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Structuralia
Engineering eLearning



UCAM
UNIVERSIDAD
CATOLICA DE MURCIA

Master's Degree in Disaster Risk Management and Resilience Strategies and Tools + 60 ECTS Credits





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líder en formación online

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SOMOS STRUCTURALIA

Structuralia es una **institución educativa online de posgrados de alta especialización** en ingeniería, infraestructuras, construcción, energía, edificación, transformación digital y nuevas tecnologías. Desde nuestra fundación en 2001, estamos comprometidos con la formación de calidad para el desarrollo profesional de **ingenieros, arquitectos y profesionales del sector STEM**.

Ofrecemos una plataforma donde poder adquirir nuevas habilidades y actualizarse sin límites de tiempo o espacio. Gracias a nuestra metodología proporcionamos a nuestros estudiantes una **experiencia educativa comprometida** interactiva y de apoyo para que puedan enfrentarse a los desafíos del futuro en sus respectivos campos de trabajo.

Más de
20
años de
experiencia

Más de
200k
estudiantes
formados

Más de
90
nacionalidades entre
nuestro alumnado

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Engineering eLearning



Especialízate para
avanzar en tu **carrera profesional**

ALIANZAS STRUCTURALIA Y UNIVERSIDAD UCAM

Structuralia y la Universidad Católica de Murcia cierran una colaboración de forma exitosa. De esta forma, Structuralia y la Universidad Católica de Murcia apuestan por un aprendizaje colaborativo, innovador y diferente, al alcance de todos y adaptado al alumnado.

Además, ambas instituciones educativas apuestan por una educación práctica, que promueva el crecimiento personal y profesional del alumno/a. Todo con el fin de interiorizar nuevos conocimientos de forma dinámica y didáctica, favoreciendo su retención y adquiriendo las capacidades para adaptarse a una sociedad global en permanente cambio.

La democratización de la educación es uno de los objetivos de Structuralia y la Universidad Católica de Murcia, ya que ambas instituciones apuestan por llevar la educación a los rincones más remotos del mundo, aprovechando las innovaciones a nivel tecnológico. Además, gracias al equipo de docentes especializados, se ofrece un acompañamiento tutorizado a lo largo de la formación.



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RANKINGS DE STRUCTURALIA

Structuralia ha conseguido el reconocimiento de diferentes rankings a nivel nacional e internacional, gracias por su apuesta de **democratizar la educación** y apostar por la innovación educativa para **lograr la excelencia**.

Para la elaboración de estos rankings, se emplean **indicadores** como la reputación online y offline, la calidad de la institución, la responsabilidad social, la innovación educativa o el perfil de los profesionales.



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BY EDUCA EDTECH

Structuralia es una marca avalada por **EDUCA EDTECH Group**, que está compuesto por un conjunto de experimentadas y reconocidas **instituciones educativas de formación online**. Todas las entidades que lo forman comparten la misión de **democratizar el acceso a la educación** y apuestan por la transferencia de conocimiento, por el desarrollo tecnológico y por la investigación.



ONLINE EDUCATION



Ver en la web



METODOLOGÍA LXP

La metodología **EDUCA LXP** permite una experiencia mejorada de aprendizaje integrando la AI en los procesos de e-learning, a través de modelos predictivos altamente personalizados, derivados del estudio de necesidades detectadas en la interacción del alumnado con sus entornos virtuales.

EDUCA LXP es fruto de la **Transferencia de Resultados de Investigación** de varios proyectos multidisciplinares de I+D+i, con participación de distintas Universidades Internacionales que apuestan por la transferencia de conocimientos, desarrollo tecnológico e investigación.



1. Flexibilidad

Aprendizaje 100% online y flexible, que permite al alumnado estudiar donde, cuando y como quiera.



2. Accesibilidad

Cercanía y comprensión. Democratizando el acceso a la educación trabajando para que todas las personas tengan la oportunidad de seguir formándose.



3. Personalización

Itinerarios formativos individualizados y adaptados a las necesidades de cada estudiante.



4. Acompañamiento / Seguimiento docente

Orientación académica por parte de un equipo docente especialista en su área de conocimiento, que aboga por la calidad educativa adaptando los procesos a las necesidades del mercado laboral.



5. Innovación

Desarrollos tecnológicos en permanente evolución impulsados por la AI mediante Learning Experience Platform.



6. Excelencia educativa

Enfoque didáctico orientado al trabajo por competencias, que favorece un aprendizaje práctico y significativo, garantizando el desarrollo profesional.



