

Postgraduate Diploma Energy Saving and Sustainability in Buildings





Postgraduate Diploma Energy Saving and Sustainability in Buildings

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

Website: www.techtute.com/pk/engineering/postgraduate-diploma/postgraduate-diploma-energy-saving-sustainability-buildings

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01

Introduction

This module develops the content related to the Energetic Rehabilitation of Existing Buildings, analyzing the main concepts, the analysis of the building or the methodology to be followed, the analysis of the Constructive Pathologies, the regulatory framework of the possible intervention proposals.

In this way, the different singular encounters of elements that constitute the Thermal Envelope and that are object of Energetic Rehabilitation (thermal envelope) are analyzed, such as Foundations, Roofs, Façades, Exterior Slabs, Carpentries and Glass and the existing Installations.

Energy saving is a social and economic demand of the first order nowadays. In this Postgraduate Diploma we propose a training course that will allow you to adapt to the most interesting developments in the sector.





“

Acquire the most advanced and up-to-date knowledge in the field of Building Rehabilitation and Energy Saving with a highly qualified expert and training impact”

This very complete Postgraduate Diploma develops the content related to the actions related to Energy Saving in New Buildings, analyzing the methodology to be followed, the analysis of the Constructive Pathologies, the regulatory framework, the possible proposals for intervention, as well as the possible problems in the development.

In this way, the different singular encounters of elements that constitute the Thermal Envelope and that are the object of the optimization of the thermal envelope are analyzed, such as Foundations, Roofs, Façades, External Slabs, Carpentries and Glass and the existing Installations.

In addition, we analyze the interventions with measures to optimize Energy Saving in Singular New Buildings, in which the technical conditioning factor of the composition of materials and installation alternatives are considerable.

We will describe the methodology for the development of the economic study of the different solutions or project alternatives with measures to optimize Energy Saving in New Buildings.

The accuracy of the studies described above will lead to the estimation of the appropriate solution and intervention alternatives based on the objectives to be achieved.

Another aspect that will be presented is the clear difference between Sustainability and Energy Efficiency, the Evolution of Sustainability and the description of the different Sustainability certifications that can be found in the international market.

The LEED International Sustainability Certification (USA), the origin, the types of LEED Certification that can be developed in a building or urban planning intervention, the levels of Certification and LEED criteria to be implemented will be presented.

We will describe the LEED ZERO International Sustainability Certification (USA), the origin, the types of LEED ZERO Certification that can be developed in a building or urban planning intervention, the levels of Certification and LEED ZERO criteria to be implemented.

This **Postgraduate Diploma in Energy Saving and Sustainability in Buildings** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ Latest technology in online teaching software
- ◆ Highly visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand
- ◆ Practical cases presented by practising experts
- ◆ State-of-the-art interactive video systems
- ◆ Teaching supported by telepractice
- ◆ Continuous updating and recycling systems
- ◆ Self-regulating learning: full compatibility with other occupations
- ◆ Practical exercises for self-evaluation and learning verification
- ◆ Support groups and educational synergies: questions to the expert, debate and knowledge forums
- ◆ Communication with the teacher and individual reflection work
- ◆ Content that is accessible from any fixed or portable device with an Internet connection
- ◆ internet connection
- ◆ Supplementary documentation databases that are permanently available, even after the course has concluded



Join the elite, with this highly effective training training and open new paths to help you advance in your professional progress"

“

With the experience of active professionals and the analysis of real cases of success in the application and use of energy saving systems in buildings”

Our teaching staff is made up of professionals from different fields related to this specialty. In this way, we ensure that we provide you with the educational update we are aiming for. A multidisciplinary team of professionals trained and experienced in different environments, who will develop the theoretical knowledge in an efficient way, but above all, they will bring their practical knowledge from their own experience to the course: one of the differential qualities of this training.

This mastery of the subject matter is complemented by the effectiveness of the methodological design. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. This way, you will be able to study with a range of comfortable and versatile multimedia tools that will give you the operability you need in your education.

The design of this program is based on Problem-Based Learning: an approach that conceives learning as a highly practical process. To achieve this remotely, we will use telepractice: with the help of an innovative interactive video system, and learning from an expert, you will be able to acquire the knowledge as if you were actually dealing with the scenario you are learning about. A concept that will allow you to integrate and fix learning in a more realistic and permanent way.

With a methodological design based on proven teaching techniques, this innovative course will take you through different teaching approaches to allow you to learn in a dynamic and effective way.

