Structuralia
Engineering eLearning

UNIVERSIDAD
NEBRIJA

Master´s Degree in Agile Methodologies and Digital Transformation + 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 Digital Transformation + 60 ECTS Credits



LENGHT
1500 horas



MODE
ONLINE



ASSISTANCE
PERSONALIZED



CREDIT
60 ECTS

Certificacion

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



Description

Pursuing this Master's degree will provide students with knowledge and skills for effective and efficient management in today's context of digital transformation. This program explores the characteristics and differences between agile and traditional management methodologies, and the advantages of the agile approach in changing scenarios. In addition, agile methodologies such as Design Thinking, and Lean will be deeply analyzed and how technological innovations apply agile principles. This program will enable the student to build solid practices, techniques, and tools they can apply in day-to-day problems in which managing change, service, projects, and teams is critical for success.

Goals

- Learn the Agile Management Approach, and appreciate its differences with respect to the classic or traditional management approach
- Learn the most common methodologies for agile project, services and work team management
- Understand the relationship between digital transformation and the agile approach, and why the agile approach is suitable for this context
- Learn the available practices for Agile Project Management
- Understand the concept and application of the lean approach
- Learn the Design Thinking working method, and its integration in lean and agile approaches
- Identify fields of application for the agile management approach such as knowledge projects, construction, technology, data projects, etc.

What does it prepare you for?

This program is aimed at: Professionals who currently work, or intend to work as project managers, or wish to participate in project teams, Heads of service and generally responsible for teams who wish to adopt all estimating, planning, work assignment, cost control, dependencies, team and project performance techniques.

Who is the target audience?

This program also seeks to enable students to obtain official certifications such as the Agile Certified Practitioner certificate

Job opportunities

- Project Manager - Service Manager - Head of Department - Agile Coach - Lead Facilitator - Agile Expert - Consultant in Agile Methodologies and Digital Transformation

List of subjects

MODULE 1. 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 2. LAUNCH AND GLOBAL PLANNING OF AGILE PROJECTS

MODULE 3. ITERATIVE AND INCREMENTAL EXECUTION AND DELIVERY

MODULE 4. AGILE SERVICE MANAGEMENT

UNIT 1. SERVICE MANAGEMENT DIMENSIONS

1. Service management in the digital transformation context
2. Foundations of service management
3. Dimensions of service management
4. Information and technology; partners and suppliers

5. Value chains, processes, and external factors

UNIT 2. AGILE PRINCIPLES FOR SERVICE MANAGEMENT

1. Approach to agile service management
2. Agile principles of service management (I)
3. Agile principles for service management (II)
4. Agile principles for service management (III)
5. Agile principles for service management (IV)

UNIT 3. SERVICE VALUE

1. Service value
2. Service value system
3. Service value chain
4. Activities of the service value chain
5. Improvement

UNIT 4. AGILE PRACTICES FOR SERVICE MANAGEMENT

1. Stakeholders involved in the delivery of services
2. Agile management of technological services
3. Service management practices (I)
4. Service management practices (II)
5. Service management practices (III)

MODULE 5 .DESIGN THINKING

MODULE 6. CLASSIC MANAGEMENT FRAMEWORK; AGILITY FOR INNOVATION

UNIT 1. CLASSIC MANAGEMENT FRAMEWORK

1. Global vision of the project life cycle
2. Project launch
3. Planning
4. Project execution
5. Project control

UNIT 2. PROJECT MANAGEMENT AND STAKEHOLDERS

1. Project management framework
2. The role of the project leader
3. Project life cycle
4. Stakeholders management
5. Scope of the project

UNIT 3. AGILITY AND INNOVATION

1. The current context of innovation and change
2. Dimensions, critical factors and innovation models

3. Challenges to achieve agile innovation management
4. Current challenges for agile innovation management
5. Creation and capture of value

UNIT 4. INNOVATION, ACCELERATION AND AGILITY

1. Innovation strategy
2. Co-creation of value
3. Agile approach to co-creation of value
4. Streamlining and acceleration
5. Corporate accelerators

MODULE 7 .OTHER AGILE APPROACHES. SCALING AGILE AND TOOLS

UNIT 1. THE LAST PLANNER

1. Last Planner System
2. Components of the Last Planner System (I)
3. Components of the Last Planner System (II)
4. Components of the Last Planner System (III)
5. Last Planner System for manufacturing and production

UNIT 2. DIGITAL TOOLS

1. Digital tools
2. Tools on the market: Redmine and Trello
3. Tools on the market: Jira and Target Process
4. Tools for Quality (I)
5. Tools for Quality (II)

UNIT 3. ADVANCED PRACTICES

1. Steps to apply and adjust the Agile approach
2. Advanced practices
3. Neccesary practice: Analytics on KPIs
4. The Agile Organization
5. Personal case: Lean Management improvement and implementation project

UNIT 4. AGILE APPROACH SCALING

1. Scaling Scrum
2. DevOps
3. Deployment of DevOps
4. SAFe
5. Summary “tips” fo the Agile approach

MODULE 8. LEAN MANAGEMENT

UNIT 1. FUNDAMENTALS OF LEAN MANAGEMENT

1. What is Lean Management
2. Just-in-time, Jidoka and PDCA
3. Muda or Waste
4. Toyota Production System and Lean Start Up
5. Lean for services

UNIT 2. LEADERSHIP AND TEAM AMANGEMENT IN A LEAN CONTEXT

1. Metrics and management maturity
2. Adequate leadership according to lean management
3. Work teams in lean environments
4. Working with virtual (remote) teams
5. Applicable practices depending on the context

UNIT 3. LEAN MANAGEMENT TECHNIQUES

1. Added value and customer requirements
2. Value chain
3. Kaizen
4. Poka-Yoke
5. Benchmarking as a lean tool

UNIT 4. LEAN APPLICATIONS AND CONCLUSIONS

1. Lean management for construction and engineering
2. Construction according to lean management
3. Operations and competences
4. Digital lean transformation for engineering and construction
5. Conclusions about lean management

MODULE 9. AGILE APPROACH AND DIGITAL TRANSFORMATION

MODULE 10. MFP. MASTER'S DEGREE IN AGILE METHODOLOGIES AND DIGITAL TRANSFORMATION

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

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