Green Economy Academy

Training Course

Climate Change, Health, and Migration

Launched and supported by the National Institute for Health Migration and Poverty (NIHMP) under the auspices of the Italian Embassy in Egypt

Cairo | May 11-15

The Green Economy Academy -GEA- is an annual training initiative of the Embassy of Italy, since 2022, to build a platform for discussions among international experts, representatives of the institutions and of the private about cross-cutting issues related to Green Economy, such as renewable energy, water management, health and nutrition, climate change, and food security. The GEA 20025 is focused on the nexus Climate Change, Migration and Health -CCMH- as announced in the December 2024 conference.

Course Objective:
This training course aims to provide a comprehensive understanding of climate change and its far-reaching impacts on human health and migration. It will explore the complex interactions between environmental changes, public health challenges, and migration patterns, highlighting the vulnerabilities of affected populations. Participants will examine scientific evidence, policy frameworks, and adaptation strategies at both local and global levels. The course will also emphasize practical solutions, including sustainable resource management, health interventions, policy responses, and community-driven resilience initiatives, to equip participants with the knowledge and skills needed to address these pressing challenges effectively.

Training by

ISDE -Doctors for Environmet INMP – NIHMP University of Milano –Bicocca/ Quantia Consulting SRL World Health Organisation International Organization for Migration CGIAR (Consultative Group for International Agricultural Research) Galala University

With the participation of

Agricultural Research Center, Ain Shams University, Cairo University, Climate change information center , Desert Research Center , Egypt Healthcare Authority, Egyptian Food Bank , Egyptian Meteorological Authority, Galala university , Greenish Foundation for Development, Horus University, Mansoura University, Ministry of Agriculture, Ministry of Health, Ministry of Housing , Ministry of Tourism, Misr University for Science and Technology , NRC, Nature conservation Egypt , Nile University, Sadat city University ,Sustainable development community Egypt, World Health Organization, Zewial city of science and technology

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Hotel Fairmont Nile Towers- Meeting Room Magnolia 9 am-5 pm
Course Duration:
The training course will span five days, with each day comprising two sessions:

- Morning session (9:30 AM – 12:30 PM): Theoretical instruction
- Afternoon session (2:00 PM – 5:00 PM): Practical exercises

Coffee breaks at 9:00 AM, and at 1:00 PM Lunch: 5:00 PM.

PROGRAM

Opening Remarks

Maria Giuseppina Lecce, NIHMP

Domenico De Martinis, Italian Embassy in Cairo

Module 1: Introduction to Climate Change

Morning Theatrical Session

ISDE
Paolo Lauruiola
NIHMP
Laura Guercio

1. **What is Climate Change? Causes, Effects and Proposals (part 1) Paolo Lauriola**
    - Definition and main causes (greenhouse effect, human activities, deforestation, etc.).
    - Direct and indirect impacts on natural systems and human societies.
    - Analysis of global trends and future projections (IPCC reports, scientific data).
2. **Global Climate Policies Laura Guercio**
    - International agreements: Paris Agreement, Agenda 2030, sustainable development goals.

Afternoon Practical Sessions **University of Milano –Bicocca/Quantia Consulting SRL Milano**

Anna Sandionigi

Climate, Childhood, and Complexity: Lessons from the Exposome for Mental Health Futures

- Lessons from the Equal-Life Horizon2020 project: Introduce the Exposome approach and how it was applied in Equal-Life to understand the multifactorial impact of environmental and social factors on children's mental health.
- Workshops, simulations, and interactive discussions.
- Guided tour of the toolbox: structure, content, and usability

Module 2:

Climate Change and Human Health

ISDE
Paolo Lauriola
WHO
Grazia Perreca
Lucia Barcellini
Hamid Ravaghi

Morning Theoretical Session

1. What is Climate Change? Causes, Effects and Proposals (part 2) (**Paolo Lauriola –ISDE**)
- Heatwaves, air pollution, and natural disasters (floods, hurricanes).
- Increase in infectious diseases (malaria, dengue, respiratory illnesses, etc.).