Our innovative telepractice concept will give you the opportunity to learn through an immersive experience, which will provide you with a faster integration and a much more realistic view of the contents: “learning from an expert.”



02 Objectives

Our objective is to train highly qualified professionals for work experience. An objective that is complemented, moreover, in a global manner, by promoting human development that lays the foundations for a better society. This objective is materialized in helping professionals to reach a much higher level of competence and control. A goal that, in just a few months, you will be able to achieve with high intensity and effective educational program.



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If your objective is to broaden your skills set to include new paths of success and development, this is your Professional Master's Degree: a training that aspires to excellence"



General Objectives

- ◆ Undertake the particularities to correctly manage the design, project, construction and execution of Energy Rehabilitation Works (Existing Buildings) and Energy Saving (New Buildings)
- ◆ Interpret the current regulatory framework based on current regulations and the possible criteria to be implemented for energy efficiency in buildings
- ◆ Discover the potential business opportunities offered by the knowledge of the various energy efficiency measures, from studying tenders and technical tenders for construction contracts, projecting buildings, analyzing and directing the works, managing, coordinating and planning the development of Energy Saving and Rehabilitation Projects
- ◆ Ability to analyze Building Maintenance programs developing the study of appropriate Energy Saving measures to be implemented according to the technical requirements
- ◆ Delve into the latest trends, technologies and techniques in the field of Energy Efficiency in Buildings



Specific Objectives

- ◆ Master the main concepts of the methodology to be followed in the development of an energy rehabilitation study analysis according to the criteria to be implemented
- ◆ Interpret the pathologies of foundations, roofs, facades and exterior slabs, carpentry and glazing, as well as installations, developing the study of Energy Rehabilitation of an existing building, from data collection, analysis and evaluation, study of the different proposals for improvement and conclusions, study of technical regulations of application
- ◆ Establish the guidelines that must be taken into account in the development of energy rehabilitation interventions in historic buildings, from data collection, analysis and evaluation, study of the different proposals for improvement and conclusions, study of the technical regulations applicable
- ◆ Acquire the necessary knowledge to develop an economic study of energy rehabilitation based on the analysis of the cost, execution times, the conditions of specialization of the works, the guarantees and specific tests to be requested
- ◆ Elaborate an assessment of the appropriate energy rehabilitation intervention and its alternatives based on the analysis of the different intervention options, based on the analysis of costs based on amortization, the correct selection of objectives, as well as a final extract with the possible courses of action
- ◆ Know the building categories, an analysis of the constructive solutions and objectives to be achieved, as well as the elaboration of a cost study of the various intervention proposals
- ◆ Interpret the possible pathologies of new buildings based on the study of foundations, roofs, facades and exterior slabs, carpentry and glazing, as well as installations, developing the complete energy rehabilitation study from data collection, analysis and evaluation, the study of the different improvement proposals and conclusions, study of the applicable technical regulations

- ◆ Establish the guidelines that must be taken into account in the development of new building interventions with energy saving in singular buildings, from data collection, analysis and evaluation, study of the different improvement proposals and conclusions, study of technical regulations of application
- ◆ Acquire the necessary knowledge to develop an economic study of New Energy Saving Works based on the analysis of the cost, execution times, the conditions of specialization of the works, the guarantees and specific tests to be requested
- ◆ Elaborate an assessment of the appropriate intervention of a New Energy Efficiency Building intervention and its alternatives based on the analysis of the different intervention options, based on the analysis of costs based on amortization, the correct selection of objectives, as well as a final extract with the possible
- ◆ courses of action
- ◆ Delve into the scope of international sustainability and energy efficiency certifications, as well as current zero/zero consumption certifications
- ◆ Discuss in detail the LEED, BREEAM and GREEN sustainability certifications, the origins, types of certifications, certification levels, as well as the criteria
- ◆ to be implemented
- ◆ Learn about LEED ZERO Certification, its origin, certification levels, criteria to be implemented and development framework
- ◆ Discuss in detail the Passivhaus, EnePHit, Minergie and NZEB certifications, the origins, the certification levels, the criteria to be implemented and the framework for the development of nearly zero/zero energy buildings
- ◆ Learn more about WELL Certification, its origin, certification levels, criteria to be implemented and development framework

