Structuralia
Engineering eLearning

UNIVERSIDAD
NEBRIJA

Master´s Degree in Contract Management and Large International Projects + 60 ECTS Credits





Choose to learn at school
leader in online training

INDICE

1 | About **Structuralia**

2 | **Alliance**

3 | **Rankings**

4 | By **EDUCA EDTECH Group**

5 | LXP **Methodology**

6 | **Why choosing** Structuralia?

7 | Trainning **program**

8 | **List of Subjects**

9 | **Contact**

ABOUT STRUCTURALIA

Structuralia is an online educational institution offering highly specialized postgraduate programs in engineering, infrastructure, construction, energy, building, digital transformation, and new technologies. Since our founding in 2001, we have been committed to providing quality training for the professional development of **engineers, architects, and STEM professionals.**

We provide a platform where you can acquire new skills and enhance your knowledge without being limited by time or location. Our methodology ensures an engaging, interactive, and **supportive educational experience,** equipping our students to meet future challenges in their respective fields of work.

More than **20** years of experience

Over **200k** student have learnt with us

More than **90** nationalities among our students



Specialize to
advance your career

STRUCTURALIA ALLIANCE AND NEBRIJA UNIVERSITY

Structuralia and the University of Nebrija successfully consolidate a strategic partnership. Thus, the collaboration between Structuralia and the University of Nebrija promotes a collaborative, innovative and accessible approach towards learning that is adapted to the individual needs of students.

The two institutions prioritize practical and flexible learning, adapted to the demands of today's working world, and which promotes the personal and professional development of each student. The purpose is to acquire new knowledge in a dynamic and didactic way, which facilitates its retention and contributes to developing the necessary skills to be ready to take part in a society in constant and rapid transformation.

Structuralia and the University of Nebrija have set as their main objective the democratization of education to bring it to even the most remote areas and taking advantage of the latest technological innovations. In addition, they have a team of highly specialized teachers and learning platforms that incorporate cutting-edge educational technology to provide academic support throughout the entire educational process.



STRUCTURALIA RANKINGS

Structuralia has achieved the recognition of different national and international rankings, thanks to its commitment to **democratize education** and bet on educational innovation to **achieve excellence.**

For the elaboration of these rankings, **indicators** such as online and offline reputation, the quality of the institution, social responsibility, educational innovation or the profile of professionals are used.















QS, seal of academic excellence

Structuralia: 5 stars in online education

BY EDUCA EDTECH

Structuralia is a brand endorsed by **EDUCA EDTECH Group,** which is composed of a group of experienced and recognized **educational institutions of online training.** All the entities that make it up share the mission of **democratizing access to education** and are committed to knowledge transfer, technological development and research.

EDUCA EDTECH Group

ONLINE EDUCATION

EUROINNOVA INTERNATIONAL ONLINE EDUCATION

inesem business school

INEAF BUSINESS SCHOOL

red educa.net

inesalud

EDU SPORT

EDUCA business school

ESIBE ESCUELA IBEROAMERICANA DE POSTGRADO

Educa.Pro

ceupe European Business School

UDAVINCI

CAPMAN testing solutions

Structuralia Engineering eLearning

UNIMIAMI International University of Miami

Educa PHAROS

LXP METHODOLOGY

The **EDUCA LXP** methodology enhances the learning experience by incorporating AI into e-learning processes. It utilizes highly customized predictive models based on the analysis of student interactions with their virtual environments.

EDUCA LXP is the outcome of **Research Results Transfer** from multiple interdisciplinary R&D+i projects, involving international universities dedicated to knowledge transfer, technological development and research.



1. Flexibility

100% online and flexible learning, allowing students to study where, when and how they want.



2. Accessibility

We believe in making education accessible to all, working to ensure that everyone has the opportunity to continue their learning journey.



3. Personalization

We offer customized learning paths tailored to each student's unique needs and preferences.



4. Accompaniment / Academic mentoring

Guidance and support. Our team of expert teachers provides academic guidance, advocating for educational quality and adapting to the needs of the ever-changing labor market.



5. Innovation

We are at the forefront of technological development, constantly evolving with AI-driven Learning Experience Platforms.



