



Programme for Developing Human Resource to Contribute to SDGs by Merging African Potential and Japanese Scientific Technology

Student Recruitment for The Compulsory Intensive Course “Global Management” 2024









- **University of Ghana (UG)** (Ghana)
- **Addis Ababa University (AAU)** (Ethiopia)
- **Jomo Kenyatta University of Agriculture and Technology (JKUAT)** (Kenya)
- **Meru University of Science and Technology (MUST)** (Kenya)
- **University of Dar es Salaam (UDSM)** (Tanzania)
- **Nelson Mandela African Institution of Science and Technology (NM-AIST)** (Tanzania)
- **Utsunomiya University (UU)** (Japan)








Introduction

The coronavirus (COVID-19) pandemic has impacted on the global economy, and the higher education, especially studying abroad, is significantly affected. To overcome the pandemic and advance the higher education, universities have adopted online learning and started to accelerate digitization.

On the other hand, extensive and strong international cooperation is needed to achieve the United Nations-led SDGs (Sustainable Development Goals) toward 2030.

- This program aims to develop personnel who can contribute to joint activities between Africa and Japan by understanding the potential of local communities and achieving sustainable development based on the social structure. Therefore, in anticipation of the post-corona era, six African universities and Utsunomiya University in Japan will jointly offer the web online course related to Africa, SDGs, and Science.
- The course includes fifteen lectures which will be taken on the web from 3rd June to 19th July. The content will be the basis for mutual study abroad between African universities and Utsunomiya University, and the following lectures will be offered.
- Following the compulsory intensive course, this program will hold the UU-A International Symposium Series and the Student Summit 2025. **Let's join us!!**