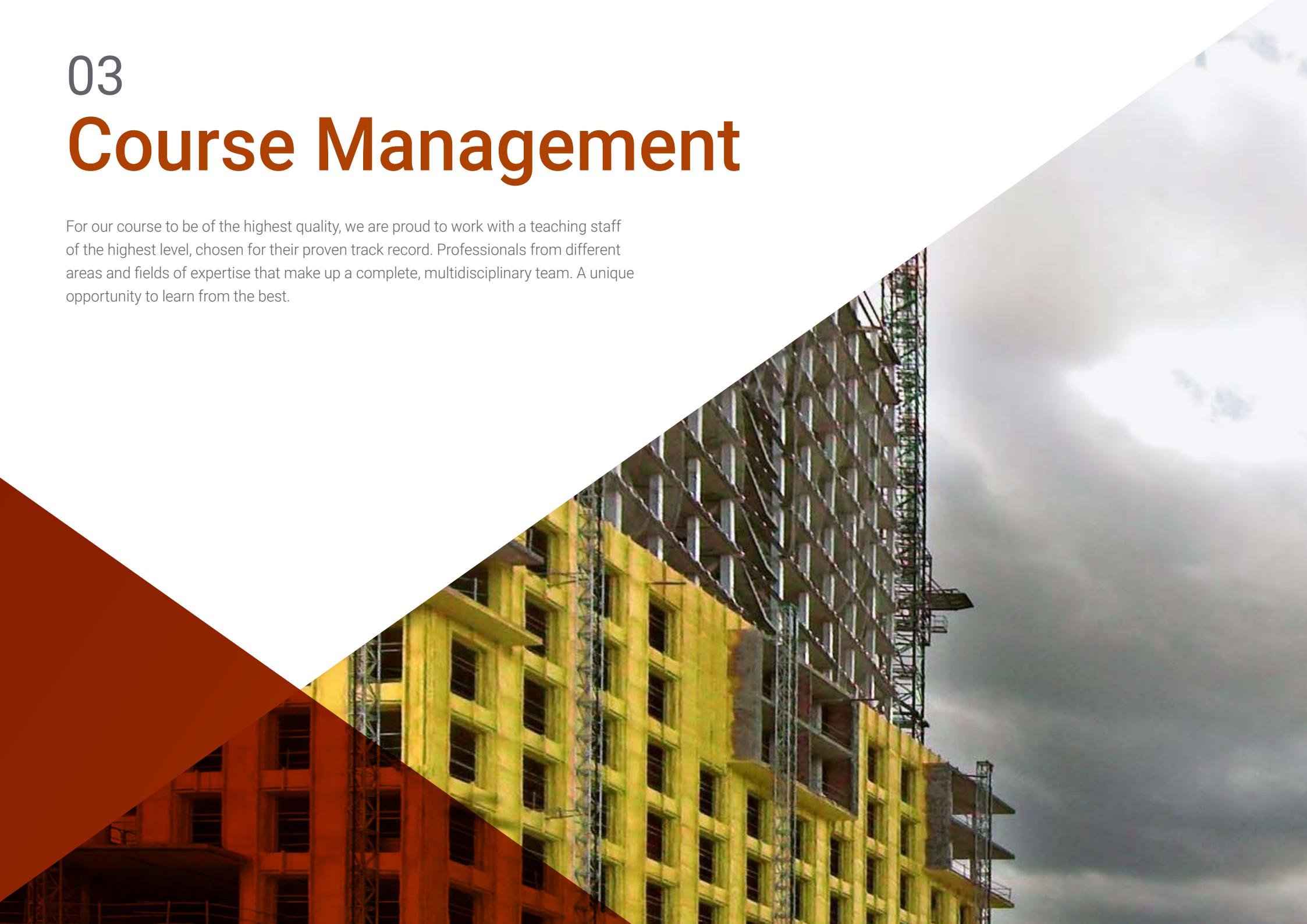


A path to achieve education and professional growth that will propel you towards a greater level of competitiveness in the employment market"

03

Course Management

For our course to be of the highest quality, we are proud to work with a teaching staff of the highest level, chosen for their proven track record. Professionals from different areas and fields of expertise that make up a complete, multidisciplinary team. A unique opportunity to learn from the best.



