Structuralia
Engineering eLearning

UNIVERSIDAD
NEBRIJA

Master´s Degree in Digital Skills and Competencies + 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 Digital Skills and Competencies + 60 ECTS Credits

LENGHT
1500 horas

MODE
ONLINE

ASSISTANCE
PERSONALIZED

CREDIT
60 ECTS

Certificacion

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



Description

This program has been designed to cover all the current digital transformation trends and their respective implications in relation to business development, project, and service management inside an organization. It also addresses the use and associated applications of said trends in the fields of finance, energy, sanitation, construction, logistics, traceability, contracts, legal regulations and compliance, industrial control, data protection and copyright, marketing, etc.

Goals

- Acquire appropriate knowledge about digital transformation
- Learn the current digital innovation approach
- Understand the modalities and application of digital businesses
- Learn project and service management approaches in the current digital transformation context
- Learn about the latest trends, such as blockchain, ntfs, tokenization, as well as big data and its consequences
- Learn about application cases in multiple industries and companies

What does it prepare you for?

Engineers from all sectors. Businesspeople, directors and executives who wish to learn about the possibilities and implications of the new digital transformation. Workers from public and private sectors interested in entrepreneurship. College and university students and professors, chambers of commerce, etc. All those who wish to delve into the concepts and applications of digital transformation in any sector (e.g., Blockchain).

Who is the target audience?

If you wish to learn more about the current digital transformation trends, such as blockchain, digital business, innovation trends and their impact in project and service management, along with case studies, this program is the most suitable option for you!

Job opportunities

Business consultant Project Manager Operations Manager Digital Transformation Expert Innovation manager or analyst Digital business expert

List of subjects

MODULE 1. DIGITAL TRANSFORMATION CONTEXT

UNIT 1. MANAGEMENT APPROACH FOR DIGITAL TRANSFORMATION

1. Management approach focused on digital transformation
2. Agile data: 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 approach and data: agile data
3. Data and agile approach projects
4. Agile data implementation
5. Infrastructure for agile data

UNIT 3. AGILE DIGITALIZATION

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

UNIT 4. SOFT SKILLS FOR AGILE APPROACH AND DIGITAL TRANSFORMATION

1. Soft skills for agile management - part 1
2. Soft skills for agile management - part 2
3. Soft skills for agile management - part 3
4. Soft skills for agile management - part 4
5. "Tips" summary of the agile approach

MODULE 2. INNOVATION

UNIT 1. 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 2. 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

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. Fullfilling 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 3. DIGITAL BUSINESSES

MODULE 4. DIGITAL TRANSFORMATION PROJECT MANAGEMENT (I)

MODULE 5. DIGITAL TRANSFORMATION PROJECT MANAGEMENT (II)

MODULE 6. 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 7. INTRODUCTION TO BIG DATA

UNIT 1. DATA IN COMPANIES

1. Data information knoledge wisdom
2. Data management (i)
3. Data management (ii)
4. Corporate performance management
5. Databases

UNIT 2. FROM BUSINESS INTELLIGENCE TO BIG DATA

1. Business intelligence
2. Datawarehousing
3. Big data
4. Hadoop
5. Spark

UNIT 3. BIG DATA TECHNOLOGY ARCHITECTURES

1. Hadoop ecosystem (I)
2. Hadoop ecosystem (II)
3. Hadoop ecosystem (III)
4. Spark ecosystem
5. Installation and configuration of big data architectures

UNIT 4. BIG DATA ANALYTICS

1. Analytics
2. Main algorithms (I)
3. Main algorithms (II)
4. Machine learning and deep learning
5. Internet of things

MODULE 8. BLOCKCHAIN AND DLT

UNIT 1. ORIGIN AND FOUNDATIONS OF BLOCKCHAIN

1. Understanding of the basic fundamentals of DLT technologies
2. Real market use cases: Bitcoin, the first blockchain solution
3. Identification of the fundamentals of block generation in a blockchain environment
4. Consensus algorithms
5. Analysis of various types of wallets

UNIT 2. PUBLIC BLOCKCHAINS AND PRIVATE BLOCKCHAINS

1. Use of other public blockchain solutions
2. Use of other private blockchain solutions
3. Forks
4. Assessment of the fundamentals of digital identity
5. Review of other digital identity initiatives

UNIT 3. ANALYSIS OF THE DIFFERENT TYPES OF TOKENS ON BLOCKCHAIN

1. Analysis and implementation of the different types of tokens currently in existence
2. Types of tokens: security tokens, utility tokens, other types of tokens
3. CeFi vs DeFi
4. DAOS
5. NFT tokens and their current status

UNIT 4. ENTERPRISE BLOCKCHAIN

1. Identification of the fundamentals of the Hyperledger foundation
2. Analysis of the fundamentals of Hyperledger fabric
3. Polygon fundamentals
4. Polygon for enterpises
5. Avalanche

MODULE 9. APPLICABLE REGULATIONS

MODULE 10. MFP. MÁSTER'S DEGREE IN DIGITAL SKILLS AND COMPETENCIES

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!

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