Univerisity name	Lecturer name	Title of the lecture (on-demand)	Outline of the lecture (about 100 words)	SDGs	Photo	E-mail Address (change (at) to @)
Jomo Kenyatta University of Agriculture and Technology (Kenya)	Dr. Josiah Mwangi Ateka,	Strategies for empowering women and youth to access agri-food opportunities under the African Continental Free Trade Area (AfCFTA)	<p>The African Continental Free Trade Area (AfCFTA) is one of the most ambitious and progressive trade agreements globally. The initiative aims to expand intra-African trade in goods and services enhancing countries' competitiveness through economies of scale, laying the foundation for deeper market integration and, diversification and regional value chain development. The Agreement also promotes structural transformation, industrialization, inclusive socioeconomic development, and gender equality. The relevance of gender equality is highlighted in the Agreement's preamble, in the general objectives, as well as in the Protocol on Trade in Services which expressly calls for enhancing the export capacity of women and youth. The AfCFTA has the potential to empower women and close gender gaps in agricultural trade and therefore enhance the well-being of households, reduce hunger, boost incomes and strengthen resilience (FAO, 2023). However, systemic gender inequalities constrain women's ability to take advantage of the opportunities offered by the AfCFTA. Women in Africa are key players in agricultural value chains, providing 66 percent of the labour, but are often employed in low-paid low-skilled informal jobs and their participation in international trade is still low (FAO, 2023). They also have higher burdens of domestic and unpaid care, limiting their opportunities for education and employment. Gender inequalities have an impact on trade-related interventions potentially leading to unequal outcomes for women and men.</p> <p>Using lessons from selected Regional Economic (RECs) in Africa, the lecture will discuss, three (3) key interventions with potential to help Women and Youth leverage on the opportunities under AfCFTA;</p> <ul style="list-style-type: none"> •Financial inclusion among women and youth •Trends in cross border agri-food trade (participation of women and youth) •Innovative models for promoting the participation of women and youth in international trade 	SDG 2 (Zero hunger) and SDG 5 (Gender equality)		jateka@jkuat.ac.ke
Meru University of Science and Technology (Kenya)	Prof. Stephen Mutua (PhD)	Data Science for Global Sustainability	<p>The realization of the global Sustainable Development Goals (SDGs) is pegged to a myriad of cross-cutting fields, efforts and global collective strategies. However, the emergence of disruptive technologies and phenomena such as Covid may work for or against the progressive move to SDGs. The emergence and global acceptance of Data Science presents a formidable opportunity in the journey to achieving multiple if not all the SDGs. In fact, Data Science and the SDGs are interconnected in the journey towards a more sustainable and equitable world. Consequently, leveraging the power of data will not only inform policy and invention; but also inform decision making that is based on accurate data, relevance and is time-bound. This lecture therefore seeks to present Data Science a tool for positive change towards making the SDGs into a sustainable reality. As a result, the lecture will address the following; Introduction to Data Science; Nexus between Data Science and SDGs; The Data Science Value Chain; Data Science Pitfalls and Sustainable Data Science.</p>	This lecture addresses the whole realm of the 17 SDGs.		smutua@must.ac.ke
Addis Ababa University (Ethiopia)	Dr. Paulos Getachew (Associate Professor)	Securing Sustainable Food Futures: Integrating Safety with Development Goals	<p>The lecture will underscore the crucial relationship between food security, safety, and SDGs. It will emphasize the need for policies ensuring access to safe and nutritious food while addressing global challenges like foodborne illnesses and contaminants. It will advocate for sustainable agricultural practices that promote both productivity and safety, highlighting the importance of monitoring and regulation throughout the food supply chain. Additionally, the lecture will stress the significance of education and awareness campaigns to empower consumers and producers in making informed decisions regarding food safety. Ultimately, it will emphasize that ensuring food security and safety is integral to achieving broader objectives of the SDGs.</p>	SDGs 2 'Zero Hunger' SDG 6 'Clean water and sanitation' SDG 3 'Good health and wellbeing'		p_getachew@yahoo.com paulos.getachew_t@aaau.edu.et
University of Dar es Salaam (Tanzania)	Dr. Innocensia John	Thinking beyond exotic crops, exploring the forgotten indigenous crops.	<p>Many farmers in the region tend to focus on diversifying their crops through conventional cereal or legume crops, often overlooking the potential benefits of traditional indigenous crops. However, exploring the potential of these crops is crucial as they offer micro-nutrient levels and market potential and ensure food security for households. It is essential to shift our attention from exotic crops and prioritize traditional indigenous crops to improve household dietary diversity.</p>	This lecture speaks to the global efforts enshrined in the sustainable development goals to achieve food security (SDG2) and improve people's welfare (SGD3).		innocensia@gmail.com
Nelson Mandela African Institution of Science and Technology (Tanzania)	Prof. Athanasia Matem	Functional Foods for Health and Disease Preventions	<p>Functional foods (FF) are foods that provides health benefits beyond normal nutrients. Mostly, plant and animal foods are good sources of functional ingredients. Key drivers of FF include consumer awareness, higher medical expenses, an increase in the burden of non-communicable diseases, urbanization etc. Functional foods play an important role in maintaining a healthy lifestyle and risk reduction of diseases such as cancer, cardiovascular diseases, obesity, and gastrointestinal tract disorders (Essa et al., 2023). Developed countries are the global leaders in FF marketing in contrast to the developing world. Thus, this lecture aims to provide insights into the current and future prospects of FF. Further, linking with SDG-2 (zero hunger) and SDG-3 (good health & well-being) from global perspective.</p> <p>1. Essa et al., (2023). Functional foods and their impact on health. J Food Sci Technol. 60(3): 820–834. doi: 10.1007/s13197-021-05193-3</p>	SDG 1: Zero hunger SDG 2: Good Health and Well-being		athanasia.matemu@nm-aist.ac.tz
University of Ghana (Ghana)	Dr. Aduse Poku Samuel	Exploring "Orphaned" and "Underutilized" Crops for Food Security.	<p>Climate change has intensified the incidence of environmental stresses, resulting in a decline in crop yields worldwide. Rapid population growth and the continued loss of agricultural lands have also put immense pressure on global food production systems, making it difficult to meet the food security needs of individuals. "Orphaned" or "underutilized" crops hold great potential for climate-smart agriculture due to their resilience to environmental stresses. These crops could therefore be improved and brought under cultivation to meet the food security needs of the growing population, especially in Africa. This lecture will outline the importance of "orphaned" and "underutilized" crops with an emphasis on their nutritional and agricultural values. The lecture will also discuss how these crops can be exploited and utilized for sustainable agriculture and food security.</p>	SDG 2- Zero Hunger SDG 13- Climate Action		sadusepoku@uq.edu.gh

