

# Postgraduate Diploma

## Wind Production Studies for Wind Farm Construction



## Postgraduate Diploma Wind Production Studies for Wind Farm Construction

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

Website: [www.techtute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-wind-production-studies-wind-farm-construction](http://www.techtute.com/us/engineering/postgraduate-diploma/postgraduate-diploma-wind-production-studies-wind-farm-construction)

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01

# Introduction to the Program

In 2023, the total installed wind capacity worldwide reached 1,020.7 GW, with significant growth in Offshore Wind Energy. In Spain, 607.23 MW of new wind power capacity were registered, although this still falls short of the 5.2 GW annually needed to meet the targets set by the National Integrated Energy and Climate Plan. Additionally, the implementation of advanced technologies and methodologies, such as Artificial Intelligence, is also optimizing the performance and maintenance of wind farms. In this context, TECH has launched a fully online program that only requires an electronic device with an internet connection to access all educational materials. It is also based on the innovative learning methodology called Relearning.





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*With this 100% online program, you will gain specialized training in wind measurement, modeling, and wind project development, acquiring the technical skills and knowledge that are increasingly in demand”*

Wind Production Studies for Wind Farm Construction are gaining great relevance, driven by the growing demand for renewable energy and advancements in associated technologies. According to the Land-Based Wind Market Report 2024, while there has been a slowdown in the implementation of new wind capacity, the adoption of wind projects is expected to increase considerably in the coming years.

This program was created to equip engineers with the skills needed to design wind measurement campaigns that meet high-quality standards, which will be essential for ensuring the reliability of the data collected. This ability to establish rigorous criteria will also be crucial for presenting feasibility studies to financial institutions, thus securing project funding.

The program will also explore wind resource modeling, taking into account spatial limitations that may affect wind farm design. Furthermore, various topographic sources will be integrated into the calculations, allowing for more precise estimates of potential energy production. Additionally, the program will delve into different methodologies for generating wind production time series, aiming to optimize the planning and evaluation of available resources.

Finally, experts will be trained to identify and prioritize the essential stages and procedures necessary for the effective development of a wind farm. This comprehensive understanding of the process will not only facilitate the execution of wind projects but will also enable engineers to make a significant contribution to the transition toward renewable energy.

As such, TECH has developed a complete, fully online, and flexible program, which will allow graduates to avoid inconveniences such as commuting to a physical center and adjusting to a fixed schedule. Moreover, they will benefit from the revolutionary Relearning methodology, which is based on the repetition of key concepts to ensure optimal and natural assimilation of the content.

This **Postgraduate Diploma in Wind Production Studies for Wind Farm Construction** contains the most complete and up-to-date program on the market. The most important features include:

- ♦ The development of practical cases presented by experts in engineering focused on Wind Energy
- ♦ The graphic, schematic and eminently practical contents with which it is conceived gather scientific and practical information on those disciplines that are indispensable 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
- ♦ The availability of access to the contents from any fixed or portable device with an Internet connection



*Given the continuous growth of the wind industry, characterized by technological advancements, graduates of this program will be better positioned to access job opportunities in an expanding sector"*

“

*You will design wind measurement campaigns that meet high-quality standards, ensuring the reliability of the data collected, using the best educational materials, at the forefront of both technology and education”*

The program's teaching staff includes professionals from the 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 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 course. For this purpose, students will be assisted by an innovative interactive video system created by renowned experts.

*You will be trained to identify and prioritize the stages and procedures necessary for the effective development of a wind farm, with guidance from the best digital university in the world, according to Forbes: TECH.*

*You will delve into different methodologies for generating wind production time series to optimize the planning and evaluation of resources, all thanks to an extensive library of innovative multimedia resources.*



02

# Why Study at TECH?

TECH is the world's largest online university. With an impressive catalog of more than 14,000 university programs available in 11 languages, it is positioned as a leader in employability, with a 99% job placement rate. In addition, it relies on an enormous faculty of more than 6,000 professors of the highest international renown.





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*Study at the world's largest online university  
and guarantee your professional success.  
The future starts at TECH”*



### The world's best online university, according to FORBES

The prestigious Forbes magazine, specialized in business and finance, has highlighted TECH as "the best online university in the world" This is what they have recently stated in an article in their digital edition in which they echo the success story of this institution, "thanks to the academic offer it provides, the selection of its teaching staff, and an innovative learning method oriented to form the professionals of the future".

**Forbes**

The best online university in the world

The most complete  
**syllabus**

### The most complete syllabuses on the university scene

TECH offers the most complete syllabuses on the university scene, with programs that cover fundamental concepts and, at the same time, the main scientific advances in their specific scientific areas. In addition, these programs are continuously updated to guarantee students the academic vanguard and the most demanded professional skills. and the most in-demand professional competencies. In this way, the university's qualifications provide its graduates with a significant advantage to propel their careers to success.

