



BUILDING STRONGER UNIVERSITIES
IN DEVELOPING WORLD



PhD course: 'Agroecosystems and Climate Change' **07th – 12th November, 2016; Sokoine University; Tanzania**

This course is relevant for PhD students, MSc student on advanced level and university staff members – all with interest in research in Agroecosystems and Climate Change.

Course overview:

The course deals with how climate underpins the functioning of agroecosystems, with main focus on mitigation, and less on adaptation. Agriculture is a key part of the climate nexus, both as significant contributor of GHG, but also in its potential to mitigate emissions, mainly through Carbon sequestration and improved practices. Land use changes are also central to GHG emissions. The course aims at the following:

- Introducing the main concept of climate change
- Illustrating and discussing main mitigation measures and their potential, including mechanistic understanding of biogeochemical controllers
- At a case based level, to discuss trade offs and co-benefits of various mitigation measures
- To introduce the concepts of climate change adaptation and discuss threats to various agro-ecosystems in East Africa.
- To introduce the use of climate calculators, simple models to calculate emissions and identify hotspots in systems. The exercise will include a critical discussion of the calculators shortcomings in various systems.

Learning methods and skills development:

- Lectures in class room
- Participatory learning
- Learning in practice through excursion followed by reflection in smaller groups and plenary
- Independent study leading to pre-course assignment and presentation in class
- Development of project proposal

Application procedure:

Please forward an email with the following information to Prof. Reuben Mwamakimullah: mwama60@yahoo.com

- Full name and current affiliation
- Title of study (for MSc and PhD students) or description of work area (for university staff members)
- Motivation to participate in this course (one or two sentences)
- Educational background

We will get back to you within a week after applying. We accept a maximum of 20 participants.

You will receive further details and literature in the third week of September 2016.