<p>Dr. Nao IGARASHI (再任・共同教育学部)</p>	<p>Poetry, Language, and the World</p>	<p>Many poets from former British colonies write about social issues, and yet the language they use, English, is in many cases a cause of the problems. This lecture invites students to examine how the poets' complex emotions regarding language, home, and identity are explored and illustrated in their poems. The lecture focuses not only on works of African poets but also on several poems written by the Caribbean and Irish poets. Some common themes in those poems, including the influence of history on the present, will encourage students to understand and overcome inequalities and injustice that still exist in the world.</p>	<p>Goal 5 Gender Equality Goal 10 Reduced Inequalities Goal 16 Peace, Justice and Strong Institutions</p>		<p>nao.igarashi@cc.utsunomiya-u.ac.jp</p>
<p>Dr. Atsushi Nakagawa (地域デザイン科学部)</p>	<p>Conversation Analysis on Decision-Making in Long-distance Caregiving</p>	<p>One of the pressing social issues in the world is how adult children, who no longer live with their parents, can engage in elderly care support, or 'long-distance caregiving (LDC). Previous studies on long-distance caregiving have frequently noted that such distant children often provide less direct physical care, often interact with welfare professionals on behalf of the elderly they cannot directly support and engage in making decisions about the elderly's care. However, while conventional studies on LDC highlight the importance of interaction between distant children and welfare professionals, they have not sufficiently elucidated what challenges exist in this regard and how they can be resolved. Therefore, in this lecture, we will apply conversation analysis, which is one of the scientific methods to analyze interaction, to LDC, aiming to contribute the findings to the field of LDC.</p>	<p>Goal 3: Ensure healthy lives and promote well-being for all at all ages</p>		<p>a.nakagawa@cc.utsunomiya-u.ac.jp</p>
<p>Dr. SATO Takafumi 工学部</p>	<p>Utilization of unused local biomass with environmentally friendly methods</p>	<p>The utilization of unused local biomass resources such as agricultural waste from regional specialty products leads to effective resource utilization and regional revitalization. In this lecture, the efforts to utilize strawberry leaves that is a byproduct of strawberry cultivation is introduced. Strawberry leaves can be used for resources of cookie and additives of plastic film. In addition, the environmentally friendly process is expected for upgrading biomass. Water and carbon dioxide exist in nature and are harmless to humans. The principle of the environmentally friendly technology for upgrading biomass by using high temperature water and supercritical carbon dioxide is also explained.</p>	<p>SGD 12. Responsible Consumption and Production SGD 9. Industry, Innovation and Infrastructure SGD 11. Sustainable Cities and Communities</p>		<p>takafumi@cc.utsunomiya-u.ac.jp</p>
<p>Dr. Lee Perez Fabio (国際学部)</p>	<p>Transnationalism: Sushi and Tacos crossing borders</p>	<p>Transnationalism is a concept to describe the global phenomenon that people, things, money, and ideas transcend national state boundaries. In this class we will overview the general idea of Transnationalism, and reexamine through Anthropological perspective. Next, we will see how food, particularly Japanese and Mexican food, as it crosses through boundaries, it changes its appearance, shape and meaning.</p>	<p>Goal 5 Gender Equality Goal 10 Reduced Inequalities Goal 16 Peace, Justice and Strong Institutions</p>		<p>lee.perez.fabio@cc.utsunomiya-u.ac.jp</p>
<p>Dr. ARJON Sugit (国際学部)</p>	<p>The Dual Nature of Humanitarian Aid in Post-Conflict Reconstruction</p>	<p>This lecture focuses on an exploration of the dual nature of humanitarian aid, examining whether it primarily serves as a temporary measure to secure peace or as a foundational step towards sustainable peacebuilding and development. Moreover, the lecture also discusses the intricate politics underlying aid distribution, including how geopolitical interests shape aid allocation and the consequent effects on peacebuilding efforts and community recovery. The aim of this lecture is to build the awareness of how humanitarian aid works within the ecosystem of post-conflict reconstruction, navigating between immediate needs and long-term development goals while contending with the realities of international politics.</p>	<p>SDG 1 No Poverty SDG 11 Sustainable Cities and Communities SDG 16 Peace, Justice and Strong Institutions</p>		<p>sugit@cc.utsunomiya-u.ac.jp</p>
<p>Dr. SAKAI Yuichi (農学部)</p>	<p>Management of landslide disaster</p>	<p>Landslides occurring in mountainous areas claim many lives and property losses every year worldwide. The occurrence of landslides is also an important issue for forest management in mountainous areas. It is therefore important to take measures to mitigate the damage caused by landslides. Landslides occur when steep slopes collapse due to rainfall or earthquakes, causing damage to dwellings and forests within their reach. Conventional landslide countermeasures are based on such occurrence mechanisms and include structural measures such as check dams and non-structural measures such as hazard mapping and warning evacuation. This lecture explains what specific measures should be taken against landslides.</p>	<p>SDG 11 Sustainable Cities and Communities SDG 13 Climate Action SDG 15 Life on Land</p>		<p>sakai@cc.utsunomiya-u.ac.jp</p>
<p>Dr. Takuya Koyama (農学部)</p>	<p>Plant root and environment</p>	<p>The SDG 2 is about creating a world free of hunger by 2030. To achieve this goal, it will be essential to understand the root system of crops, which is the interface with the soil, in order to reduce the application of fertilizer and adapt to abnormal weather such as heavy rain. In this lecture, we will provide an overview of how roots respond to these stress environments and contribute to yield improvement.</p>	<p>SDG 2- Zero Hunger</p>		<p>koyama@cc.utsunomiya-u.ac.jp</p>

