SUMMER SCHOOL ON "THE ECONOMICS OF CLIMATE CHANGE AND POLICY"

a microeconomic approach

JULY 6 - JULY16, 2021

SESSION 7:00AM GMT-5 / 14:00 CET - 11:00 GMT-5 / 18:00 CET

ACTION ON CLIMATE CHANGE IS URGENT. THE MORE WE DELAY, THE MORE WE WILL PAY IN LIVES AND IN MONEY

Ban Ki-Moon

MOTIVATION

The temperature of the planet is increasing over time. During the last 30 years of the last century, the temperature increased as much as during the first 77 years. This can translate into a decrease in water resources, extreme climate events, changes in precipitation, among other factors that will affect human wellbeing. These effects of climate change will have the greatest impact in tropical areas of developing countries with semi-arid and humid climates.

The goal of the Summer School is to introduce students to the main theoretical and empirical tools to understand the economics of climate change and climate policy. We provide students with the opportunity of carrying out a defined project under the supervision of international tutors.

In this edition, we study a microeconomic approach. In particular, we will put emphasis on Climate-Smart Agriculture (CSA), which encompasses different agricultural practices that aim to sustainably increase productivity, enhance resilience, and reduce greenhouse gases (GHG) emissions. In Latin America, CSA-related practices have been implemented for many years, nevertheless, they are often adopted unsystematically and the ratio of use among farmers remains low. There is a lack of evidence to compile the lessons learned so far at the regional level, identify favorable enabling environments, and outcast the ongoing work and research developed in this area.

Due to COVID-19, Summer School will be held entirely online.

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Universidad Tecnológica de Pereira

UNIVERSIDAD EIA Ser, Saber y Servir

Universidad de los Andes Colombia

Technical University of Munich

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CONTENT

(60 hours = 40 Online Lectures+ 20 Self-Study)

MODULE 1 - 4 HOURS

Introduction of Climate Change Economics

Johannes Sauer - Technical University of Munich

- Why should Economics care about climate change?
- Macroeconomics of climate change
- Empirical insights of climate change and economic performance

MODULE 2 - 8 HOURS

The Microeconomics of Climate Change

Federico Ceballos - Universidad EIA
Juan Carlos Muñoz-Mora - Universidad EAFIT

- Adaptations and mitigation within household decision making
- Agricultural Household Models and Climate Change
- Rural modernization and environmental practices
- Workshop of using R to apply

MODULE 3 - 8 HOURS

Climate Smart Agriculture (CSA)

Maria Vrachioli - Technical University of Munich
Roberto Villalba - Technical University of Munich

- Basics of adaption and mitigation in the agricultural sector
- Incentives and the diffusion of agricultural knowledge
- Introduction to CSA
- Challenges and barriers for CSA adoption
- Financing mechanisms for CSA adoption

MODULE 4 - 8 HOURS

Empirics of Climate Smart Agriculture

Federico Ceballos - Universidad EIA
Orlando Rodriguez - Universidad Tecnológica de Pereira
Juan Carlos Muñoz-Mora - Universidad EAFIT

- Case Studies of CSA in Colombia
- Workshop CSA evaluation using R

MODULE 5 - 8 HOURS

Bioeconomy and climate change

Mauricio Alviar - Universidad EIA
Maria Vrachioli - Technical University of Munich

- Introduction to Bioeconomy
- Monitoring Bioeconomy in Europe
- Bioeconomy and added value

MODULE 6 - 4 HOURS

Challenge and opportunities for economic of climate Change

Ángela Penagos -Universidad de los Andes
Mauricio Alviar - Universidad EIA
Maria Vrachioli - Technical University of Munich
Juan Carlos Muñoz-Mora - Universidad EAFIT

- Public policy and climate change strategies: Challenge in the future in Colombia
- New methodological approaches (ML, Non-stadarized data set analysis)
- Final comments and questions

WHO CAN APPLY

The summer school is open to all motivated graduate students in Economics and related areas, practitioners, and advanced Bachelor's students.

MININUM REQUIREMENTS

In order to apply for the Summer School, you must provide:

- A motivation letter explaining why you are a good candidate (2 pages max.).
- Short CV.
- As all activities will take place in English, we expect good English skills in writing.

COST

The summer school is free of charge and is fully funded by the Academic Network for Evaluating the Impact of Climate-Smart Agriculture in Colombia - NET-CSA-, a project funded by the German Federal Ministry of Education and Research (BMBF) and the Colombian Ministry of Science, Technology and Innovation (Minciencias).

DIPLOMA

All students who deliver the final project and fulfill the attendance requirements will receive a diploma.

INFORMATION AND APPLICATIONS

For further information and submission of applications please contact Yazari Agudelo at yagudeloc@eafit.edu.co.

CLIMATE CHANGE IS NO LONGER SOME FAR-OFF PROBLEM: IT IS HAPPENING HERE, IT IS HAPPENING NOW

Barack Obama

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