

ONLINE COURSE 2025

Food Security and Nutrition Improvement in Africa: Training Future Leaders through Japanese Expertise

The objective of this online course is to foster the next generation leaders capable of contributing to the improvement of food and nutrition in Africa.

Food security and availability, alongside the nutritional value of agricultural produces, is a prerequisite to the health of a fast-growing young African population. Where population is growing and urbanized, the need for food supply becomes an urgent matter to solve while ensuring that consumers have full understanding and access to the information regarding the nutritional value of their foods. In this regard, technology can play a crucial role in providing the right and accurate information to both the growers and the consumers.

An insight on other agricultural systems is an opportunity for the Africa future leaders in the fields of agriculture, environment and nutrition. Japan agriculture being considered as advanced, examples of the agricultural system in Japan will fully provide such insights.

The content of this course will include identifying (with the African students of Sokoine University of Agriculture (SUA, Tanzania) and Jomo Kenyatta University of Agriculture and Technology (JKUAT, Kenya)) some of the constraints to food and nutrition in Africa, suggest possible solutions, introduce the use of information and communications technology (ICT) for improving food and nutrition in Africa, and to introduce the changes in Japan agriculture.

The course will be made of students group discussions and lectures both online and in-person. About 46 participants are expected to join this course. Certificate of completion from Tokyo University of Agriculture will be awarded to those who successfully complete the course.

Number of participants (47)

- ✧ **Tokyo NODAI:** 6 Visiting Students [2 from SUA, 4 from JKUAT]
- ✧ **SUA:** 20
- ✧ **JKUAT:** 20

COURSE SCHEDULE (tentatively); East Africa Time

Date	Activities	Means	Person in charge	Report
October 16 (Wed.) Time: 10:00~11:30	Orientation and Guidance (ALL participants)	Microsoft Teams	All Course Professors, Dr. Megumi SHIO, Fredrick Mussa	No
October 25 (Fri.) Time:10:00~12:00	Lecture 1. Overview of Nutrition and Food Security in Africa	Hybrid from SUA	Dr. Renata Mchongi	Yes (by October 24)
November 1 (Fri.)	Lecture 2. Bioresources, Agricultural Changes and Environment of Japan Agriculture	On-demand lecture	Prof. Dr. Rie MIYAURA	Yes (by November 7)
November 8 (Fri.) Time:10:00~12:30	Lecture 3. Usage of ICTs in Food and Nutrition Improvement in Africa	Hybrid from JKUAT	Dr. Morimoto Yasuyuki et al. (Bioversity, Kenya)	Yes (by November 21)
November 22 (Fri.) Time:10:30~12:00	Online Exchange Event	Online (Microsoft Teams)	<ul style="list-style-type: none"> ● Presenters: Kenya short term exchange program Team ● Presenters: Long term exchange students at Tokyo NODAI 	No
December 5 (Thu.)	Lecture 4. The Effect of Dietary Habit on Health	On-demand lecture	Prof. Azumi HIDA	Yes (by December 4)
December 20 (Fri.) Time: 10:00~11:30	Tenkai Workshop <u>Group Assignment</u> **Identify one common problem related to Food (2 groups) / Nutrition (2 groups) in your communities, suggest possible innovative action(s) or solution(s) to be taken**	Microsoft Teams	Group leaders, Dr. Megumi SHIO, Fredrick Mussa	Prepare Group Presentation
December 21 to January 9	Reflect the lecture 1, 2, 3, 4 and 5 in your ideas discussed during the Workshop	Individual and group preparation	Group Leaders	Submit Final Group Presentation by December 31
January 10 (Fri.) Time: 10:30~12:00	@Group Presentation and Discussion (Tokyo NODAI students will be invited)	Microsoft Teams	All Course Professors, Dr. Megumi SHIO, Fredrick Mussa	No

(*) "Report" refers to the reports all students will submit after each lecture.

NOTE: All participants are required to attend the Orientation and Guidance on October 16.