### The best top international faculty

TECH's faculty is made up of more than 6,000 professors of the highest international prestige. Professors, researchers and top executives of multinational companies, including Isaiah Covington, performance coach of the Boston Celtics; Magda Romanska, principal investigator at Harvard MetaLAB; Ignacio Wistumba, chairman of the department of translational molecular pathology at MD Anderson Cancer Center; and D.W. Pine, creative director of TIME magazine, among others.

**TOP**  
international faculty

The most effective methodology

### A unique learning method

TECH is the first university to use Relearning in all its programs. This is the best online learning methodology, accredited with international teaching quality certifications, provided by prestigious educational agencies. In addition, this innovative academic model is complemented by the "Case Method", thereby configuring a unique online teaching strategy. Innovative teaching resources are also implemented, including detailed videos, infographics and interactive summaries.

### The world's largest online university

TECH is the world's largest online university. We are the largest educational institution, with the best and widest digital educational catalog, one hundred percent online and covering most areas of knowledge. We offer the largest selection of our own degrees and accredited online undergraduate and postgraduate degrees. In total, more than 14,000 university programs, in ten different languages, making us the largest educational institution in the world.

**World's No.1**  
The World's largest online university

#### The official online university of the NBA

TECH is the official online university of the NBA. Thanks to our agreement with the biggest league in basketball, we offer our students exclusive university programs, as well as a wide variety of educational resources focused on the business of the league and other areas of the sports industry. Each program is made up of a uniquely designed syllabus and features exceptional guest hosts: professionals with a distinguished sports background who will offer their expertise on the most relevant topics.

#### Leaders in employability

TECH has become the leading university in employability. Ninety-nine percent of its students obtain jobs in the academic field they have studied within one year of completing any of the university's programs. A similar number achieve immediate career enhancement. All this thanks to a study methodology that bases its effectiveness on the acquisition of practical skills, which are absolutely necessary for professional development.



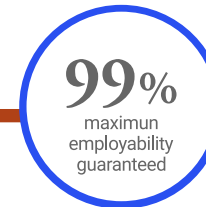
#### Google Premier Partner

The American technology giant has awarded TECH the Google Premier Partner badge. This award, which is only available to 3% of the world's companies, highlights the efficient, flexible and tailored experience that this university provides to students. The recognition not only accredits the maximum rigor, performance and investment in TECH's digital infrastructures, but also places this university as one of the world's leading technology companies.



#### The top-rated university by its students

Students have positioned TECH as the world's top-rated university on the main review websites, with a highest rating of 4.9 out of 5, obtained from more than 1,000 reviews. These results consolidate TECH as the benchmark university institution at an international level, reflecting the excellence and positive impact of its educational model.



# 03 Syllabus

The content of this academic qualification will include the acquisition of skills in wind measurement, analyzing methods to ensure the quality of the data necessary for project planning. It will also cover topics such as wind resource modeling, which will involve the analysis of spatial limitations and the integration of topographic variables to estimate energy production. Additionally, fundamental aspects of wind farm development and construction will be addressed, including project promotion, managing procedures, and identifying key stages to ensure the viability and sustainability of the installations.



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*This program in Wind Production Studies for Wind Farm Construction has been designed to provide engineers with comprehensive training in various critical aspects of the wind energy sector”*



## Module 1. Design of Wind Measurement Campaigns and Technologies

- 1.1. Wind Energy
  - 1.1.1. Wind Energy
  - 1.1.2. Origin of Wind and Its Patterns on Earth
  - 1.1.3. Effects Impacting Wind Regimes
- 1.2. Wind Resource Characterization
  - 1.2.1. Relationship Between Wind Speed and Wind Power
  - 1.2.2. Betz Limit and Tip Speed of Blades
  - 1.2.3. Evolution of Wind Turbine Size and Global Installed Capacity
  - 1.2.4. Magnitudes to Measure to Validate a Wind Turbine Model According to IEC-61400
- 1.3. Meteorological Stations Based on Masts (I). Guyed Masts and Self-Supporting Masts
  - 1.3.1. Guyed Masts
  - 1.3.2. Self-Supporting Masts
  - 1.3.3. Instrumentation
- 1.4. Meteorological Stations Based on Masts (II). Configuration, Operation, and Auxiliary Equipment
  - 1.4.1. Instrument Calibration
  - 1.4.2. Data Loggers
  - 1.4.3. Power Supply Equipment
  - 1.4.4. Data Download and Storage
- 1.5. Meteorological Stations Based on Doppler Effect
  - 1.5.1. LIDAR
  - 1.5.2. SODAR
  - 1.5.3. Advantages and Disadvantages Compared to Mast-Based Stations
- 1.6. Design of Pre-Construction Measurement Campaigns
  - 1.6.1. Preliminary Wind Farm Design Generation
  - 1.6.2. Measurement Point Location Design Based on MEASNET Recommendations
  - 1.6.3. Iterative Design Adjustment Based on Practical Limitations
- 1.7. Design of Power Curve Measurement Campaigns
  - 1.7.1. Essential Cases for Power Curve Measurement Campaigns
  - 1.7.2. Measurement Point Location Design Based on IEC-61400 Requirements
  - 1.7.3. Additional Requirements from Manufacturers
- 1.8. Specifics of Measurements for Offshore Projects
  - 1.8.1. Meteorological Stations and Their Platforms
  - 1.8.2. Power Supply Equipment
  - 1.8.3. Campaign Design