6. Educational excellence

Our didactic approach focuses on competence based learning, promoting practical and meaningful learning experiences to ensure professional development.



Programs

Our own university and official programs

WHY CHOOSIG STRUCTURALIA

1. Our Experience

- ✓ More than **20 years of experience**.
- ✓ More than **200.000 students** have already learnt in our virtual classrooms.
- ✓ More than **90 nationalities** among our student body.

2. Our Team

Currently, Structuralia has a team of **more than 550 professionals working in the STEM (Science, Technology, Engineering and Mathematics)**. Our staff is solidly framed in a structure that facilitates the highest quality in the attention to students.

3. Our Methodology



100% ONLINE

Study at your convenience, wherever you are. Access our virtual campus from any device.



LEARNING

We strive for a deep integration of new knowledge into your cognitive framework.



TEAM TEACHERS

Structuralia has a team of professionals to elevate your study experience with topquality education.



NOT BE ALONE

Receive continuous guidance from our tutoring team throughout your student journey.

4. AENOR Quality

- ✓ We are Collaboration Agency Nº99000000169 authorized by the Ministry of Employment and Social Security.
- ✓ Annual external audits are carried out to ensure the highest quality by AENOR.
- ✓ Our teaching processes are certified by AENOR under ISO 9001.

Master´s Degree in Contract Management and Large International Projects + 60 ECTS Credits



LENGHT
1500 horas



MODE
ONLINE



ASSISTANCE
PERSONALIZED



CREDIT
60 ECTS

Certificacion

Master´s Degree in Contract Management and Large International Projects with 60 ECTS Credits awarded by the Antonio de Nebrija University. Teaching not leading to an officially accredited qualification



Description

The Master in Contract Management and Large International Projects is your gateway to excelling in a field experiencing unprecedented growth. As global industries expand, the demand for skilled professionals who can navigate the complexities of international contracts and large-scale projects has never been higher. This master's programme offers a comprehensive curriculum designed to equip you with essential skills in project management, procurement, risk assessment, and financial planning. You'll delve into the intricacies of turnkey projects and EPC contracts, gaining insights into stakeholder management and advanced negotiation techniques. Our focus on standardised international contracts, such as FIDIC models, ensures you are well-prepared to handle the legal and financial risks inherent in major infrastructure projects. By mastering these areas, you position yourself at the forefront of a competitive job market, ready to lead and innovate in a rapidly evolving sector.

Goals

- To master project management techniques in large
- scale international projects.
- To implement effective communication and document management strategies.
- To manage procurement processes and stakeholder relations in EPC projects.
- To integrate health, safety, and environmental standards in project management.
- To apply agile methodologies for managing scope and planning under uncertainty.
- To interpret and apply FIDIC models in international construction contracts.
- To evaluate and mitigate financial and legal risks in global project management.

What does it prepare you for?

The Master in Contract Management and Large International Projects is tailored for professionals and graduates in the field seeking to deepen their expertise in project management, particularly in areas such as procurement, risk management, and finance within international settings. This programme is ideal for those looking to enhance their ability to manage complex, global projects effectively.

Who is the target audience?

The Master in Contract Management and Large International Projects equips you to effectively manage complex international projects. You'll develop skills in project planning, communication, and procurement, while mastering contract negotiation and risk management. You will be prepared to handle turnkey projects, understand FIDIC models, and manage financial and legal risks, ensuring successful project delivery amidst uncertainty.

Job opportunities

- Contract Manager for large-scale international projects - Procurement and Supply Chain Specialist - Project Manager in construction and infrastructure - Risk Management Consultant for EPC projects - Legal Advisor specialising in international contracts - Financial Analyst for project finance - Quality and HSE Manager in global ventures - Agile Project Planner for international initiatives

List of subjects

MODULE 1. PROJECT MANAGEMENT AND CONTROL

UNIT 1. LAUNCH PLANNING

1. Project launch
2. Project management plan (I): project lifecycle
3. Project management plan (II): planning
4. Project management plan (III): project organization chart
5. Lessons learned