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Our university employs the best professionals in all areas who share their knowledge to help you"

Management



Ms. Peña Serrano, Ana Belén

- Content writer on renewable energies and energy efficiency for leading technical magazines and websites
- Technical Engineering in Topography by the Polytechnic University of Madrid
- Master's Degree in Renewable Energies from San Pablo CEU University
- Qualifying training in Wind Energy Installations by LevelCOM Formación
- Energy Certification of Buildings by Fundación Laboral de la Construcción
- Geological Cartography by the Universidad Nacional de Educación a Distancia (National University of Distance Education)
- Collaborates in different scientific communication projects, directing the dissemination of engineering and energy in different media
- Director of renewable energy projects of the Master in Environmental and Energy Management in Organizations of the UNIR
- Teacher of the Professional Master's Degree in Energy Saving and Sustainability in Buildings and several other programs at TECH-Technological University

Professors

Mr. Almenara Rodríguez, José Luís

- ♦ Industrial Technical Engineer
- ♦ Technical Industrial Chemical Engineering from the Polytechnic University of Catalonia
- ♦ Advanced Course in Safety Management. Prosulting. Rey Juan Carlos University
- ♦ Specialization Course in Photovoltaic Solar Energy by the Polytechnic University of Catalonia
- ♦ Expert Course in Energy Management of Buildings and Installations (Structuralia)
- ♦ Energy Certification and External Control Course (Structuralia)
- ♦ Course on Water Management and Control in Industry (Stenco)
- ♦ More than 10 years of experience in the technical management of healthcare facilities (technical reports, supervision of maintenance services, cost control of spare parts, improvement proposals, preparation of comparative reports, monitoring and implementation of Energy Efficiency Plans in hospital facilities)
- ♦ He has developed his activity in the civil works sector, with an outstanding role as quality and environmental manager in linear works

Ms. Rodríguez Jordán, Daniela

- ♦ Architect in the Support Program for the National Early Childhood Plan
- ♦ Specialist in Eco-efficient Building Rehabilitation and use of BIM. EMVISESA
- ♦ Developer of high-rise housing developments. One on One
- ♦ Management of municipal procedures and urban code consultancy
- ♦ Design studio dedicated to interior design. Maso Studio
- ♦ Architecture FADU, UBA
- ♦ Si Fadu Project. Research topic: Sustainability in existing buildings in CABA FADU, UBA
- ♦ Eco-efficient Rehabilitation of Buildings and Neighborhoods. Master-University of Seville

04

Structure and Content

The contents of this training have been developed by different experts a clear purpose: to ensure that our students acquire each and every one of the skills necessary to become true experts in this field.

A complete and well-structured program that will take you to the highest standards of quality and success.



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*A comprehensive teaching program,
structured in well-developed teaching units,
oriented towards learning that is compatible
with your personal and professional life"*

Module 1. Energy Rehabilitation of Existing Buildings

- 1.1. Methodology
 - 1.1.1. Establishment of Building Categories
 - 1.1.2. Analysis of Construction Pathologies
 - 1.1.3. Analysis of the Objectives of the Regulations
- 1.2. Study of Pathologies of Foundations of Existing Buildings
 - 1.2.1. Analysis and Evaluation
 - 1.2.2. Proposals for Improvement and Conclusions
 - 1.2.3. Technical Regulations
- 1.3. Study of Roof Pathologies in Existing Buildings
 - 1.3.1. Analysis and Evaluation
 - 1.3.2. Proposals for Improvement and Conclusions
 - 1.3.3. Technical Regulations
- 1.4. Studies of Pathologies of Facades of Existing Buildings
 - 1.4.1. Analysis and Evaluation
 - 1.4.2. Proposals for Improvement and Conclusions
 - 1.4.3. Technical Regulations
- 1.5. Studies of Pathologies of Exterior Floor Slabs of Existing Buildings
 - 1.5.1. Analysis and Evaluation
 - 1.5.2. Proposals for Improvement and Conclusions
 - 1.5.3. Technical Regulations
- 1.6. Studies of Pathologies of Carpentry and Glazing in Existing Buildings
 - 1.6.1. Analysis and Evaluation
 - 1.6.2. Proposals for Improvement and Conclusions
 - 1.6.3. Technical Regulations
- 1.7. Analysis of Existing Building Installations
 - 1.7.1. Analysis and Evaluation
 - 1.7.2. Proposals for Improvement and Conclusions
 - 1.7.3. Technical Regulations

- 1.8. Study of Energy Rehabilitation Interventions in Historic Buildings
 - 1.8.1. Analysis and Evaluation
 - 1.8.2. Proposals for Improvement and Conclusions
 - 1.8.3. Technical Regulations
- 1.9. Economic Study of Energy Rehabilitation
 - 1.9.1. Cost Analysis
 - 1.9.2. Time Analysis
 - 1.9.3. Specialization of the Works
 - 1.9.4. Guarantees and Specific Tests
- 1.10. Evaluation of Appropriate Intervention and Alternatives
 - 1.10.1. Analysis of the Different Intervention Options
 - 1.10.2. Cost Analysis on a Depreciation Basis
 - 1.10.3. Target Selection
 - 1.10.4. Final Assessment of the Selected Intervention