2. **Health Inequalities and Vulnerable Populations**
- • Disproportionate climate-health impacts on vulnerable groups and the need for multisectoral, equity-based responses to leave no one behind. **Grazia Perreca**
- • Migrant Health and Climate Change: the need for inclusive, adaptive health systems for displaced populations. **Lucia Barcellini**

3. Climate-Resilient and Sustainable Health Systems
- Adaptation strategies for climate-resilient and environmentally sustainable health systems and facilities. **Hamid Ravaghi**
- Prevention and emergency response planning aligned with climate and environmental health risks. **Hamid Ravaghi**

Afternoon Practical Sessions:

Assessing and Responding to Climate-Related Health Risks"

- Case studies on climate-related health crises.
- Data analysis on disease prevalence and climate patterns.
- Workshop on developing community-based health adaptation plans.

Module 3:

Climate Change and Migration

IOM
Michela Martini
Masako Ueda
Samir Hadjiabduli

Morning Theoretical Session

1. **Climate Change as a Driver of Migration**
    - How climate change affects migration (floods, desertification, sea level rise, etc.).
    - "Climate refugees": who they are and how they are recognized.
2. **Internal and International Migration**
    - Forced mobility within countries and between regions (e.g., Pacific island nations, rural-urban migration).
    - Migration flows towards safer areas: challenges, opportunities, and impacts.

Afternoon Practical Session

Mapping Climate-Induced Migration: Challenges and Policy Responses

- Case study analysis of climate migration hotspots.
- Data-driven mapping of displacement patterns.
- Workshop on policy solutions for climate migrants.

Module 4:

Integration of Health, Climate Change, and Migration

CGIAR
Grazia Pacillo
Rabie Sara
Jaskolski Martina
Schapendonk Frans

Morning Theoretical Session

1. **Links Between Health and Climate-Related Migration**
    - Health challenges for climate migrants.
    - Psychosocial impacts and mental health of migrants.
2. **Migration Policies and Protection of Climate Refugees**
    - International and national legal frameworks
    - How countries are responding to this phenomenon (Climate Change Laws, Geneva Convention, asylum policies).

Afternoon Practical Sessions

Developing Health and Policy Responses for Climate Migrants

- Case study analysis of health risks faced by climate migrants.
- Role-playing exercise on asylum applications for climate refugees.
- Workshop on policy recommendations for protecting climate migrants.

Module 5 Only Morning Session

Round Table and Concluding Remarks

Shaping Public Policies and International Cooperation – Advancing the Project Forward

Moderators

Prof. Ahmed ElHussein Einewhishy, Director of Molecolar Biotechnology program, Galala University

Dott. Maria Giuseppina Lecce, Senior Medical Doctor NIHMP Health Equity Unit, Project Manager of the NIHMP Project

Speakers

Dott. Cristiano Camponi, General Director of the National Institute for Health Migration and Poverty (NIHMP)

Prof. Mohamed Abdelmontaser Abouzeiid, Dean of Faculty of Science, Galala University

Counsellor Giuseppe Papalia, Head, Country Promotion Office, Embassy of Italy in Egypt

Teaching Methods:

- **Theoretical Lessons:** to explain key concepts and provide foundational knowledge.
- **Case Studies and Simulations:** to apply knowledge to real-world situations (e.g., case studies on climate refugees in Africa or Pacific islands).
- **Discussions and Group Work:** to encourage debate and collective reflection.
- **Guest Speakers:** involving experts in climatology, public health, and migration to provide practical insights.

Support Materials:

- Slides and handouts.
- Research papers and international reports.
- Practical examples and expert testimonies.
- articles, videos, webinars

Target Audience:

- Professionals in public health, migration policies, environmental protection, and NGOs.
- Government officials, civil protection workers.
- Researchers in environmental sciences, public health, sociology, and international law.