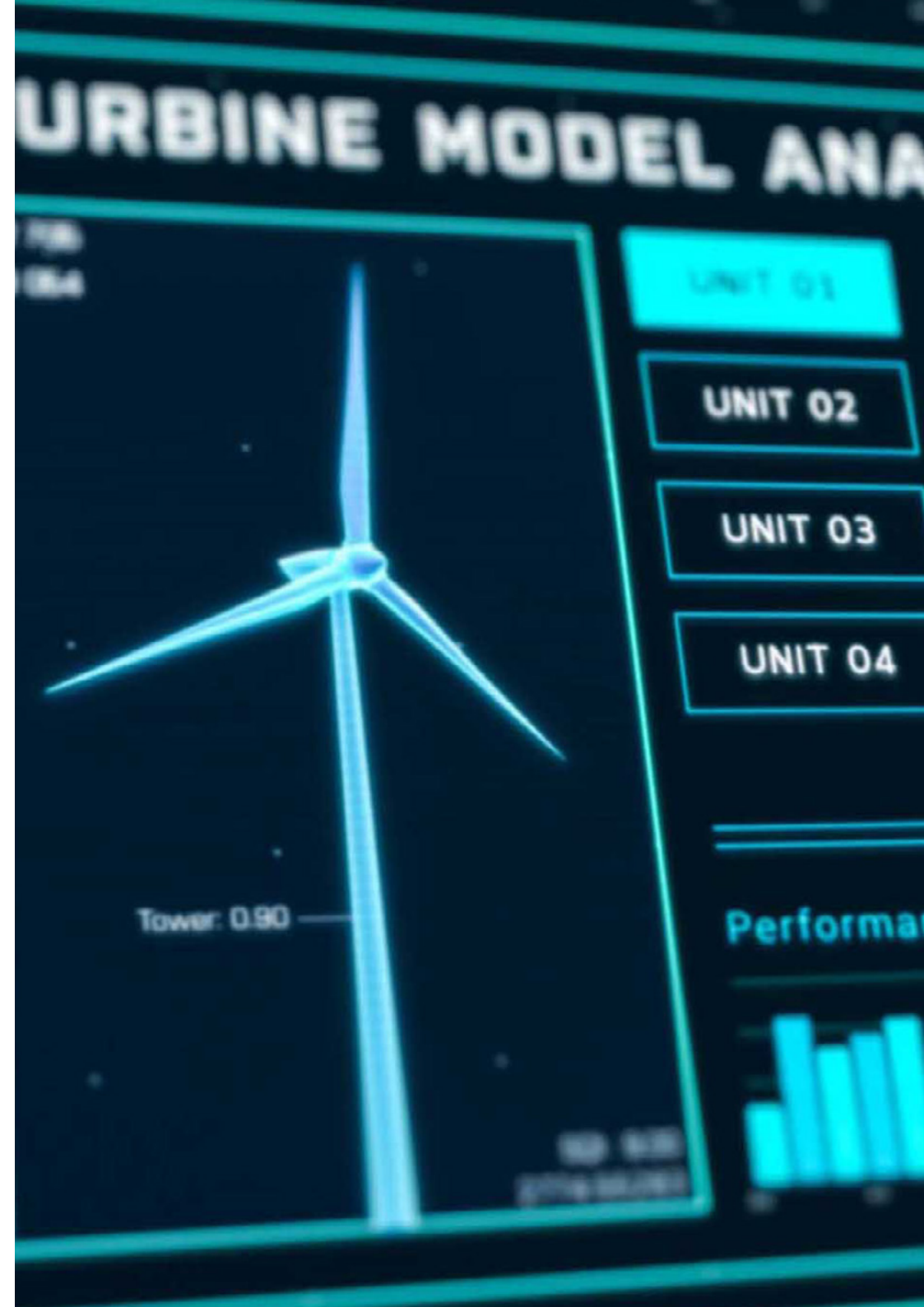


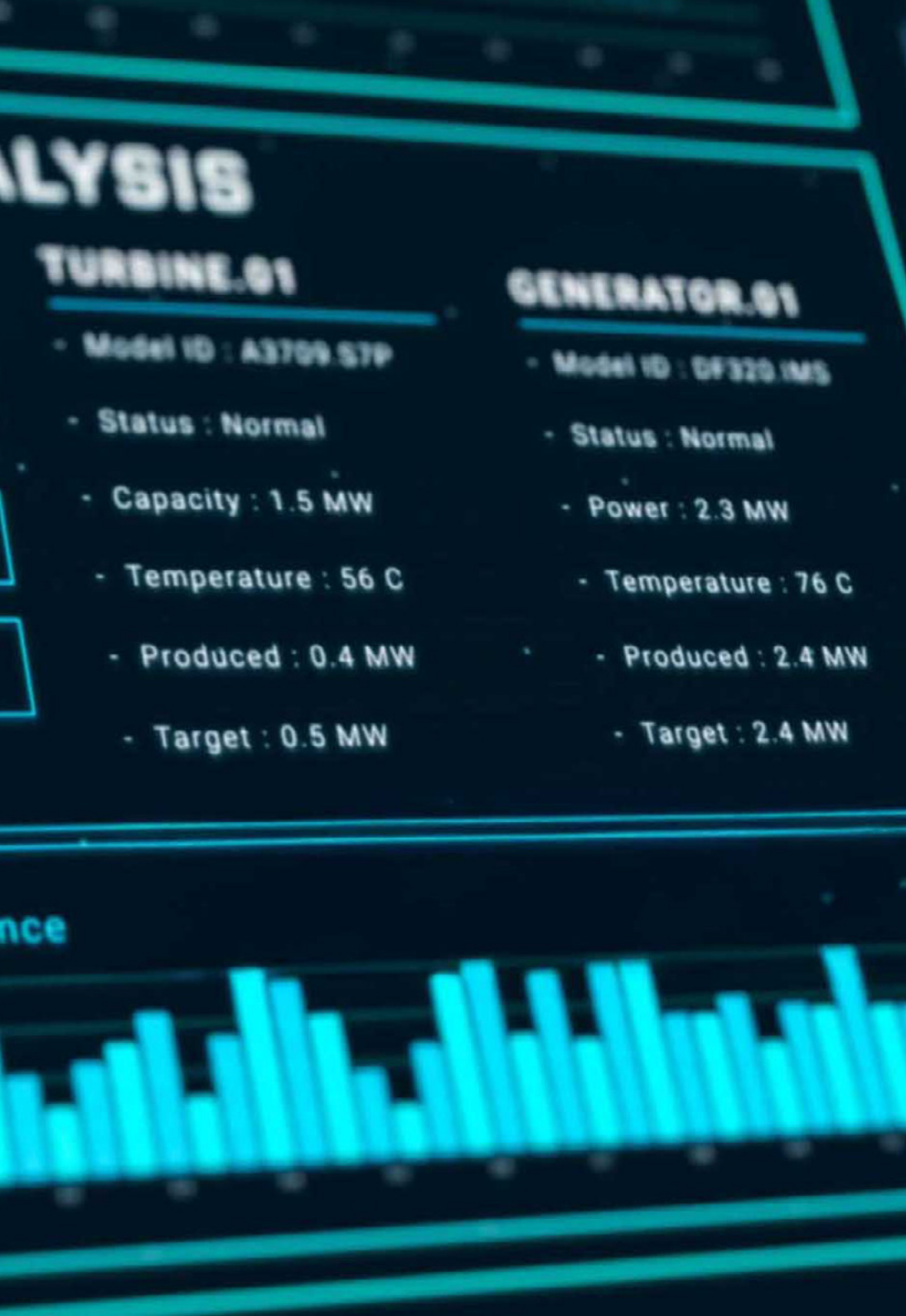
**Module 2. Wind Resource Modeling and Energy Production Studies**

- 2.1. Topographic Maps and Spatial Limitations in Onshore Wind Farms
  - 2.1.1. Orography
  - 2.1.2. Roughness and Obstacles
  - 2.1.3. Site Visit
  - 2.1.4. Spatial Limitations for Wind Turbine Placement
- 2.2. Topographic Maps and Spatial Limitations in Offshore Wind Farms
  - 2.2.1. Orography and Bathymetry
  - 2.2.2. Oceanographic Data
  - 2.2.3. Spatial Limitations for Wind Turbine Placement
- 2.3. Processing of Meteorological Station Measurements I: Data Filtering and Treatment
  - 2.3.1. Analysis of Measurement Integrity
  - 2.3.2. Data Filtering and Gap Filling
  - 2.3.3. Specifics of Doppler-Based Meteorological Stations
- 2.4. Processing of Meteorological Station Measurements II: Extrapolation and Wind Resource Calculations
  - 2.4.1. Vertical Profile
  - 2.4.2. Reference Data
  - 2.4.3. Long-Term Extrapolation
- 2.5. Wind Modeling I: Software Utilities
  - 2.5.1. Requirements
  - 2.5.2. Commercial Software for Simple Topographies
