Structuralia
Engineering eLearning

UNIVERSIDAD
NEBRIJA

Master´s Degree in Agile Methodologies and Project Management + 60 ECTS Credits





Choose to learn at school
leader in online training

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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 Agile Methodologies and Project Management + 60 ECTS Credits



LENGHT
1500 horas



MODE
ONLINE



ASSISTANCE
PERSONALIZED



CREDIT
60 ECTS

Certificacion

Master´s Degree in Agile Methodologies and Project Management with 60 ECTS Credits awarded by the Antonio de Nebrija University. Teaching not leading to an officially accredited qualification



Description

This master's degree is intended to provide the necessary knowledge about project management, regardless of the project's size, from both the traditional and the agile perspectives, of which the latter is the "de facto" approach in the context of digital transformation. This program will explain the differences between the traditional and the agile approach, as well as their response mechanisms in highly uncertain and changing contexts.

Goals

- Learn about the traditional project planning and control approach
- Learn about the agile management approach and identify the differences with the traditional approach
- Learn the most widely used project and team management methodologies
- Understand the relationship between digital transformation and agile management, and why the latter is suitable for the digital transformation context.
- Learn the existing practices associated with both traditional and agile project management • Learn the Design Thinking method and its integration with Lean y Agile methodologies
- Identify fields of application of Agile methodologies in knowledge management, construction, technology and data management projects, among others

What does it prepare you for?

This master’s degree is intended for current and/or future project management professionals, as well as for those involved in project teams and service management, who are interested in adopting specialized techniques to carry out estimations, planning, task management, costs, and team performance control, etc. In addition, the knowledge acquired in this program can be used to pursue the PMP or ACP certifications.

Who is the target audience?

Aspects such as the project management cycle, the most widely used agile methodologies (e.g., Design thinking), the importance of data, and their influence in project management will be addressed. This master’s degree aims to equip students with a set of practices, techniques, and tools, along with examples and advice as to how to apply the acquired knowledge in day-to-day project, change and people management.

Job opportunities

- Project manager - Department director - Agile coach - Lead facilitator - Agile expert - Agile methodologies and digital transformation consultant

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. 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

MODULE 3. 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 4. QUALITY MANAGEMENT. QUALITY ASSURANCE

UNIT 1. QUALITY PRINCIPLES

1. Introduction.
2. Quality policy
3. Context analysis development.
4. Processes and procedures
5. Risk identification

UNIT 2. QUALITY MANAGEMENT SYSTEM

1. Responsibility definition and objectives
2. Plans and program definition
3. HHRR management
4. Material resource management
5. External resource management (Suppliers)
6. External resource management (Procurement)

UNIT 3. QUALITY-RELATED ACTIVITIES

1. Information management.
2. Communication management
3. Design, product and service planning
4. Design, product and service control

UNIT 4. QUALITY MONITORING AND MEASUREMENT

1. Nonconformity management and corrective measures
2. Internal control mechanisms: Reporting
3. Control mechanisms: Auditing
4. Management review
5. External certification

MODULE 5. WHY AGILE? AGILE VS CLASSIC APPROACH. AGILE METHODOLOGIES

UNIT 1. WHY AGILE? AGILE VS. TRADITIONAL

1. Context
2. Myths and realities: why agile?
3. Agile approach
4. Why should we adopt agile?
5. Agile vs. traditional

UNIT 2. THE AGILE APPROACH CHARACTERISTICS

1. Agile principles and values
2. Disadvantages of the traditional approach
3. The “traditional” management approach
4. The “agile” management approach
5. Agile work process for projects

UNIT 3. AGILE METHODOLOGIES: SCRUM, XP AND OTHER METHODOLOGIES

1. Framework of methodologies
2. FDD, DSDM and Lean
3. Scrum
4. XP methodology
5. “5 S” methodology

UNIT 4. AGILE METHODOLOGIES: KANBAN

1. The definition of Kanban
2. Examples of the task boards
3. Designing the Kanban board
4. Using the Kanban inside the iteration
5. Sinergy of methodologies

MODULE 6. 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 7. ITERATIVE AND INCREMENTAL EXECUTION AND DELIVERY

UNIT 1. DEFINITION OF THE AGILE PROJECT

1. Release plan
2. Use of the release plan
3. Iteration zero and Spikes
4. Preparing the iteration
5. Iteration planning

UNIT 2. SHORT TERM PLANNING

1. Detailing the iteration content
2. Deadline, cost and people
3. Iteration. Implementation and closing
4. Agile engineering practices
5. Other ways of estimating and planning

UNIT 3. MONITORING AND REPORTING

1. Earned Value traditional method
2. Earned value in lean construction projects
3. Agile earned value
4. Monitoring the team
5. High performance teams

UNIT 4. RELEASE AND INFORMATION RADIATORS

1. Monitoring the work
2. Demo or review meeting
3. Retrospective meeting
4. Information radiators
5. Project closure

MODULE 8. DESIGN THINKING

UNIT 1. DESIGN THINKING

1. Why design thinking arises: empathy and closeness with the customer or user
2. What is Design Thinking?
3. Understanding Design Thinking
4. Overview of the Design Thinking process

5. Methods for identifying the user's needs

UNIT 2. DESIGN THINKING

1. Step 1: Empathize with the users
2. Step 2: Define the problem
3. Step 3: Ideate
4. Step 4: Prototyping
5. Step 5: Test

UNIT 3. DIGGING DEEPER. HOW DOES GOOGLE DO IT?

1. Detailing the Design Thinking approach
2. Agile, Lean and Design Thinking for product development
3. Fulfilling objectives
4. How does Google do it?
5. Stages of Google Design Sprint

UNIT 4. OTHER STREAMLINING TOOLS

1. Analysis of the agile process
2. Failure modes
3. Success modes
4. Risk monitoring
5. Agile contracts

MODULE 9. AGILE APPROACH AND DIGITAL TRANSFORMATION

UNIT 1. THE MANAGEMENT APPROACH AND DIGITAL TRANSFORMATION

1. The management approach according to digital transformation
2. Data 2.0
3. Data democratization
4. Democratization of technology
5. Agile data management

UNIT 2. AGILE DATA. DATA DRIVEN COMPANIES

1. Data Driven Companies
2. Agile Data
3. Data projects and agile approach
4. Agile Data delivery
5. Agile Data Infrastructure

UNIT 3. AGILE DIGITALIZATION

1. Present and future: digitalization and the agile approach
2. Datification as a pillar of digital transformation
3. Other applications of agile digitalization
4. Digital transformation strategy

5. Agile even related to the UX; mobile first

UNIT 4. SOFT SKILLS NEEDED FOR AGILISM AND DIGITAL TRANSFORMATION

1. Soft skills (I)
2. Soft skills (II)
3. Soft skills (III)
4. Soft skills (IV)
5. Agile certifications

MODULE 10. MFP. MASTER´S DEGREE IN AGILE METHODOLOGIES AND PROJECT MANAGEMENT

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.

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www.structuralia.com

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