Module 2. Energy Saving in New Buildings

- 2.1. Methodology
 - 2.1.1. Establishment of Building Categories
 - 2.1.2. Analysis of Construction Solutions
 - 2.1.3. Analysis of the Objectives of the Regulations
 - 2.1.4. Elaboration of the Cost of the Intervention Proposals
- 2.2. Foundation Studies for New Construction
 - 2.2.1. Type of Action
 - 2.2.2. Analysis and Evaluation
 - 2.2.3. Intervention Proposals and Conclusions
 - 2.2.4. Technical Regulations
- 2.3. Studies of New Construction Roofs
 - 2.3.1. Type of Action
 - 2.3.2. Analysis and Evaluation
 - 2.3.3. Intervention Proposals and Conclusions
 - 2.3.4. Technical Regulations

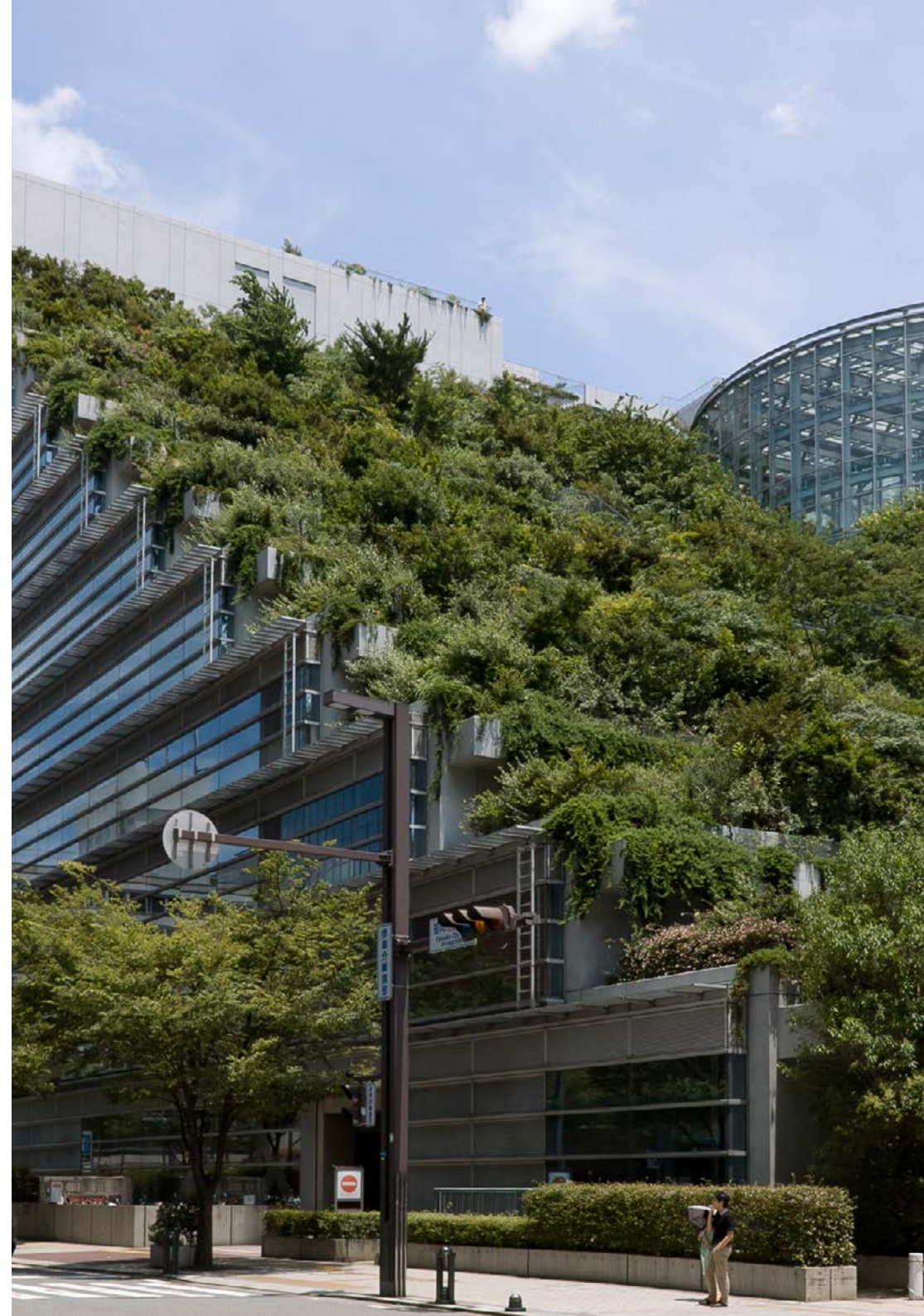


- 2.4. Studies of New Building Facades
 - 2.4.1. Type of Action
 - 2.4.2. Analysis and Evaluation
 - 2.4.3. Intervention Proposals and Conclusions
 - 2.4.4. Technical Regulations
- 2.5. External Floor Slab Studies for New Buildings
 - 2.5.1. Type of Action
 - 2.5.2. Analysis and Evaluation
 - 2.5.3. Intervention Proposals and Conclusions
 - 2.5.4. Technical Regulations
- 2.6. Studies of Carpentry and Glazing of New Buildings
 - 2.6.1. Type of Action
 - 2.6.2. Analysis and Evaluation
 - 2.6.3. Intervention Proposals and Conclusions
 - 2.6.4. Technical Regulations
- 2.7. Analysis of New Construction Installations
 - 2.7.1. Type of Action
 - 2.7.2. Analysis and Evaluation
 - 2.7.3. Intervention Proposals and Conclusions
 - 2.7.4. Technical Regulations
- 2.8. Studies of Options for Energy Saving Measures in Singular Buildings
 - 2.8.1. Type of Action
 - 2.8.2. Analysis and Evaluation
 - 2.8.3. Intervention Proposals and Conclusions
 - 2.8.4. Technical Regulations
- 2.9. Economic Study of the Different Alternatives for Energy Saving in New Buildings
 - 2.9.1. Cost Analysis
 - 2.9.2. Time Analysis
 - 2.9.3. Specialization of the Works
 - 2.9.4. Guarantees and Specific Tests

- 2.10. Evaluation of the Appropriate Solution and Alternatives
 - 2.10.1. Analysis of the Different Intervention Options
 - 2.10.2. Cost Analysis on a Depreciation Basis
 - 2.10.3. Target Selection
 - 2.10.4. Final Assessment of the Selected Intervention

Module 3. International Sustainability, Energy Efficiency and Comfort Certifications