  - 2.5.3. Commercial Software for Complex Topographies
- 2.6. Wind Modeling II: Estimating Production of a Wind Farm
  - 2.6.1. Wind Conditions at Wind Turbine Locations I
    - 2.6.1.1. Vertical Profile and Air Density
  - 2.6.2. Wind Conditions at Wind Turbine Locations II
    - 2.6.2.1. Turbulence and Wind Flow Inclination
  - 2.6.3. Extreme Winds
- 2.7. Energy Production Estimation
  - 2.7.1. Wind Turbines: Power Curves and Other Characteristics
  - 2.7.2. Gross Production Estimation
  - 2.7.3. Wake Losses and Other Losses Calculations
  - 2.7.4. Net Production Estimation
- 2.8. Uncertainty Calculation in Energy Production Studies
  - 2.8.1. Measurements and Long-Term Extrapolation
  - 2.8.2. Wind Flow and Wake Modeling
  - 2.8.3. Power Curve and Operational Losses
  - 2.8.4. Exceedance Energy Levels
- 2.9. Other Software for Non-Wind Flow Modeling Purposes
  - 2.9.1. Processing of Meteorological Measurements
  - 2.9.2. Wind Turbine Placement Design
  - 2.9.3. Other Purposes
- 2.10. Wind Production Time Series
  - 2.10.1. Generation Methods
  - 2.10.2. Utilities
  - 2.10.3. Relevant Parameters and Statistics

