



MAKERERE UNIVERSITY

COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

MAKERERE UNIVERSITY CENTRE FOR CLIMATE CHANGE RESEARCH AND INNOVATIONS (MUCCRI)

SHORT COURSE ON 'CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT'

Climate change is one of major human development challenges of the 21st century. The IPCC Fifth Assessment Report (IPCC AR5) observes that since the mid-19th Century, world average temperatures have increased by about one degree (0.85^oC), and continue to rise, as a result of increased Greenhouse gas (GhG) emissions from human activities. Since the 1950's the rate of global warming has been unprecedented compared to previous decades and millennia. It is generally agreed that we will experience considerable and increasing human-caused climate changes in the years to come and that the impact will affect all countries through more extreme weather conditions, such as longer periods of drought, floods, or storms.

While the cause of climate is global through activities that increase GhG emissions, it will lead to different impacts in different countries and regions depending on different economic and environmental condition, and level of vulnerability and ability to cope with the impacts. Since many people in developing countries, Uganda inclusive, are highly dependent on natural resources, they are highly vulnerable to the effects of a changing climate. Therefore, climate change will inevitably affect the development prospects of many developing countries, and the attainment of sustainable development.

There is an urgent need for local and global action through two parallel tracks: adaptation and mitigation. Adaptation because some effects of the climate changes can no longer be avoided and solutions such as new agricultural techniques and adequate infrastructure need to be identified. Mitigation because we need to reduce emission of GhG to reduce the magnitude of the changes. The recent climate change agreement at COP 21 in Paris, France was very encouraging, but also underlined the huge task ahead of us. We urgently need to reduce emission of GhG in order to keep the temperature increase below 2^oC and pursuing efforts to limit the temperature increase to 1.5^oC above pre-industrial levels, as agreed at COP 21. Addressing climate change in the development context not only has the potential to increase climate resilience and reduce poverty but will also contributes to the achievement of the global Sustainable Development Goals (SDGs)

This course provides an introduction to climate change issues in the context of sustainable development. A short learning programme such as this one will not turn participants into climate change experts; however, it will provide an informed platform for engaging in concrete activities in the participants' organizations and jobs. The course highlights the background of climate changes, global and local effects, and looks to the future. The programme will introduce common and individual responsibilities and opportunities, and presents tools and mechanisms for adaptation and mitigation actions at organizational and individual level. Through the course focus will be drawn to the understanding of the relationships between climate change and development and the need and the how to integrate climate change response actions in the development agenda.

Course Objectives

The *overall objective* of the course is that climate considerations are effectively integrated into national and local level development strategies, programmes and projects.

The *immediate objective* is that all course participants are equipped to effectively address climate change in the framework of sustainable development through their jobs.

Couse outcome

This course will enable the participants to:

1. understand the background for climate change globally and locally
2. identify links between climate change, poverty and sustainable development
3. identify good practices for climate change adaptation and mitigation in different sectors, through case studies
4. explore own job functions and role in relation to climate issues and find ways of action.

Couse duration:

One week – 20 - 25th June 2016

Learning approach

The learning process will require active involvement of all participants before, during and after the course. The process will involve the following learning approaches:

- Flipped classroom and e-learning activities at your organization before meeting at Makerere University. This involves online presentations, which provide important introductions to climate change issues. This will allow us to use more time during your stay at Makerere University for debates, exercises and excursions, while still building a solid climate change knowledge platform.
- Class activities (presentations, exercises, debates), excursions, and case-based group work during the learning phase at Makerere University, adding further knowledge and insight to the learning started in participants' organisations, and participant work with organizational Climate Change Action Plan. Before arriving at Makerere University, participants will follow an e-learning course in action planning, and will identify a suitable theme for the plan in close coordination and agreement with their organizations and the course management. The aim of the action plan is to strengthen climate change aspects in the work of participants' organisations.

The above mentioned approaches will promote an environment for acquiring, analyzing, sharing and actively use knowledge of climate change to plan and implement concrete actions

aimed at promoting sustainable development in a changing climate. The e-learning activities in combination with class activities will lay the foundation through an introduction to the newest knowledge. The field excursions will expose the participants to examples of climate change challenges and solutions. In the group work, the participants will work with real-life cases.

Course modules/Modules

- A. Introduction to climate change
- B. Linkages between development and climate change
- C. Sustainable Development in view of a changing climate
- D. Climate change adaptation
- E. Climate change mitigation
- F. Climate change and green growth (green development)

Course Funding:

The fee for this short course is USD 500. This course is funded under a scholarship by a USAID supported project entitled the *USAID/Uganda Education and Research to Improve Climate Change Adaptation (ERICCA)* Activity. ERICCA is designed to help establish the Makerere University Centre for Climate Change Research and Innovations (MUCCRI) as a recognized national and regional hub of academic, professional development and research excellence in climate science, research, climate adaptation, and related disciplines. MUCCRI will charge ERICCA a non-refundable amount of USD 500 per participant for the entire duration of the course. The finding includes study fees, course materials, one field excursion, lunch and refreshments. As way of co-funding, the participants are responsible for providing for their daily transport to commute to and from Makerere University.

Place of Study:

Makerere University, College of Agricultural and Environmental Sciences.

Targeted group

The course does not only target people working directly on climate change. The aim is to create awareness and knowledge of current changes in climate and its potential impacts on various sectors and activities among practitioners working in all sectors affected by climate changes and to present practical tools and ideas for sustainable development action. To that end, the participants may come from different organizations and can be policy and decision makers, academicians and researchers or civil servants in the central or local governments or they may work for NGOs or private companies. Good working knowledge of English is required as well as commitment to participate actively in learning activities before, during, and after the course. You must have access to the internet in order to participate in the e-learning activities prior to

the main course at Makerere University. If possible, we welcome two to three participants from each organization, as it facilitates the work with the action plan and strengthens the learning process during the work back at the organization.

Application and Registration

To register for a course please download and fill the application form found at www.muccri.mak.ac.ug and send a scanned copy of the filled form to the MUCCRI **Secretariat** at the following e-mail address muccri@caes.mak.ac.ug copy to Jackline Ainembabazi at JAinembabazi@fhi360.org.

For further inquiries please contact the MUCCRI Coordinator - Dr. Revocatus Twinomuhangi at rtwinomuhangi@gmail.com.