Programas

**PROPIOS
UNIVERSITARIOS**

RAZONES POR LAS QUE ELEGIR STRUCTURALIA

1. Nuestra Experiencia

- ✓ Más de **20 años de experiencia**.
- ✓ Más de **200.000 alumnos** ya se han formado en nuestras aulas virtuales.
- ✓ Más de **90 nacionalidades** entre nuestro alumnado.

2. Nuestro Equipo

En la actualidad, Structuralia cuenta con un equipo humano formado por más **550 profesionales que trabajan en el sector STEM (Science, Technology, Engineering and Mathematics)**. Nuestro personal se encuentra sólidamente enmarcado en una estructura que facilita la mayor calidad en la atención al alumnado.

3. Nuestra Metodología



100% ONLINE

Estudia cuando y desde donde quieras. Accede al campus virtual desde cualquier dispositivo.



APRENDIZAJE

Pretendemos que los nuevos conocimientos se incorporen de forma sustantiva en la estructura cognitiva



EQUIPO DOCENTE

Structuralia cuenta con un equipo de profesionales que harán de tu estudio una experiencia de alta calidad educativa.



NO ESTARÁS SOLO

Acompañamiento por parte del equipo de tutorización durante toda tu experiencia como estudiante



4. Calidad AENOR

- ✓ Somos Agencia de Colaboración N°99000000169 autorizada por el Ministerio de Empleo y Seguridad Social de España.
- ✓ Se llevan a cabo auditorías externas anuales que garantizan la máxima calidad AENOR.
- ✓ Nuestros procesos de enseñanza están certificados por **AENOR** por la ISO 9001.



Master's Degree in Disaster Risk Management and Resilience Strategies and Tools + 60 ECTS Credits



DURACIÓN
1500 horas



**MODALIDAD
ONLINE**



**ACOMPANIAMIENTO
PERSONALIZADO**



CREDITOS
60 ECTS

Titulación

Master's Degree in Continuing Education in Disaster Risk Management and Resilience Strategies and Tools with 60 ECTS Credits awarded by the Catholic University of Murcia in collaboration with Structuralia

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Descripción

This Master's degree has been designed to provide professionals from different disciplines with the necessary knowledge and skills for applied research, and for the management of means and tools that can be used in the fields of Disaster Risk Management and climate governance. According to the Intergovernmental Panel on Climate Change (IPCC), climate governance is related to mechanisms and voluntary measures destined to run social systems towards prevention, mitigation or adaptation to the risks caused by climate change (Jagers and Steripple, IPCC glossary).

Objetivos

This program's objective is to equip the students with the knowledge and skills to:

- Understand Disaster Risk Management as a continuous process built upon social, cultural, economic and institutional circumstances, and that operates in contexts of constant hazard, climate variability and climate change.
- Identify and analyze the actions and measures required for prospective and corrective risk management.
- Understand disaster risk finance management, climate finances and post-disaster recovery processes after a disaster.
- Understand the role and operations of technological and information tools relevant to risk management, climate variability and climate change.
- Understand the climate change context and its relationship with Disaster Risk Management.
- Analyze the global climate governance challenges, the key players and the required mechanisms and measures to address such challenges.
- Understand the different adaptive climate governance tools and measures applied by territorial, sectorial, institutional, public, private and communal agencies.
- Encourage the creation of knowledge to promote research and the development of risk management and climate governance approaches

Para qué te prepara

The main groups of interest include engineers, architects, experts on Earth science, economic science, social science, environmental science, ecologists, sociologists, biologists, hydrologists, educators, geographers and other professionals interested in developing their competences in risk management and climate governance.

A quién va dirigido

Therefore, acquiring knowledge and skills in this subject is highly relevant in a world more and more exposed to climate-related phenomena

Salidas laborales

At the end of the program, the students of this program will have the necessary knowledge and skills to:

- Conduct research with Disaster Risk Management and climate governance tools and assets.
- Prepare, implement, and evaluate Disaster Risk Management and climate governance technical studies, diagnosis, projects, programs and measures.
- Formulate disaster risk mitigation and adaptation strategies
- Provide consultancy consulting services
- Become a specialized educator or public official.

