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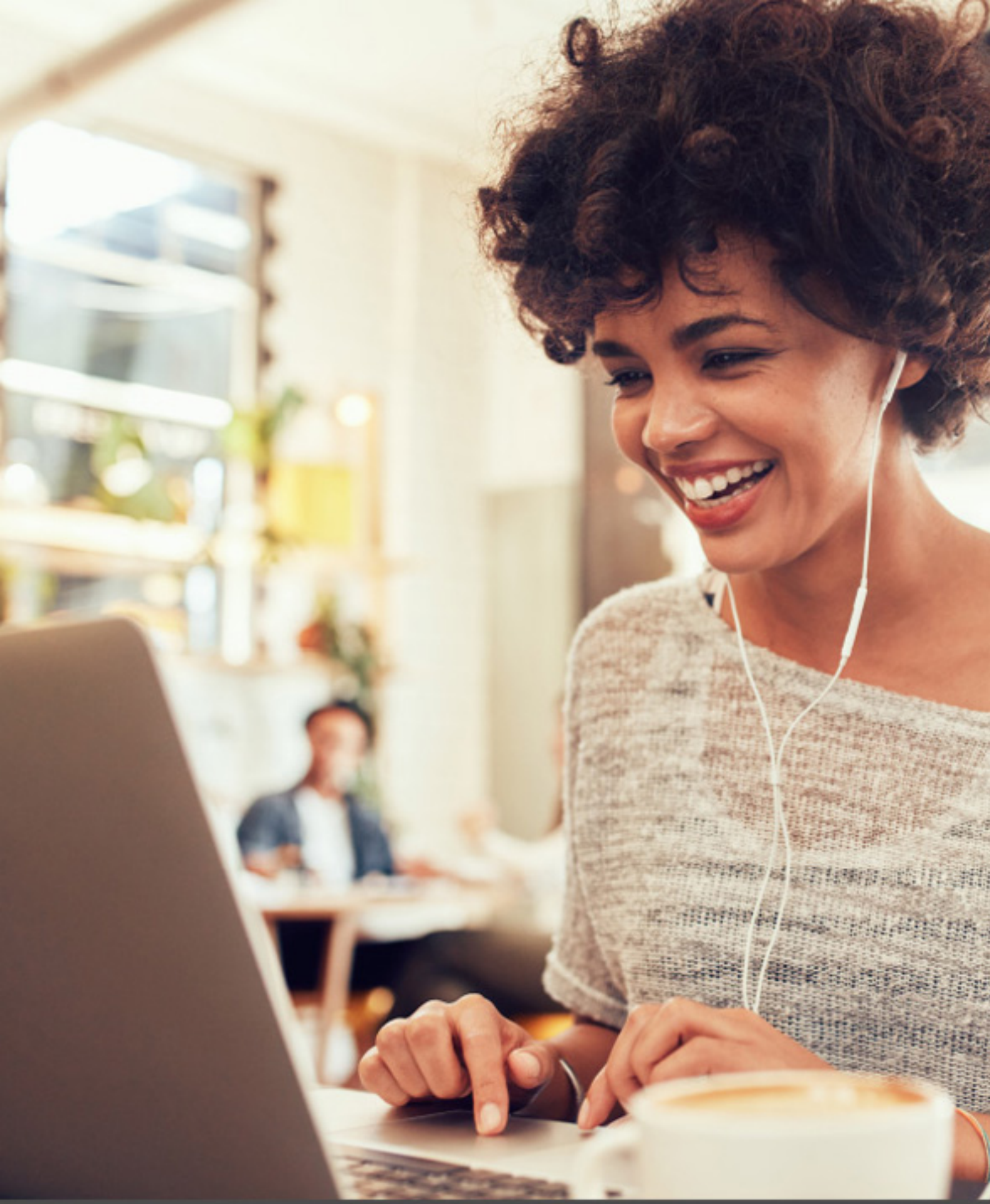
CATÓLICA DE MURCIA