UNIT 2. COMMUNICATIONS AND DOCUMENT MANAGEMENT

1. Communication management (I): general aspects of communication
2. Communication management (II): global communication management process
3. Communication management (III): specific communication management plan
4. Document management and control (I): specific document management plan
5. Document management and control (II): document management tool

UNIT 3. PROCUREMENT MANAGEMENT

1. Procurement management
2. Procurement management and subcontracts
3. Expediting management
4. Quality control (QC)
5. Procurement logistics

UNIT 4. HHRR, QUALITY, HEALTH, SAFETY, AND ENVIRONMENT

1. HHRR management (I): specific HHRR plan
2. HHRR management (II): work team management
3. Quality management
4. Health, safety, and environment (HSE) management (I): definition
5. Health, safety, and environment (HSE) management (II): standards

MODULE 2. TURNKEY PROJECTS (EPC)

UNIT 1. PROJECT FUNDAMENTALS

1. What is a project?
2. Types of projects
3. EPC projects (engineering, procurement, construction)
4. EPC projects in complex sectors
5. Lifecycle of a project

UNIT 2. STAKEHOLDERS OF A TURNKEY PROJECT (EPC) (I)

1. Project Management
2. Main Stakeholders in a Turnkey Project
3. Organization of a Project
4. The Project Management Team: The Project Director (I)
5. The Project Management Team: The Project Director (II)

UNIT 3. STAKEHOLDERS OF A TURNKEY PROJECT (EPC) (II)

1. The project management team: project operations manager, project manager and area
2. manager
3. The project management team: project engineers, material manager, interface
4. manager
5. The project management team: engineering manager and project assistants
6. Conclusions and practical example of an organization chart
7. Business management

UNIT 4. STAKEHOLDERS OF A TURNKEY PROJECT (EPC) (III)

1. Contract manager, administration manager and project control manager
2. Risk manager
3. Procurement management
4. Quality control, quality assurance management and HSE
5. Construction management

MODULO 3. ADVANCED PROJECT MANAGEMENT

UNIT 1. SCOPE AND CONTRACT MANAGEMENT

1. Scope management (I)
2. Scope management (II)
3. Scope management (III)
4. Contract management (I)
5. Contract management (II)

UNIT 2. NEGOTIATION AND COST CONTROL

1. Negotiation (I)
2. Negotiation (II)
3. Negotiation (III)
4. Cost control

UNIT 3. COST ESTIMATION AND PLANNING

1. Cost estimation (I)
2. Cost estimation (II)
3. Cost estimation (III)
4. Planning (I)
5. Planning (II)
6. Planning (III)

UNIT 4. RISK MANAGEMENT

1. Global setting
2. Risk management (I)
3. Risk management (II)
4. Risk management (III)
5. Earned value method

MODULO 4. LAUNCH AND GLOBAL PLANNING OF AGILE PROJECTS

UNIT 1. PROJECT VISIÓN

1. Business case. Project justification
2. Customer-centric approach. Declaration of inter-dependence
3. Project vision
4. Knowledge management areas according to the agile approach
5. The 'personas' technique

UNIT 2. AGILE SCOPE MANAGEMENT

1. Prioritization of requirements based on business value
2. Refining priorities
3. User stories
4. Splitting requirements
5. Agile management of requirements

UNIT 3. AGILE ESTIMATION

1. Done” and “ready”
2. Common mistakes
3. Adaptive planning
4. Agile estimation of requirements
5. Velocity, timebox, and establishing the process

UNIT 4. PLANNING WITH UNCERTAINTY

1. Roadmap
2. Adjusting the roadmap
3. Limitation of work in progress
4. Validity of the agile approach
5. Change management

MODULE 5. STANDARDIZED INTERNATIONAL CONTRACTS FOR CONSTRUCTION AND INFRASTRUCTURE PROJECTS: FIDIC MODELS

UNIT 1. INTRODUCTION AND MAIN STANDARDIZATIONS

1. Standardization
2. FIDIC
3. FIDIC Contracts

4. New Engineering Contract (NEC)
5. Other standardizers

UNIT 2. STRUCTURE AND CONTENTS, GENERAL PROVISIONS AND ACTORS

1. Structure and content
2. General provisions
3. Employer and engineer
4. Contractor I
5. Contractor II

UNIT 3. EXECUTION, SCOPE, VALUATION AND PRICE

1. Subcontracting, designs and means
2. Timescales, testing and acceptance
3. Defects and testing after completion
4. Measurement, Valuation and Variations
5. Contract price and payment I