Details of the course

- ✓ **Fifteen web lectures:** In this course, 13 professors from 7 universities will give 13 lectures. This is an unprecedented international cooperation in the new digital age, so please look forward to it.
- ✓ **Course Duration:** 3rd June - 19th July, 2024
The first real-time lecture will be held on 3rd June (Mon) and the final real-time on 19th July (Fri). The other 13 lectures are offered on-demand, so you can take them any time between 3rd June - 19th July.
- ✓ **C-learning:** In the course, we will use the application named "C-learning". Only students who have applied for this course will be informed of the ID and password to access "C-learning". Instructions on how to use "C-learning" will be emailed to students who have registered. So, students who want to attend the course must apply to the person in charge at their university.
- ✓ **Application:** Please inform the person in charge at home university (see the final page "Contacts") with your Name, Student ID number, Master's Program Major and email address.
- ✓ **Application deadline: 8th May.** The lecture materials will be upload to "C-learning" in May, and the ID and password will be notified to the registered students at mid-May.
- ✓ **Tuition fees are free!!**

Details of the course (cont.)

✓ **C-learning:** In C-learning system, students can find several boxes as shown on the right. In “Teaching & Learning Materials”, there are several materials such as videos, PDF files and so on for 15 lectures. Students take 13 lectures at their own convenience from 3rd June to 19th July and then answer “Quizzes” or write a report for “Assignments” .



✓ **Credits:** Equivalent at each home university

The 15 lectures are followed by either a quiz or a report, and students who pass with an overall score receive a certificate of completion, while those with outstanding results receive a further award.

✓ **Students:** Master course students from **any field** are welcome.

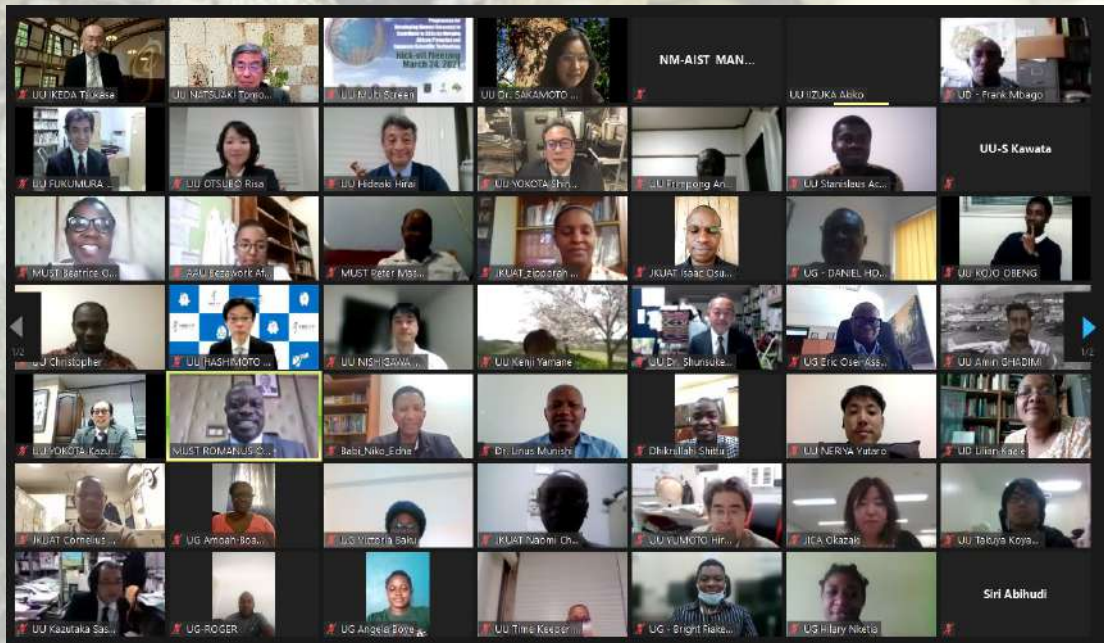
✓ **Capacity:** Maximum 40 or less per university.

✓ **Visit and study in Utsunomiya:** Each African university should select a student who will be invited to Utsunomiya in 2025. The two long-term students (three to 12 months) from **AAU and UDSM**, and the one long-term and three short-term students (less than one month) from JKUAT, NM-AIST, UG and MUST. Selection of long- and short-term students is based on their performance in “Global Management”. Also, a minimum **GPA of 2.30** (using the JASSO calculation method) is required.

Two-way student exchange: This program is a mutual student exchange in which a total of six students from six African universities will be accepted and six students from Utsunomiya University will be sent to Africa.

The video of "The Student Achievement Report Meeting for 2023" by students of the Outbound and Inbound Program is available on the UU-A website: <https://uu-a.utsunomiya-u.ac.jp/2024exchange-en/>

Come and join us!



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