### Module 3. Development and Construction of Wind Farms

- 3.1. Wind Farm Site Selection: A Complex and Multidisciplinary Decision
  - 3.1.1. Energy Resource
  - 3.1.2. Land Ownership
  - 3.1.3. Interconnection Capacity
- 3.2. Use of Wind Atlases for Wind Farm Site Selection
  - 3.2.1. *Global Wind Atlas*
  - 3.2.2. IDEA Wind Atlas
  - 3.2.3. Iberian Wind Map
- 3.3. Wind Resource for Project Development
  - 3.3.1. Wind Speed and Direction
  - 3.3.2. Vertical Profile and Temporal Variability
  - 3.3.3. Turbulence
- 3.4. Terrain Complexity
  - 3.4.1. Access Roads
  - 3.4.2. Geographic Surroundings
  - 3.4.3. Site Orography
- 3.5. Environmental Considerations in Wind Farm Development
  - 3.5.1. Environmental Impact Assessment (EIA)
  - 3.5.2. Protected Areas (APP) and Urban Planning (DUP)
  - 3.5.3. Environmental and Social Assessments (AAC and AE)
- 3.6. Social Considerations in Wind Farm Development
  - 3.6.1. Local Communities
  - 3.6.2. Positive Impacts
  - 3.6.3. Negative Impacts
- 3.7. Wind Farm Interconnection
  - 3.7.1. Step-Up Substation
  - 3.7.2. Interconnection Substation
  - 3.7.3. High Voltage Transmission Line (HVTL)





- 3.8. Administrative Procedures for Wind Farms
  - 3.8.1. Environmental Authorization
  - 3.8.2. Permits and Licenses
  - 3.8.3. Grid Connection
- 3.9. Technical-Economic Considerations in the Promotion and Development of Wind Farms
  - 3.9.1. Budget for Studies
  - 3.9.2. Budget for Administrative Procedures
  - 3.9.3. Total Budget
- 3.10. Scheduling and Planning for the Development and Promotion of Wind Farms
  - 3.10.1. Study Scheduling
  - 3.10.2. Administrative Procedure Scheduling
  - 3.10.3. Overall Timeline



*You will not only acquire theoretical knowledge but also focus on practical application in real-world situations, preparing you to face the current and future challenges of the wind industry”*

04

# Teaching Objectives

The objective of this program is to train engineers to gain a deep and practical understanding of the technical and strategic aspects involved in the development of wind projects. Thereby, they will be able to design and execute wind measurement campaigns to high-quality standards, as well as model wind resources and conduct energy production studies that consider spatial and topographic limitations. Additionally, they will be competent in managing all stages of wind farm development, from promotion to construction, identifying and prioritizing the necessary procedures to execute these projects.







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*This program aligns with the current energy market demands, where sustainability and innovation are key to success in the Renewable Energy sector. What are you waiting for to enroll?”*





### General Objectives

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- ♦ Establish the origin of wind and the history of wind turbines
- ♦ Analyze the types, components, advantages, and disadvantages of different meteorological stations
- ♦ Examine the different types of measurement campaigns
- ♦ Determine how to conduct a Wind Resource Study
- ♦ Identify the differences between various commercial options for modeling wind flow at a given location
- ♦ Establish the different categories of losses that should be considered when estimating wind farm production
- ♦ Define the stages of promotion and development, as well as their importance for the execution of wind farms
- ♦ Review the laws and international regulations that govern the processes, stages, and procedures involved in the promotion and development of a wind farm



*Engineers specializing in wind production will not only contribute to a greener future but will also enjoy a competitive edge in their professional careers”*





## Specific Objectives

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### Module 1. Design of Wind Measurement Campaigns and Technologies

- ♦ Determine how to record wind measurement data based on high-quality standards
- ♦ Analyze how to design onshore Wind Measurement campaigns in a way that makes the studies financially bankable

### Module 2. Wind Resource Modeling and Energy Production Studies

- ♦ Analyze spatial limitations to consider in the design of a Wind Farm and the type of topographic sources to integrate into the calculations
- ♦ Establish the differences between the various options for generating Wind Production time series

### Module 3. Development and Construction of Wind Farms

- ♦ Describe the main items involved in the promotion and development of a Wind Farm
- ♦ Differentiate the order of importance of the stages and procedures required for promotion and development



05

# Career Opportunities

Engineers will be able to work in companies specializing in the construction, installation, and operation of wind farms, holding key positions in the planning and execution of projects, as well as in optimizing wind resources. Additionally, they will have the opportunity to work in roles related to site evaluation, construction team management, and the analysis of the technical and economic feasibility of projects. The training acquired will also enable them to collaborate in environmental impact studies, research on new technologies, and the integration of Wind Energy into electrical grids.



