



**BUILDING STRONGER UNIVERSITIES
IN DEVELOPING WORLD**



PhD course: 'Holistic Systems Thinking and Analysis' 24th – 28th October; 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 farming and food systems.

Expected learning outcomes

By the end of this course, students should be able to:

- i. Employ holistic systems approach when developing project ideas
- ii. Predict the success or failure and be able to adjust a specified permacultural or agroecological farming system
- iii. Appraise the performance of an agroecosystem operating on permaculture and/or agroecology.

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 25 participants.

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

Course contents:

Systems theory; hard systems flow and soft systems mapping; farm modelling

Resilience of agrosystems through application of permaculture and agroecology

Interaction and relations between human actors in and around the farming system.

Interaction between the production and the management system and farmer family.

The farming system in the surrounding landscape and food system: nutrient and monetary flows.

Theories and principles of permaculture and agroecology

Cybernetics

From farm elements of farming system as part of food systems