TEMARIO

MODULE 1. DISASTER RISK MANAGEMENT AND CLIMATE CHANGE. CONCEPTS AND CONTEXT

UNIT 1. RISK MANAGEMENT AND CLIMATE CHANGE MANAGEMENT

1. The International Context of Disaster Risk Management (The Sendai Framework for Disaster Risk Reduction)
2. International Context of Climate Change. The IPCC: Climate Change Generalities and Scenarios.
3. Concepts related to disaster risk management and climate change and articulation levels
4. Lines of action for risk management and structural and non-structural intervention for risk reduction
5. Risk management by scenarios

UNIT 2. RISK OF DISASTER AND CLIMATE CHANGE

1. General basis of climate change
2. The IPCC: Climate change generalities and scenarios
3. Relation development - risk - disasters (risk construction) and the effects and impacts of climate variability and climate change
4. Extensive and Intensive Risks, their impact on human development
5. The inequalities and conditions of vulnerability and the impacts and effects of climate variability and climate change

UNIT 3. SYSTEMIC APPROACH FOR THE MANAGEMENT OF DISASTER RISK AND CLIMATE CHANGE MANAGEMENT

1. Areas for risk management and climate change (to institutional to the sectorial, private, territorial, community sector)
2. Participants and Actions for the management of disaster risk and climate change Risk Management
3. Planning instruments for risk management and climate change
4. Institutionality, Entities and Organizations for the implementation and monitoring of actions
5. Adaptation and mitigation strategies for climate change

UNIT 4. FOCUS OF PROCESSES AND STRATEGIES FOR AN INTEGRAL MANAGEMENT OF THE RISK OF DISASTERS AND ADAPTATION TO CLIMATE CHANGE

1. What does the process-based approach implies (change of the emergency and disasters care approach) in the context of climate variability and change
2. Strategic Processes: Planning, Organization and monitoring
3. Mission processes: Knowledge of risk, reduction of risk and management of disasters
4. Support Processes: strengthening of human resource knowledge, public communication and information
5. Strategies for a comprehensive management of the risk of disasters in the context of climate variability and climate change

MODULE 2. PROSPECTIVE AND CORRECTIVE RISK MANAGEMENT

UNIT 1. CONTEXT AND CONCEPTUALIZATION OF RISK AWARENESS TOWARDS ITS PROSPECTIVE AND CORRECTIVE MANAGEMENT

1. Disaster Risk Management
2. Disaster Risk Management and its internal context
3. Disaster Risk Management and its external context
4. Disaster Risk Management and its process context
5. Disaster Risk criteria

UNIT 2. PROSPECTIVE AND CORRECTIVE MANAGEMENT. RISK ASSESSMENT

1. Disaster Risk Identification
2. Disaster Risk Analysis
3. Disaster Risk Assessment
4. Disaster Risk Monitoring
5. Illustrative Examples of Disaster Risk Assessment

UNIT 3. REDUCING RISKS THROUGH PROSPECTIVE INTERVENTIONS

1. Context and conceptualization of Disaster Risk Reduction
2. Current and Future Risk Processes
3. Prospective intervention
4. Risk Reduction Measures - Prospective Intervention (Future Risk)
5. Disaster Risk Reduction and Resilience

UNIT 4. REDUCING RISKS THROUGH CORRECTIVE INTERVENTIONS

1. Corrective intervention (mitigation of current risk)
2. Reducing vulnerability and improving resilience and capability through structural and non-structural measures
3. Financial protection
4. Social actors against Disaster Risk reduction
5. Illustrative examples of corrective interventions

MODULE 3. CLIMATE VARIABILITY AND CLIMATE CHANGE

UNIT 1. THE CLIMATE SYSTEM

1. Introduction to the Climate System
2. Structure and Components of the Climate System
3. The Atmosphere and Life on Earth
4. The Importance of the Hydrological Cycle in Climate Regulation
5. Natural Drivers of Climate Change

UNIT 2. WEATHER, CLIMATE AND CLIMATE CHANGE

1. Energy Balance in the Climate System
2. Changes in the Climate System

3. The Oceans and Atmosphere: Essential Interactions for weather
4. Climate Variability
5. Weather, Climate and Climate Change in Strategic Systems

UNIT 3. CLIMATE CHANGE

1. Anthropogenic Drivers of Climate Change
2. History of Climate Change
3. Observed Trends of Climate Change: First-Tier Effects
4. Global Scenarios of Climate Change
5. The Importance of the 1.5°C

UNIT 4. VULNERABILITY ANALYSIS AND CLIMATE CHANGE RISK (CCR)

1. Expected Trends of Climate Change: Second-Tier Effects
2. Climate Change Vulnerability
3. Vulnerability Dimensions and Climate Change Risk
4. Disaster Risk (DR) and Climate Change Risk (CCR)
5. Examples

MODULE 4. ICT AND GIS APPLIED IN THE MANAGEMENT OF DISASTER RISK AND CLIMATE CHANGE

UNIT 1. INTRODUCTION TO IT, GIS, GPS, DB, AND TELECOM

1. Introduction to Information Technology and Tech Advances
2. Databases / DB, data storage, and database management systems.
3. GIS, GPS and Coordinate Systems
4. Using Google Earth Pro to Locate Coordinates and Maps
5. GPS Essentials App and how to collect Data from GPS with Android smartphones.

