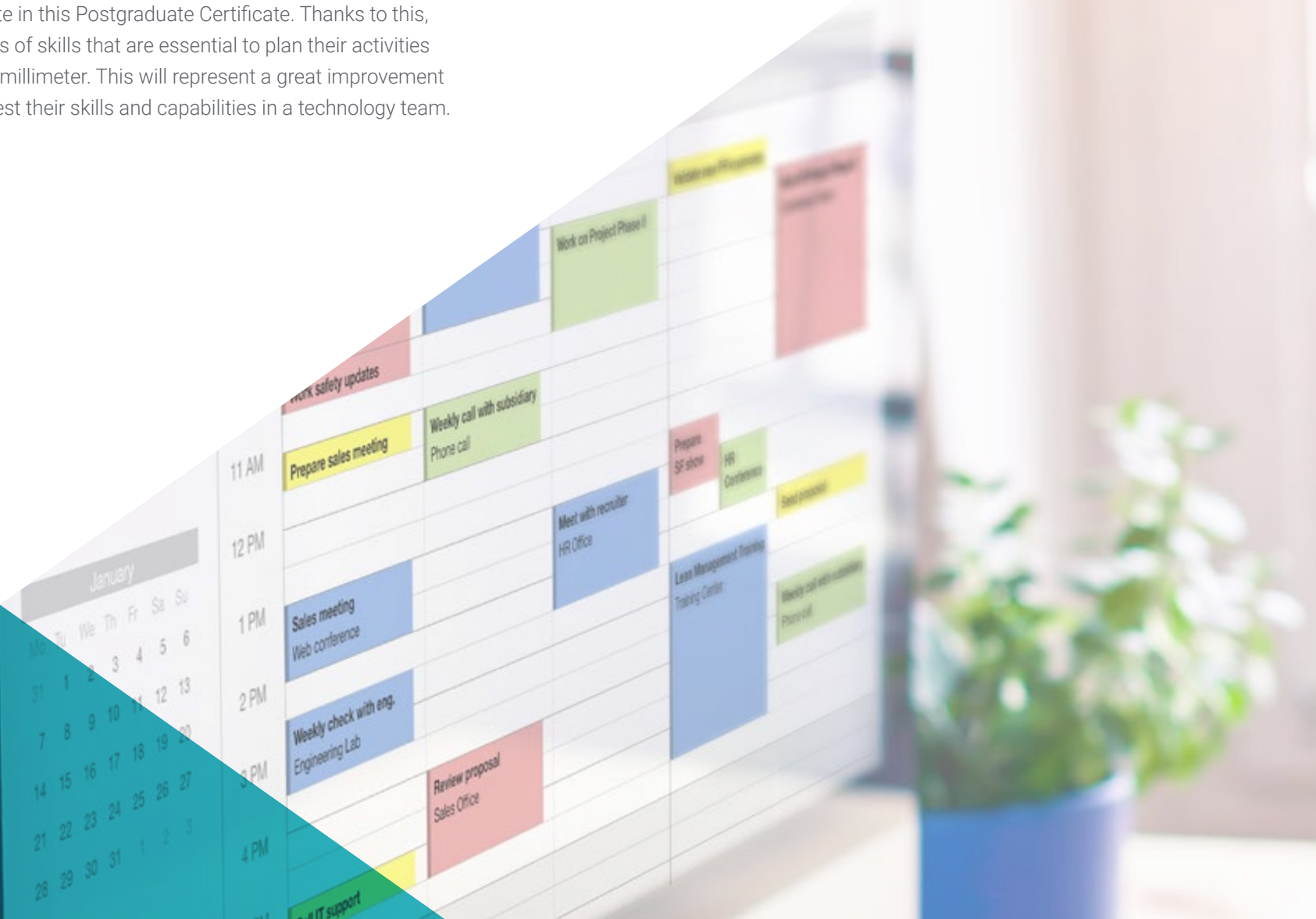
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*Work to achieve your objectives and specialize in the management of project activities”*

# 03

# Course Management

A group of experts who have gained experience in the sector by managing various technological projects will participate in this Postgraduate Certificate. Thanks to this, students will be able to learn a series of skills that are essential to plan their activities and those of their work team to the millimeter. This will represent a great improvement opportunity for those who wish to test their skills and capabilities in a technology team.