- 3.1. The Future of Energy Efficiency in Building Construction: Sustainability and Energy Efficiency Certifications
 - 3.1.1. Sustainability vs. energy efficiency
 - 3.1.2. Evolution of Sustainability
 - 3.1.3. Types of Certifications
 - 3.1.4. The Future of Certifications
- 3.2. The Leed Certification
 - 3.2.1. Origin of the Standard
 - 3.2.2. Types of Leed Certifications
 - 3.2.3. Levels of Certification
 - 3.2.4. Criteria to be Implemented
- 3.3. The leed zero certification
 - 3.3.1. Origin of the Standard
 - 3.3.2. Leed zero resources
 - 3.3.3. Criteria to be Implemented
 - 3.3.4. Zero Energy Buildings
- 3.4. Breeam Certification
 - 3.4.1. Origin of the Standard
 - 3.4.2. Types of Breeam Certifications
 - 3.4.3. Levels of Certification
 - 3.4.4. Criteria to be Implemented



- 3.5. Green Certification
 - 3.5.1. Origin of the Standard
 - 3.5.2. Types of Green Certifications
 - 3.5.3. Levels of Certification
 - 3.5.4. Criteria to be Implemented
- 3.6. The Passivhaus Standard and its Application in Nearly Zero/Zero Energy Buildings
 - 3.6.1. Origin of the Standard
 - 3.6.2. Passivhaus Certification Levels
 - 3.6.3. Criteria to be Implemented
 - 3.6.4. Zero Energy Buildings
- 3.7. The Enerphit Standard and its Application in Nearly Zero/Zero Energy Buildings
 - 3.7.1. Origin of the Standard
 - 3.7.2. EnerPHit Certification Levels
 - 3.7.3. Criteria to be Implemented
 - 3.7.4. Zero Energy Buildings
- 3.8. The Minergie Standard and its Application in Nearly Zero/Zero Energy Buildings
 - 3.8.1. Origin of the Standard
 - 3.8.2. Minergie Certification Levels
 - 3.8.3. Criteria to be Implemented
 - 3.8.4. Zero Energy Buildings
- 3.9. The nZEB Standard and its Application in Nearly Zero/Zero Energy Buildings
 - 3.9.1. Origin of the Standard
 - 3.9.2. nZEB Certification Levels
 - 3.9.3. Criteria to be Implemented
 - 3.9.4. Zero Energy Buildings
- 3.10. Well Certification
 - 3.10.1. Origin of the Standard
 - 3.10.2. Types of Breeam Certifications
 - 3.10.3. Levels of Certification
 - 3.10.4. Criteria to be Implemented



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

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.