UNIT 2. BASIC TOOLS TO COLLECT GEOLOCALIZED DATA IN A DATABASE

1. Creating a Data Collection Form: Recommendations to Create Data Storage Structures
2. Kobotoolbox
3. Typeform
4. GISCLOUD
5. Fullcrum App

UNIT 3: QGIS DESKTOP TOOL AND THE CREATION OF WEB GEOSERVICES WITH GEOSERVER.

1. QGIS Basic Tools (I)
2. QGIS Basic Tools (II)
3. What are WMS and WFS Geoservices?
4. Creating WMS or WFS with Geoserver and their Applications (I)
5. Creating WMS or WFS with Geoserver and their Applications (II)

UNIT 4: CREATING MAPS. LAYERS, CARTOGRAPHY, CADASTRE, CENSUS AND GIS ANALYSIS TO OBTAIN HAZARD, VULNERABILITY AND RISK MAPS

1. Relation between Risk Management, Cadastre, Census and Cartography

2. Creating Urban Land Use and Critical Infrastructure Maps.
3. GIS Analysis with QGIS and ArcGIS Desktop Demonstration
4. Susceptibility, Hazard, Vulnerability and Risk Maps: Differences, Map Types and Mapping Methodologies
5. Climate Models and Climate Trends

MODULE 5. DISASTER RISK FINANCIAL MANAGEMENT AND CLIMATE FINANCE

UNIT 1. CONTEXT AND CONCEPTUALIZATION OF DISASTER RISK FINANCIAL PROTECTION AND CLIMATE FINANCE

1. Conceptualization of Disaster Risk Financial Protection
2. Conceptualization of Climate Finance
3. Disaster Risk Financial Protection and Climate Finance as Components of Fiscal Management
4. Legal Framework of Disaster Risk Financial Protection and Climate Finance
5. Benefits from Grouping Risks

UNIT 2. DISASTER RISK FINANCIAL PROTECTION IN PUBLIC INVESTMENT

1. Disaster Risk Financial Protection Strategies
2. Disaster Risk Retention Tools
3. Disaster Risk Financing Tools
4. Disaster Risk Transfer Tools
5. Disaster Risks Analysis and Climate Change Criteria in Public Investment

UNIT 3. DISASTER RISK FINANCIAL PROTECTION IN PRIVATE INVESTMENT

1. Risk Management
2. Insurance
3. Insurance Types
4. Disaster Contingency Plans against Disaster Occurrence
5. Finance perspective of Environmental and Social Risks

UNIT 4. CLIMATE FINANCE

1. Possible Impacts due to Climate Events
2. Inclusion of Climate Event Considerations in the Planning Process
3. Financial Tools to Respond to Climate Events
4. Tax Management to Promote Climate Change Adaptation
5. Green Funds/Green Bonds

MODULE 6. DISASTER MANAGEMENT AND RECOVERY

UNIT 1. CONTEXT AND CONCEPTS OF DEVELOPMENT-ORIENTED DISASTER MANAGEMENT AND RECOVERY

1. Concepts of Emergencies and Disasters
2. Concepts of Development-Oriented Recovery
3. Context of Development-Oriented Disaster Response and Recovery
4. Effects and Impacts of Climate Variability and Climate Change on Disaster Response and

Recovery

5. Cross-Cutting issues associated Development-Oriented Disaster Management

UNIT 2. DISASTER MANAGEMENT AND RECOVERY PLANNING

1. Disaster Management and Recovery Processes
2. Preparedness and Alerts
3. Emergency Response Processes
4. Post- Disaster Recovery Planning Process
5. Territorial Levels and Work Areas

UNIT 3. INFORMATION MANAGEMENT, AND RESPONSE AND RECOVERY ASSESSMENTS

1. Response Information
2. Instruments and Needs Assessments
3. Information Management in Development-Oriented Recovery
4. Damages, Loss and Recovery Needs Assessment
5. Recovery: Assessment from the Government's Perspective, the Private Sector and Communities

UNIT 4. DISASTER MANAGEMENT AND DEVELOPMENT-ORIENTED RECOVERY STRATEGIES AND INSTRUMENTS

1. Disaster Management and the Humanitarian Agenda Strategies
2. Emergency Response and Disaster Management Instruments
3. Post- Disaster Development-Oriented Recovery Strategies
4. Post-Disaster Development-Oriented Recovery Planning and Implementation Instruments
5. Disaster Response and Recovery Actions. Technical and Resource Implementation Needs