“

*The program is taught by the best experts in the management and direction of Technology Projects”*

## Management



### **Dr. Romero Mariño, Brunil Dalila**

- Database Administrator, OCREM Association, Granada, Spain
- Software Projects and Technology Architecture Consultant for different companies, Venezuela
- University Professor of Computer Science. Department of Processes and Systems, Simón Bolívar University (USB), Venezuela
- Researcher in Software Engineering and related areas, Department of Processes and Systems, Simón Bolívar University (USB), Venezuela
- Systems Engineer from Bicentenario de Aragua University (UBA), Venezuela
- Doctorate in Information and Communication Technologies from the University of Granada (UGR), Spain
- Master's Degree in Systems Engineering, Simón Bolívar University (USB), Venezuela
- Expert in Communications and Data Communication Networks, Central University of Venezuela (UCV)



# 04

## Structure and Content

The Schedule of Activities of a Technology Project is important and must be carried out taking care of every detail. With this TECH Technological University Postgraduate Certificate, special attention will be paid to this aspect, analyzing the importance of controlling and managing processes to meet the schedule. Therefore, this academic program will provide different materials, case studies and an innovative methodology to ensure that students understand the contents taught and can apply them in their daily practice.





“

*Learn the appropriate way to monitor the activities planned for the Technology Project”*

## Module 1. Time Management for Technology Projects

- 1.1. Estimated Duration of Project Tasks
  - 1.1.1. Three Point Estimation
    - 1.1.1.1. Most Likely
    - 1.1.1.2. Best-Case
    - 1.1.1.3. Worst-Case
  - 1.1.2. Analogous Estimate
  - 1.1.3. Parametric Estimation
  - 1.1.4. Bottom up Estimates
  - 1.1.5. Decision-Making
  - 1.1.6. Expert Judgment
- 1.2. Definition of Activities and Breakdown of Project Work
  - 1.2.1. Decomposition
  - 1.2.2. Define Activities
  - 1.2.3. Breakdown of Project Work
  - 1.2.4. Activity Attributes
  - 1.2.5. List of Milestones
- 1.3. Sequencing of activities
  - 1.3.1. List of Activities
  - 1.3.2. Attributes of the Activities
  - 1.3.3. Method of Diagramming Provenance
  - 1.3.4. Determination and Integration of Units
  - 1.3.5. Advances and Delays
  - 1.3.6. Network Diagram of the Project Schedule
- 1.4. Estimation of Activity Resources
  - 1.4.1. Register of Assumptions
  - 1.4.2. List of Activities
  - 1.4.3. Attributes of the Activities
  - 1.4.4. Register of Assumptions
  - 1.4.5. Lessons Learned Register
  - 1.4.6. Project Team Assignments
  - 1.4.7. Resource Breakdown Structure
- 1.5. Estimated Duration of Activities
  - 1.5.1. Law of Diminishing Returns
  - 1.5.2. Number of Resources
  - 1.5.3. Technological Advances
  - 1.5.4. Staff Motivation
  - 1.5.5. Project Documentation
- 1.6. Schedule Development
  - 1.6.1. Schedule Network Analysis
  - 1.6.2. Critical Path Method
  - 1.6.3. Resource Management
    - 1.6.3.1. Resource Leveling
    - 1.6.3.2. Stabilization of Resources
  - 1.6.4. Advances and Delays
  - 1.6.5. Schedule Compression
    - 1.6.5.1. Intensification
    - 1.6.5.2. Fast Execution
  - 1.6.6. Baseline Schedule
  - 1.6.7. Project Timeline
  - 1.6.8. Schedule Data
  - 1.6.9. Project Schedules
- 1.7. Types of Relationships and Types of Dependencies between All Project Activities
  - 1.7.1. Mandatory Dependencies
  - 1.7.2. Discretionary Units
    - 1.7.2.1. Preferred Logic
    - 1.7.2.2. Preferential Logic
    - 1.7.2.3. Soft Logic
  - 1.7.3. External Units
  - 1.7.4. Internal Units
- 1.8. Time Management Software in Technology Projects
  - 1.8.1. Analysis of Different Software
  - 1.8.2. Types of Software
  - 1.8.3. Functionalities and Coverage
  - 1.8.4. Uses and Advantages

- 1.9. Schedule Control
  - 1.9.1. Job Performance Information
  - 1.9.2. Schedule Forecasts
  - 1.9.3. Change Requests
  - 1.9.4. Update to the Time Management Plan
  - 1.9.5. Project Document Updates
- 1.10. Time Recalculation
  - 1.10.1. Critical Path
  - 1.10.2. Calculation of Minimum and Maximum Times
  - 1.10.3. Project Clearances
    - 1.10.3.1. What Is It?
    - 1.10.3.2. How to Use It
  - 1.10.4. Total Slack
  - 1.10.5. Free Slack



*Estimate the duration of tasks to ensure the productivity of your work team"*

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

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 Technology Project Schedule Management 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 Technology Project Schedule Management** 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 Technology Project Schedule Management**  
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  
development language  
classroom



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