UNIT 4. PRICING, COMPLETION, TERMINATION AND CLAIMS

1. Contract Price and Payment II
2. Completion, suspension, and care
3. Exceptional Events and Insurance
4. Claims management
5. Dispute management

MODULO 6. EPC CONTRACT MANAGEMENT

UNIT 1. CONTRACTING FUNDAMENTALS

1. What is a contract?
2. Contract management terminology
3. The concept of contract management
4. International arbitration
5. International standard construction contracts

UNIT 2. THE LAW AND ITS INTERPRETATION

1. What is law?
2. Evidence
3. Grounds for invalidity of a contract
4. Termination of a contract in english law
5. Professional liability

UNIT 3. SOCIETY OF CONSTRUCTION LAW (I)

1. Society of construction law
2. Guidance part a: concepts of delay, disruption, and acceleration
3. Guidance part b: guidance on key principles (I)

4. Guidance part b: guidance on key principles (II)
5. Guidance part b: guidance on key principles (III)
6. Guidance part b: guidance on key principles (IV)

UNIT 4. SOCIETY OF CONSTRUCTION LAW (II)

1. Introduction to smart contracts
2. Most common uses of smart contracts (I)
3. Most common uses of smart contracts (II)
4. The great paradox of smart contracts

MODULE 7. FINANCIAL AND LEGAL RISK MANAGEMENT IN INTERNATIONAL PROJECTS

UNIT 1. THE INTERNATIONAL ECONOMY IN THE 21ST CENTURY

1. Globalization and international trade
2. Export activity
3. Imports
4. Fair trade
5. Relevant statistical sources and international agencies supporting international trade

UNIT 2. MEANS OF PAYMENT

1. Introduction and classification of means of payment
2. Conventional and modern means of payment
3. Documentary means of payment (I)
4. Documentary means of payment (II): Documentary credit
5. Syndicated loans

UNIT 3. RISKS IN INTERNATIONAL TRANSACTIONS AND THEIR MANAGEMENT

1. Basic risks
2. Other risks in international trade
3. Hedging risks in international trade (I)
4. Coverage of risks in international trade (II)
5. Main regulations applicable to international trade and international conflict resolution.

UNIT 4. COMPANY FINANCING IN INTERNATIONAL OPERATIONS AND FOREIGN INVESTMENT

1. International financial markets
2. Foreign investment
3. Financing international investment
4. Risks associated with foreign investment
5. New forms of financing based on Blockchain technology

MODULE 8. FINANCE PROJECT MANAGEMENT

UNIT 1. FINANCIAL PROJECTIONS AND PROJECT FINANCE

1. Time value of money

2. Investment appraisal methods
3. Creation of financial projection
4. Quality of financial projections and terminal value
5. Project finance sources
6. Cost of capital cost and level of project debt
7. Evaluation of projects with uncertain results

UNIT 2. PROJECT FINANCE

1. Introduction to the project finance model
2. Project risk analysis
3. Project bankability
4. Entities involved in the financing of a project
5. Ratios and management of project financing

UNIT 3. INTERNATIONAL PROJECTS

1. Development of financing for international projects
2. Country risk management
3. Finance sources for international projects

UNIT 4. SERVICE PROJECTS

1. Financial management of service projects
2. Identification of costs in service projects
3. Allocation of costs to services
4. Establishment of the economic budget for the service
5. Economic follow-up and closure of the service

MODULE 9. MASTER´S FINAL PROJECT

Did you find this information interesting?

If you still have questions, our academic advising team will be happy to answer them.

Ask us about our training method, our teachers, scholarships or even just get to know us.

Request information without commitment.

Find us here!

info@structuralia.com

www.structuralia.com

Follow us to stay updated!

España

inglaterra



Structuralia
Engineering eLearning



By
EDUCA EDTECH
Group