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*The Wind Production Studies for Wind Farm Construction program will provide engineers with access to a wide range of career opportunities in the Renewable Energy sector”*

### Graduate Profile

Graduates will be highly trained professionals capable of leading and managing wind infrastructure construction projects. With solid technical preparation in the planning, design, and execution of wind farms, they will be able to conduct feasibility studies, evaluate wind resources, and optimize the performance of installations. Moreover, they will be well-versed in applicable environmental and safety regulations and prepared to coordinate multidisciplinary teams at every stage of a project, ensuring efficiency, sustainability, and profitability.

*Your profile will allow you to make strategic decisions based on technical and economic analysis, actively contributing to the energy transition toward renewable sources.*

- ♦ **Project Management:** Plan, coordinate, and manage wind projects from conception to execution, ensuring adherence to timelines, budgets, and quality standards
- ♦ **Multidisciplinary Teamwork:** Collaborate with professionals from various fields (Civil Engineering, Electrical Engineering, Environmental Engineering, etc.), optimizing interactions to address the challenges of the wind energy sector in an integrated and efficient manner
- ♦ **Innovation and Problem-Solving:** Identify opportunities for improvement, propose innovative solutions, and tackle complex technical and operational challenges in the development and maintenance of wind facilities
- ♦ **Communication and Leadership:** Communicate effectively in both technical presentations and negotiations with stakeholders, and lead teams in wind projects, facilitating decision-making and the implementation of strategies





After completing the program, you will be able to use your knowledge and skills in the following positions:

1. **Wind Farm Design Engineer:** Responsible for designing the infrastructure necessary for wind farm installation, ensuring that projects are efficient and viable both technically and economically.
2. **Wind Resource Analyst:** Specializes in the measurement and analysis of wind resources at various locations, determining the feasibility of installing wind farms based on wind quality and other environmental factors.
3. **Wind Farm Construction Engineer:** Responsible for the planning and execution of wind farm construction, overseeing the installation of turbines, electrical systems, and other infrastructures necessary for the operation of the farm.
4. **Wind Project Construction Supervisor:** Oversees the construction of wind farms, ensuring that activities are carried out according to plans and current regulations, while managing on-site resources.
5. **Wind Project Manager:** Manages the construction of wind farms, handling operational, technical, financial, and personnel aspects to ensure the successful completion of the project on time and within budget.
6. **Environmental Impact Specialist for Wind Projects:** Assesses and manages the environmental impacts of the construction and operation of wind farms, ensuring that projects comply with environmental regulations.
7. **Wind Systems Integration Engineer:** Responsible for integrating Wind Energy systems into the electrical grid, ensuring the efficient transmission of energy produced by the wind farm to distribution centers.
8. **Wind Feasibility Studies Consultant:** Provides technical advisory services to companies and governments on the feasibility of wind projects, analyzing resources, costs, risks, and benefits to ensure their correct implementation in various regions.

06

# Study Methodology

TECH is the world's first university to combine the **case study** methodology with **Relearning**, a 100% online learning system based on guided repetition.

This disruptive pedagogical strategy has been conceived to offer professionals the opportunity to update their knowledge and develop their skills in an intensive and rigorous way. A learning model that places students at the center of the educational process giving them the leading role, adapting to their needs and leaving aside more conventional methodologies.





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*TECH will prepare you to face new challenges in uncertain environments and achieve success in your career”*

### The student: the priority of all TECH programs

In TECH's study methodology, the student is the main protagonist.

The teaching tools of each program have been selected taking into account the demands of time, availability and academic rigor that, today, not only students demand but also the most competitive positions in the market.

With TECH's asynchronous educational model, it is students who choose the time they dedicate to study, how they decide to establish their routines, and all this from the comfort of the electronic device of their choice. The student will not have to participate in live classes, which in many cases they will not be able to attend. The learning activities will be done when it is convenient for them. They can always decide when and from where they want to study.

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*At TECH you will NOT have live classes  
(which you might not be able to attend)”*





### The most comprehensive study plans at the international level

TECH is distinguished by offering the most complete academic itineraries on the university scene. This comprehensiveness is achieved through the creation of syllabi that not only cover the essential knowledge, but also the most recent innovations in each area.

By being constantly up to date, these programs allow students to keep up with market changes and acquire the skills most valued by employers. In this way, those who complete their studies at TECH receive a comprehensive education that provides them with a notable competitive advantage to further their careers.

And what's more, they will be able to do so from any device, pc, tablet or smartphone.