Master´s Degree in Disaster Risk Management and Climate Governance + 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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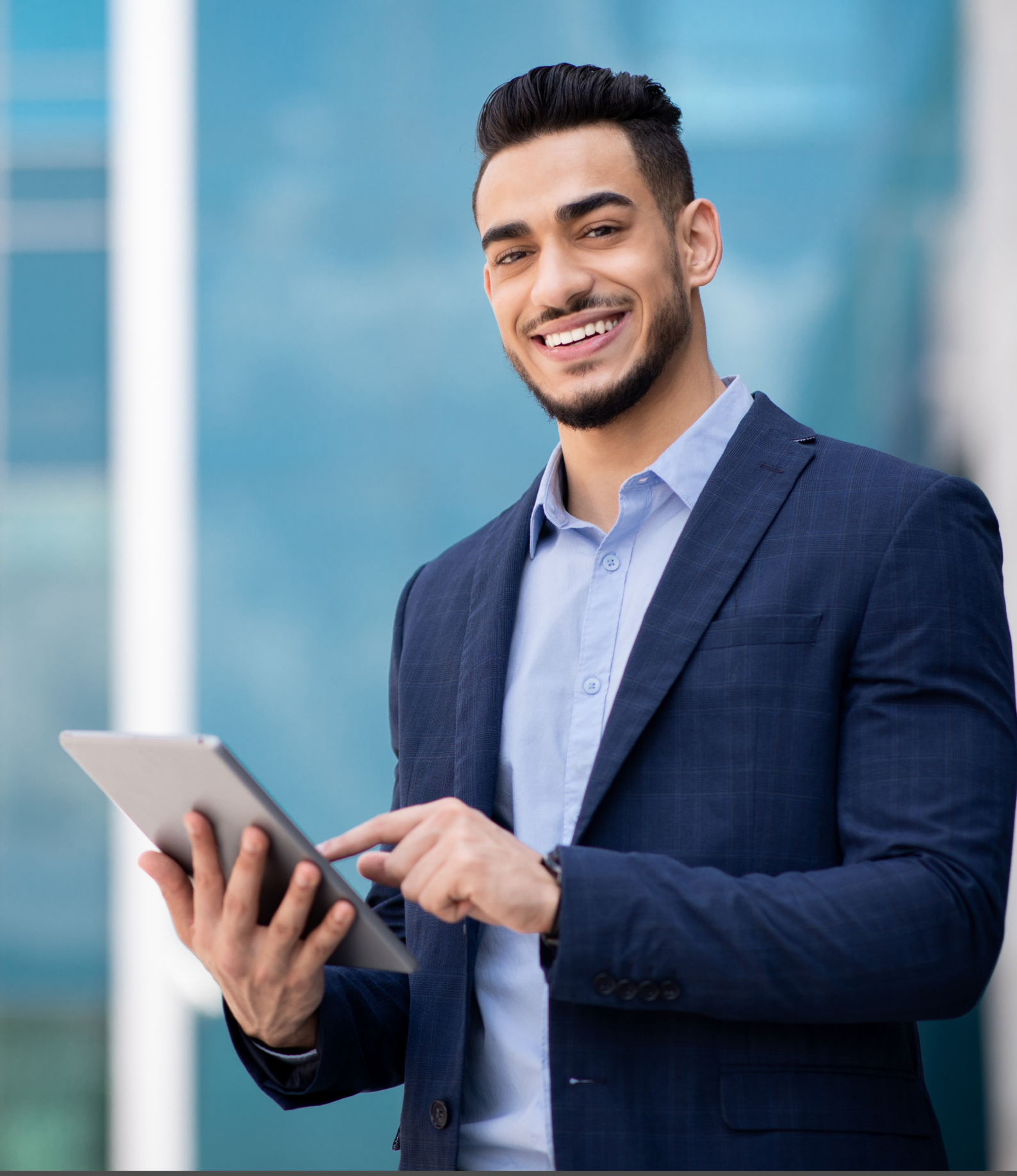
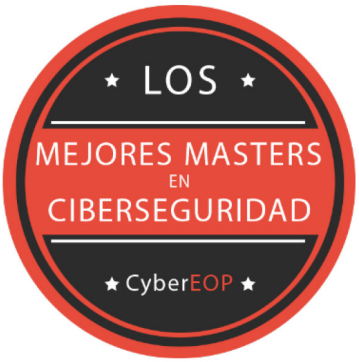