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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.

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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 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.

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.



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.



In this program you will have access to the best educational material, prepared with you 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.

This content is then adapted in an audiovisual format that will create our way of working online, with the latest techniques that allow us to offer you high quality in all of the material that we provide you with.



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 our future difficult decisions.



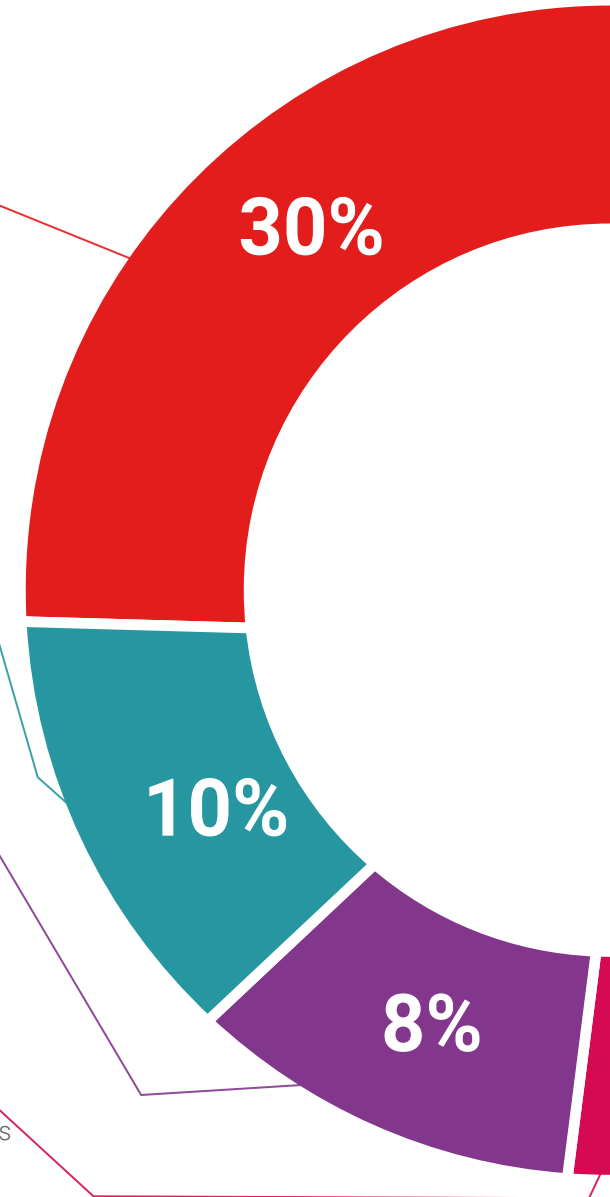
Practicing Skills and Abilities

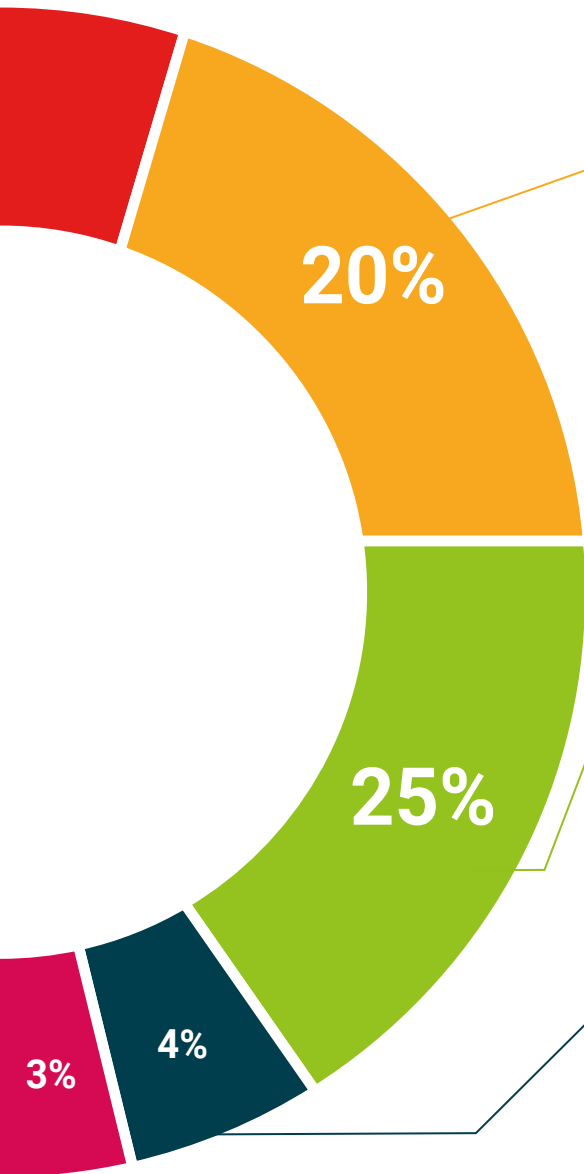
Students will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