“*TECH's model is asynchronous, so it allows you to study with your pc, tablet or your smartphone wherever you want, whenever you want and for as long as you want*”

## Case Studies and Case Method

The case method has been the learning system most used by the world's best business schools. Developed in 1912 so that law students would not only learn the law based on theoretical content, its function was also to present them with real complex situations. In this way, they could make informed decisions and value judgments about how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

With this teaching model, it is students themselves who build their professional competence through strategies such as Learning by Doing or Design Thinking, used by other renowned institutions such as Yale or Stanford.

This action-oriented method will be applied throughout the entire academic itinerary that the student undertakes with TECH. Students will be confronted with multiple real-life situations and will have to integrate knowledge, research, discuss and defend their ideas and decisions. All this with the premise of answering the question of how they would act when facing specific events of complexity in their daily work.



## Relearning Methodology

At TECH, case studies are enhanced with the best 100% online teaching method: Relearning.

This method breaks with traditional teaching techniques to put the student at the center of the equation, providing the best content in different formats. In this way, it manages to review and reiterate the key concepts of each subject and learn to apply them in a real context.

In the same line, and according to multiple scientific researches, reiteration is the best way to learn. For this reason, TECH offers between 8 and 16 repetitions of each key concept within the same lesson, presented in a different way, with the objective of ensuring that the knowledge is completely consolidated during the study process.

*Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.*



## A 100% online Virtual Campus with the best teaching resources

In order to apply its methodology effectively, TECH focuses on providing graduates with teaching materials in different formats: texts, interactive videos, illustrations and knowledge maps, among others. All of them are designed by qualified teachers who focus their work on combining real cases with the resolution of complex situations through simulation, the study of contexts applied to each professional career and learning based on repetition, through audios, presentations, animations, images, etc.

The latest scientific evidence in the field of Neuroscience points to the importance of taking into account the place and context where the content is accessed before starting a new learning process. Being able to adjust these variables in a personalized way helps people to remember and store knowledge in the hippocampus to retain it in the long term. This is a model called Neurocognitive context-dependent e-learning that is consciously applied in this university qualification.

In order to facilitate tutor-student contact as much as possible, you will have a wide range of communication possibilities, both in real time and delayed (internal messaging, telephone answering service, email contact with the technical secretary, chat and videoconferences).

Likewise, this very complete Virtual Campus will allow TECH students to organize their study schedules according to their personal availability or work obligations. In this way, they will have global control of the academic content and teaching tools, based on their fast-paced professional update.



*The online study mode of this program will allow you to organize your time and learning pace, adapting it to your schedule”*

### The effectiveness of the method is justified by four fundamental achievements:

1. Students who follow this method not only achieve the assimilation of concepts, but also a development of their mental capacity, through exercises that assess real situations and the application of knowledge.
2. Learning is solidly translated into practical skills that allow the student to better integrate into the real world.
3. Ideas and concepts are understood more efficiently, given that the example situations are based on real-life.
4. Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



### The university methodology top-rated by its students

The results of this innovative teaching model can be seen in the overall satisfaction levels of TECH graduates.

The students' assessment of the teaching quality, the quality of the materials, the structure of the program and its objectives is excellent. Not surprisingly, the institution became the top-rated university by its students according to the global score index, obtaining a 4.9 out of 5.

*Access the study contents from any device with an Internet connection (computer, tablet, smartphone) thanks to the fact that TECH is at the forefront of technology and teaching.*

*You will be able to learn with the advantages that come with having access to simulated learning environments and the learning by observation approach, that is, Learning from an expert.*



As such, the best educational materials, thoroughly prepared, will be available in this program:



#### 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.



#### Practicing Skills and Abilities

You will carry out activities to develop specific competencies and skills in each thematic field. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop within the framework of the globalization we live in.