Especializate para
avanzar en tu **carrera profesional**

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.

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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

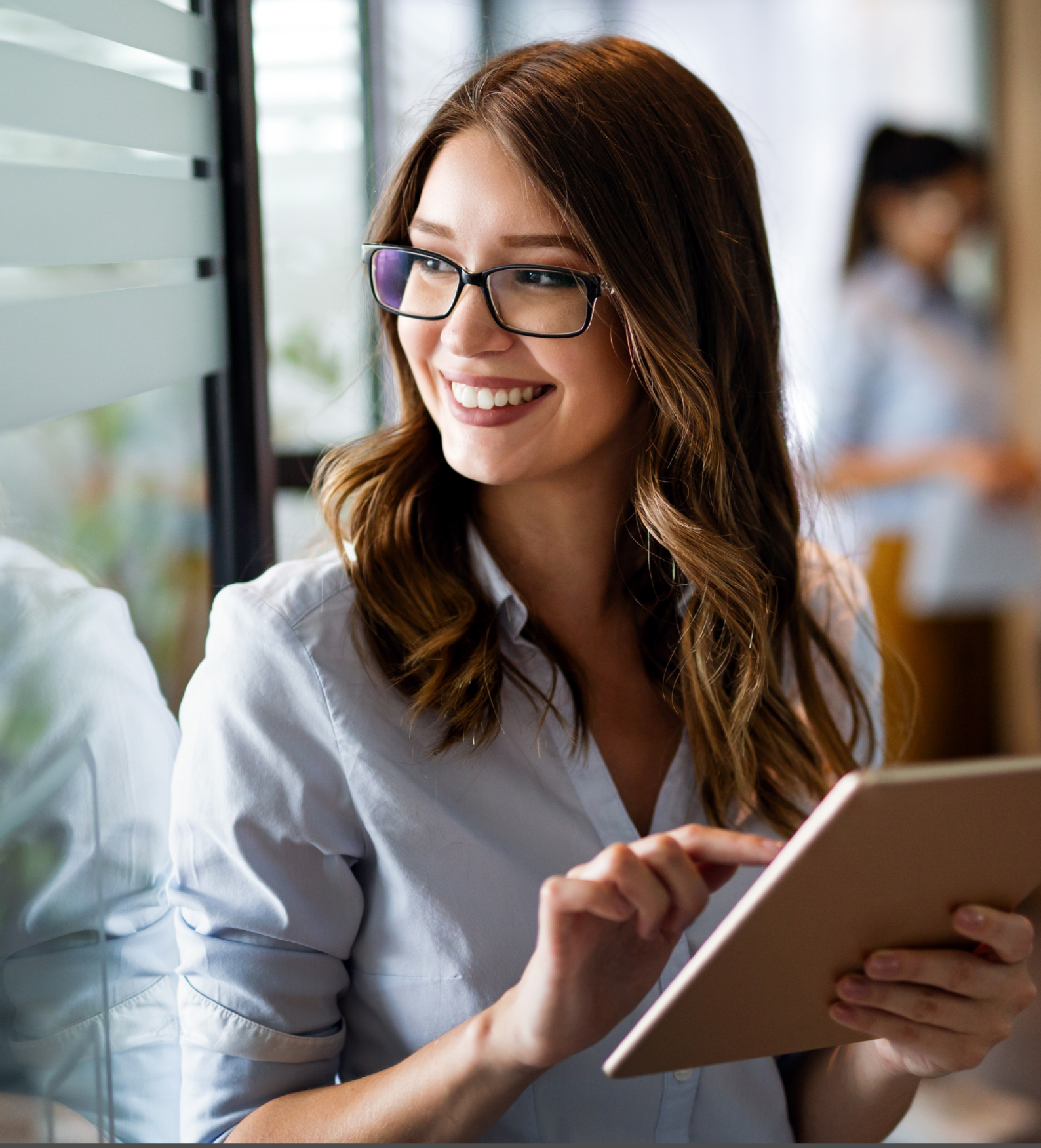
Orientación académica por parte de un equipo docente especialista en su área de conocimiento, que aboga por la calidad educativa adaptando los procesos a las necesidades del mercado laboral.