MODULE 7. ENVIRONMENTAL AND DISASTER RISK MANAGEMENT TOOLS AT TERRITORIAL SCALES

UNIT 1. TERRITORIAL SCALES OF ANALYSIS

1. How is a territory defined?
2. Territorial analysis based on political boundaries
3. Territorial analysis based on environmental boundaries
4. Global, regional, national, and local territorial scales
5. Territory in environmental and disaster risk management

UNIT 2. DIAGNOSTIC TOOLS FOR ENVIRONMENTAL AND RISK MANAGEMENT

1. Diagnostic instruments in different types of management
2. Characteristics of geological hazards
3. Characteristics of hydrometeorological hazards
4. Characteristics of biological hazards
5. Environmental impact assessment studies

UNIT 3. ENVIRONMENTAL AND RISK MANAGEMENT PLANNING INSTRUMENTS

1. Planning and its environmental dimension
2. Spatial planning

3. Disaster risk management planning and climate change planning instruments
4. Environmental planning
5. Sustainable development planning

UNIT 4. MANAGEMENT AND MONITORING INSTRUMENTS

1. Operational planning instruments
2. River basin management plans
3. Environmental management plans (EMPS)
4. Emergency contingency plans
5. Citizen oversight plans

MODULE 8. PUBLIC, PRIVATE AND COMMUNITY INVESTMENT TOOLS

UNIT 1. GENERALITIES ON RISK MANAGEMENT IN PUBLIC INVESTMENT

1. Risk management in public investment
2. Advances and challenges for risk management in public investment
3. Governance for public management and disaster risk management
4. Advances in disaster risk governance
5. Evaluation of the state of incorporation of risk management in public investment

UNIT 2. INSTRUMENTS FOR RISK MANAGEMENT IN PUBLIC INVESTMENT

1. Probabilistic analysis instruments
2. Risk analysis instruments in pre-disaster public investment
3. Risk reduction instruments in post-disaster public investment
4. Risk analysis instruments in public investment at sector level
5. Instruments for monitoring public spending

UNIT 3. PRIVATE INVESTMENT AND DISASTER RISK

1. Risk management in private investment
2. The business sector and risk reduction
3. Public-private partnerships for disaster risk reduction
4. Economic sector: tourism and disaster risk reduction
5. Economic sector: agro-industry and disaster risk reduction

UNIT 4. RISK MANAGEMENT FROM THE COMMUNITY LEVEL

1. Risk management from the community level
2. Vulnerabilities and challenges from the community level
3. Community resilience analysis
4. Community disaster risk management planning instruments
5. Risk assessment instruments at the community level

MODULE 9. DISASTER RISK CORRECTIVE MANAGEMENT

UNIT 1. CONCEPTUAL FRAMEWORK

1. Conceptual framework
2. Risk reduction strategies
3. Incorporating corrective risk management into land-use and environmental planning instruments
4. Incorporating corrective risk management in investment
5. Steps for corrective disaster risk intervention

UNIT 2. CORRECTIVE HAZARD MANAGEMENT

1. Overview of corrective hazard management
2. Structural flood management measures
3. Structural management measures for mass movements
4. Environmental management measures
5. Non-structural measures to reduce the threat

UNIT 3. CORRECTIVE VULNERABILITY MANAGEMENT

1. Corrective vulnerability management
2. Structural measures to reduce vulnerability
3. Non-structural measures to reduce vulnerability
4. Resettlement as a vulnerability reduction measure
5. Resettlement - steps to define a process

UNIT 4. COMPREHENSIVE RISK MANAGEMENT INTERVENTIONS

1. Territorial projects
2. Sectoral projects
3. Climate change adaptation measures related to disaster risk management
4. Macro-projects as regional intervention measures
5. Resilient infrastructure as corrective risk management

MODULE 10. MFP. MASTER'S DEGREE IN DISASTER RISK MANAGEMENT AND RESILIENCE STRATEGIES AND TOOLS

¿Te ha parecido interesante esta información?

Si aún tienes dudas, nuestro equipo de asesoramiento académico estará encantado de resolverlas.

Pregúntanos sobre nuestro método de formación, nuestros profesores, las becas o incluso simplemente conócenos.

Solicita información sin compromiso

Telefonos de contacto

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Bolivia		+591 50154035	Estados Unidos		1-(2)022220068
Chile		56-(2)25652888	Guatemala		+502 22681261
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!Encuétranos aquí!

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