#### 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.

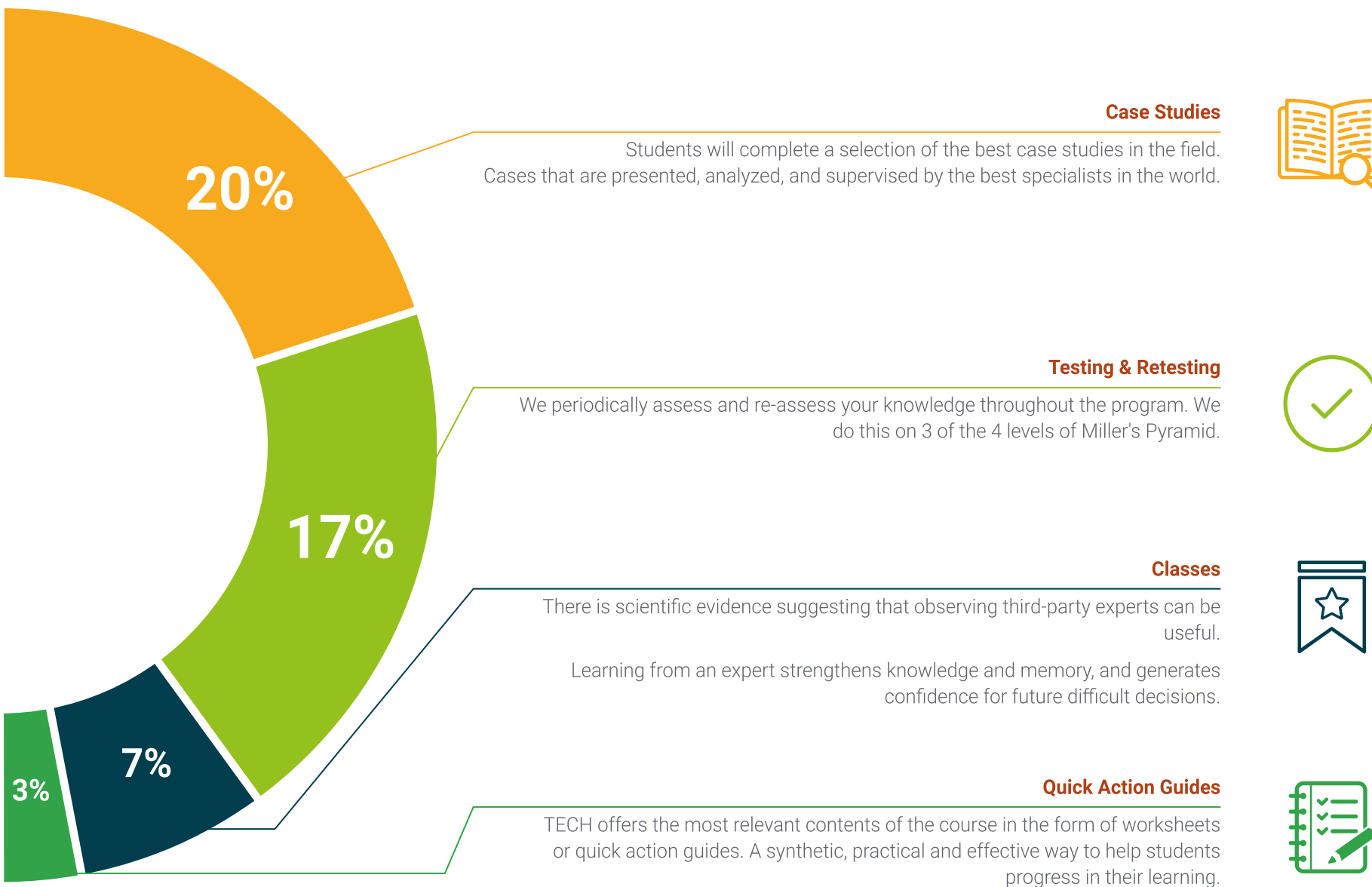
This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



#### Additional Reading

Recent articles, consensus documents, international guides... In our virtual library you will have access to everything you need to complete your education.







07

# Teaching Staff

The teachers are highly qualified professionals with a extensive of experience in the field of Wind Energy and Renewable Energy In fact, they have a strong academic and practical background, having worked on large-scale projects globally, which will allow them to provide a realistic and up-to-date perspective on the challenges and opportunities in the sector. Furthermore, their training will combine theory with real-world case studies, ensuring that graduates develop the skills needed to face the challenges of wind farm construction and operation in a constantly evolving environment.







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*The teachers are committed to teaching and knowledge transfer, using innovative methodologies that will encourage graduates' participation and application in practical situations”*

## Management



### Mr. Melero Camarero, Jorge

- ♦ Deputy Director of Construction at Eney, Vienna
- ♦ Country Manager for Spain at Ezzing Solar
- ♦ General Manager of Environmental and Social Consulting at Natura Medioambiente
- ♦ Deputy Director of the Renewable Energy Division at Alatec Ingenieros Consultores y Arquitectos
- ♦ Director of the Renewable Energy Department at Gestionna Soluciones Energéticas
- ♦ Renewable Energy Project Director at ABO Wind Spain
- ♦ Master's Degree in Business Administration (MBA)
- ♦ Master's Degree in Renewable Energy Consulting
- ♦ Bachelor's Degree in Industrial Engineering from the Polytechnic University of Valencia



## Teachers

### Ms. López Urroz, Paola

- ♦ Wind Resource Analyst at Capital Energy
- ♦ Participation in the European AIRE Project (Advanced Study of the Atmospheric Flow Integrating Real Climate Conditions)
- ♦ Master's Degree in Meteorology and Geophysics from the Complutense University of Madrid
- ♦ Bachelor's Degree in Physics from the Complutense University of Madrid

### Mr. López Ramos, Alejandro

- ♦ Site Construction Director at Ferrovial Construcción
- ♦ Construction Leader at Anabática Renovables
- ♦ Project Director at SEAL
- ♦ Project Director at Artech
- ♦ Country Manager Mexico at Ventus Energía
- ♦ Director of Engineering and Construction at Acciona Energía
- ♦ Site Coordinator (Site Manager) at Enel Green Power
- ♦ Quality, Environment, and Occupational Safety Coordinator at Abengoa
- ♦ Specialization in Construction from the University of Veracruz
- ♦ Bachelor's Degree in Civil Engineering from the University of Veracruz



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08

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## Wind Production Studies for Wind Farm Construction