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

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4. Calidad AENOR

- ✓ Somos Agencia de Colaboración Nº99000000169 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 Climate Governance + 60 ECTS Credits

DURACIÓN
1500 horas

MODALIDAD
ONLINE

ACOMPAÑAMIENTO
PERSONALIZADO

CREDITOS
60 ECTS

Titulación

Master´s Degree in Continuing Education in Disaster Risk Management and Climate Governance with 60 ECTS Credits awarded by the Catholic University of Murcia in collaboration with Structuralia

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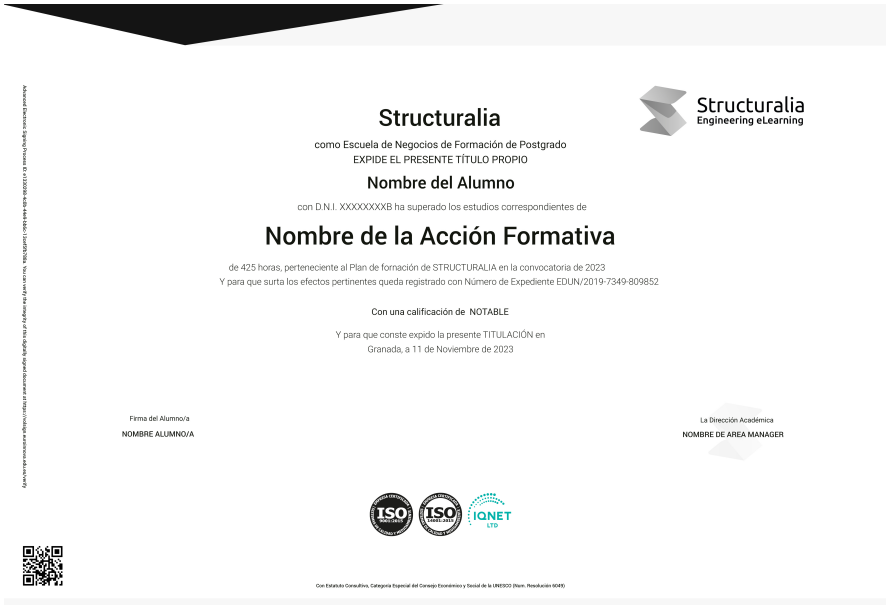
Structuralia

como Escuela de Negocios de Formación de Postgrado
EXPIDE EL PRESENTE TÍTULO PROPIO

Nombre del Alumno

con D.N.I. XXXXXXXXB ha superado los estudios correspondientes de

Nombre de la Acción Formativa

de 425 horas, perteneciente al Plan de fornación de STRUCTURALIA en la convocatoria de 2023
Y para que surta los efectos pertinentes queda registrado con Número de Expediente EDUN/2019-7349-809852

Con una calificación de NOTABLE

Y para que conste expido la presente TITULACIÓN en
Granada, a 11 de Noviembre de 2023

Firma del Alumno/a
NOMBRE ALUMNO/A

La Dirección Académica
NOMBRE DE AREA MANAGER

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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

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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. CLIMATE GOVERNANCE

UNIT 1. WHY IS CLIMATE GOVERNANCE NECESSARY?

