Call for Registrants: Quantitative Monitoring and Evaluation course

The University of Rwanda – College of Business and Economics (UR-CBE), African Centre of Excellence in Data Science (ACE-DS) in collaboration with the African Research, Implementation Science, and Education (ARISE) Network and the Harvard University T. H. Chan School of Public Health (HCSPH) wishes to inform PhD students and all interested professionals with strong quantitative backgrounds to register for an advanced course of Quantitative Monitoring and Evaluation to be held at University of Rwanda, ACE-DS from 18th -22nd June 2018 in Kigali, Rwanda.

Overview of Quantitative M&E

Facilitators of the "*Quantitative Monitoring and Evaluation*" course are from the Harvard T. H. Chan School of Public Health and they have developed the course content using materials from their own courses. The aim of this course's implementation in Rwanda is to enhance the capacity of the participants to provide scientific evidence to support (or refute) the efficacy and scalability of public health interventions. The training activities are designed to prepare a new cadre decision makers and public health professionals that can translate research findings into policies and programs, and to bring successful interventions to scale. The course focuses on key concepts for monitoring and evaluating programs toward scale up and policy translation.

Rwanda is going to conduct this initial implementation through support of McGoldrick Professional Development Program in Public Health operating under the aegis of HCSPH and the ARISE Network, in collaboration with the ACE-DS and the Rwandan McGoldrick fellow from UR & and Rwanda Ministry of Health.

Objectives and contents

This course is an introduction to the common and innovative statistical methods used for monitoring and evaluation (M&E). The course uses real data as motivating examples for each topic to allow students to easily digest the concepts in friendly manner. The specific lecture topics are as follows:

1. Introduction to quantitative methods in M&E
2. M&E design: Frameworks for and levels of evaluation and indicators
3. Using statistics to make inference about program – Variability, Inference, Probability
4. Complex survey samples: Design and Analysis
5. Lot Quality Assurance (LQAS) Methods: Introduction, Design and Implementation, Integrating with Survey Sampling
6. Levels of Evaluation
7. Statistical analysis of Clustered and aggregate data

8. Common sources of error (Missing at Random (MAR), Missing Not at Random (MNAR), Pool (Group) Testing)
9. Bias Mitigation (Multiple Imputation, Estimation & Rep Steps, pooling Step and Standard Error, Randomized Response, Annealing, Lying)

Expected learning outcomes

At the end of the course, students will be able to:

- o Identify appropriate sources of data, including the limitations and necessary interpretations.
- o Employ basic to intermediate, but common, statistical tools used in program M&E.
- o Integrate multiple methods for the operation of a comprehensive M&E system.
- o Describe how to extend basic components to more complex M&E methods.

Course Duration

This course will take place over one week, meeting 8 hours per day over five days.

Face to face lecturing is 30 hours, in addition to group discussion and interaction between instructors and students.

The practice exercise known as practicum will take 10 hours for individual student practice on specific projects.

Qualification of participants

The course is designed for individuals with strong knowledge in statistics or other quantitative techniques. The applicant should have minimum experience of 2 years working with data-related projects or M&E.

Award

Candidates that successfully complete this course will be awarded a Certificate of Completion.

Application process

To apply, please send e-mail to Mr. Elias Mutezimana on muteelia@gmail.com with copy to aceds@ur.ac.rw and Dr. Ignace Kabano (kabanoignace@gmail.com).

Documents to be submitted are: motivation letter and CV

Deadline for application: **11th May 2018 at 5:00pm.**

The selected candidates will be notified by 18th May 2018.

Participation Fees

Selected candidates will pay the following participation fees:
- 100,000Frw for Rwandan and East African citizens
- 169,000Frw (equivalent to 200USD) for others

Note: The participation fees are exempted for UR PhD students and UR staff.