Additional Reading

Recent articles, consensus documents, international guides... in our virtual library, students will have access to everything they need to complete their course.





Case Studies

You will complete a selection of the best case studies in the field used at Harvard. Cases that are presented, analyzed, and supervised by the best specialists in the world.



Interactive Summaries

We present 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 assess and re-assess your knowledge throughout the program. We do this on 3 of the 4 levels of Miller's Pyramid.



06

Certificate

The Postgraduate Diploma in Energy Saving and Sustainability in Buildings guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Diploma issued by TECH Technological University.





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Add to your qualifications a Postgraduate Diploma in Energy Saving and Sustainability in Buildings: A highly qualified added value for any professional”

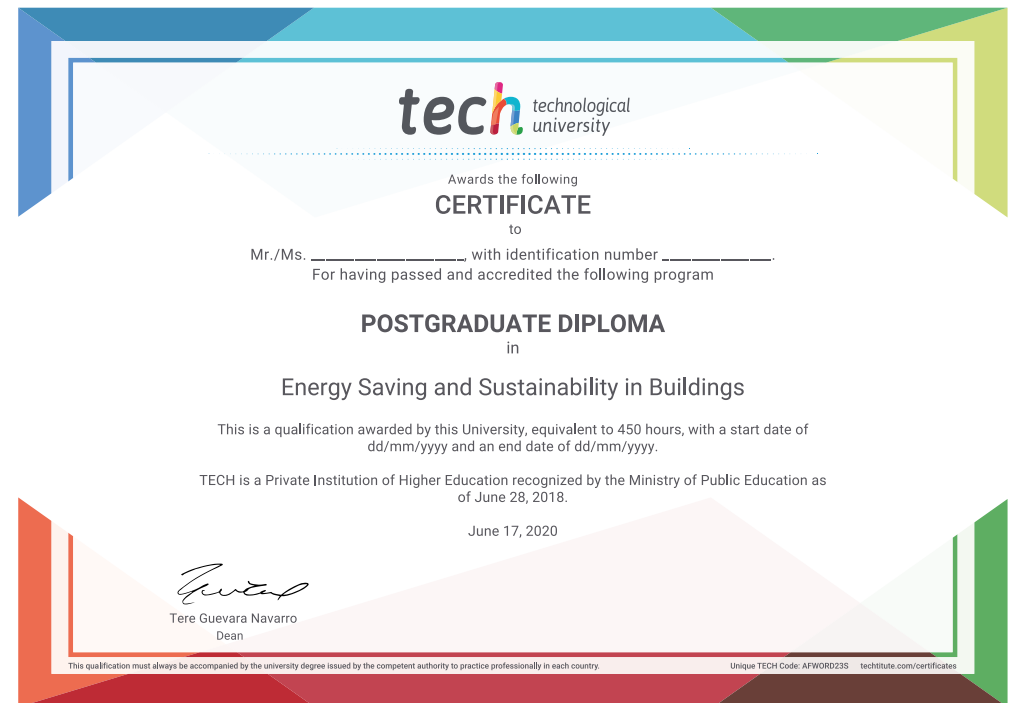
This **Postgraduate Diploma in Energy Saving and Sustainability in Buildings** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Diploma** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Diploma, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Diploma in Energy Saving and Sustainability in Buildings**

Official N° of Hours: **450 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.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present
development languages
classroom



Postgraduate Diploma Energy Saving and Sustainability in Buildings

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