1. What Is the Governance?
2. Differences between Government, Governability and Governance
3. Social, Environmental and Climate Governance
4. Climate Governance Levels: Global, Regional and Local
5. Governance Gaps

UNIT 2. GOVERNANCE: COUNTRIES, CITIES AND COMMUNITIES

1. The Need for Effective Climate Change Response in Countries with Diverse Contexts
2. Climate Action Barriers
3. Governance in Countries and Cities
4. Community-based Governance
5. Examples

UNIT 3. STRATEGIC SECTOR GOVERNANCE

1. Agricultural Governance
2. Agricultural Governance Examples

3. Water Governance
4. Water Governance Examples
5. Coastal Area Climate Governance

UNIT 4. CAPACITIES AND CHALLENGES OF CLIMATE GOVERNANCE

1. Required Country Transformations: Opportunities and Challenges
2. Other Actors and their Perspectives
3. Participatory Governance and Consultation Processes
4. Governance Systems and Sustainable Development
5. Climate Governance and Disaster Risk Governance

MODULE 8. GLOBAL WARMING MITIGATION TOOLS

UNIT 1. THE CLOSE LINK BETWEEN GREENHOUSE GAS (GHG) AND GLOBAL WARMING (GW)

1. Atmospheric Pollution
2. Global warming and Climate Change
3. Global Greenhouse Gas Emissions
4. What is Global Warming Mitigation?
5. Policy Approaches to Mitigation

UNIT 2. INTERNATIONAL MITIGATION MECHANISMS

1. Nationally Determined Contributions
2. Carbon Emission Trade or Bond law
3. Clean Development Mechanisms
4. Joint Action and Adaptation Fund
5. Non-market-based Compensation Mechanisms. Voluntary market

UNIT 3. SECTORAL MITIGATION STRATEGIES

1. Energy Sector
2. Industry Sector
3. Transportation Sector
4. Housing and Construction Sectors
5. Agriculture, Forestry and other Land Use Sectors

UNIT 4. MITIGATION BENEFIT AND OPPORTUNITIES

1. Mitigation in Asia
2. Mitigation Measures in the American Continent
3. Mitigation Measures in Africa
4. Mitigation Measures in Europe
5. Mitigation Measures in Oceania

MODULE 9. CLIMATE CHANGE ADAPTATION TOOLS

UNIT 1. CLIMATE CHANGE RISKS IN TERMS OF ANALYSIS AND VULNERABILITY

1. Climate change risks to water resources
2. Climate change risks to biodiversity and ecosystem services
3. Climate change risks to food safety and manufacturing systems
4. Climate change risks to human settlements and infraestructures
5. Climate change risks to human health

UNIT 2. ADAPTATION TO CLIMATE CHANGE

1. What is climate change adaptation? Resilience
2. Climate change approaches
3. Climate adaptation options
4. Implementing adaptation
5. The thin line between development and adaptation

UNIT 3. INTERNATIONAL EXPERIENCE IN CLIMATE CHANGE ADAPTATION

1. UNFCCC: Commitments and progress in global climate change adaptation
2. Warsaw international mechanisms for loss and damage
3. International strategies: Euroclima +
4. National adaptation programmes of action (NAPA) and adaptation plans (NAP)
5. Cities and climate change adaptation

UNIT 4. SECTORAL ADAPTIVE STRATEGIES

1. Adaptive strategies in comprehensive water resource management
2. Adaptive strategies in biodiversity and ecosystem services
3. Adaptive strategies in human settlements and infraestructura
4. Adaptive strategies in productive systems and food security
5. From climate crisis to climate action: where are we going now?

MODULE 10. MFP. MASTER´S DEGREE IN DISASTER RISK MANAGEMENT AND CLIMATE GOBERNANCE

¿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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