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

Student Recruitment for The Compulsory Intensive Course 2022 of the above Programme

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> University of Ghana (Ghana) > Addis Ababa University (Ethiopia) Jomo Kenyatta University of Agriculture and Technology (Kenya) Meru University of Science and Technology (Kenya) (Tanzania) University of Dar es Salaam Nelson Mandela African Institution of (Tanzania) **Science and Technology** Utsunomiya University (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.

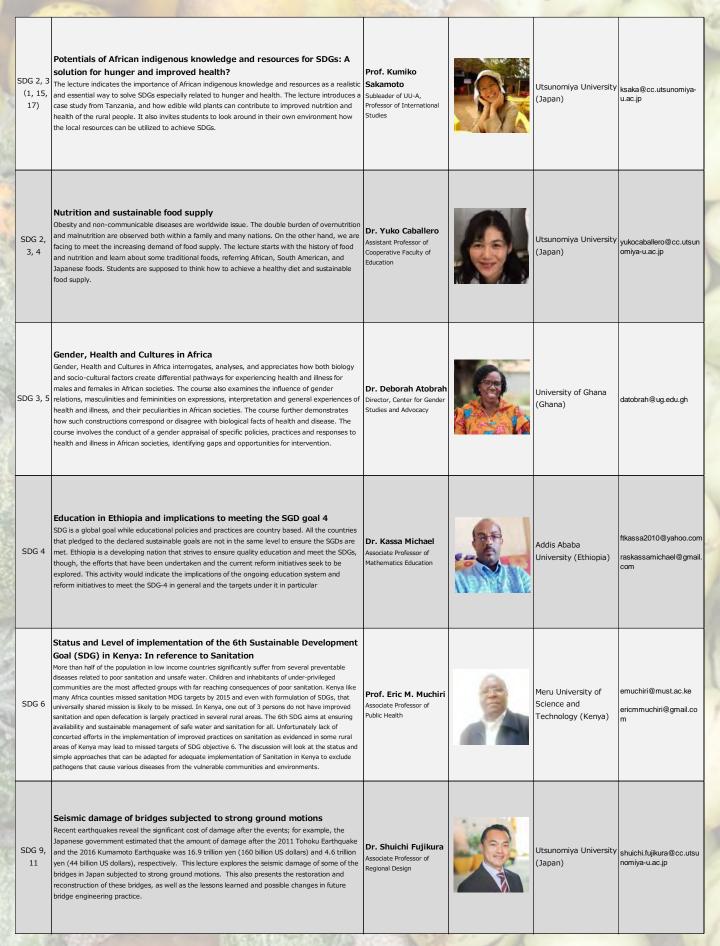
On the other hand, extensive and strong international cooperation is needed to achieve the United Nations-led SDGs (Sustainable Development Goals) toward 2030.

- 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 postcorona 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 sixteen lectures which will be taken on the web from 1st June to 15th 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 <u>UU-A International Symposium</u> <u>Series</u> and the <u>Student Summit 2023</u>. <u>Let's join us!!</u>

Introduction of Lecturers and Topics

SDGs	Title and outline of the lecture	Lecturer	Photo	University	E-mail address
		Prof. Shinso Yokota Team Leader of UU-A, Professor of Agriculture			yokotas@cc.utsunomiya- u.ac.jp
	June 1. Introduction and C-learning tutorial June. Meet your lecturers July 15. Reflection and wrap-up	Dr. Shunsuke Kurihara Associate Professor of International Studies		Utsunomiya University (Japan)	shunsuke@cc.utsunomiy a-u.ac.jp
		Prof. Hiroyuki Yumoto Professor, Center for International Exchange			yumoto@cc.utsunomiya- u.ac.jp
SDG 1, 2, 3, 9, 13, 15	Beekeeping and its value added products Honeybees are kept for their products and service. Primarily honeybees produce honey, beeswax, royal jelly, bee propolis, bee venom, bee pollen and brood. Honeybees are efficient pollinators. Pollination leads to formation of seeds and fruits which is important for life continuity, food security and biodiversity. Some primary products produced honey and royal jelly are used in their raw state. Importantly, Additionally, primary products are used as ingredients to manufacture other products their addition of which enhances their value and quality. All products are used in medicine, cosmetics and food industry.	Dr. Mkabwa LK Manoko Department of Crop Sciences and Beekeeping Technology, College of Agricultural Sciences and Food Technology (CoAF)		University of Dar es Salaam (Tanzania)	mlkmanoko@gmail.com
SDG 1, 2, 3	Contribution of agricultural sector in addressing poverty and food insecurity in Africa The majority of the world's poor live in South Asia, East Asia and Africa with approximately 25% of the below \$1.9/day poor in sub Saharan Africa. While both the extent and severity of poverty and food insecurity have been decreasing in South and East Asia, they have both been increasing in Africa. The United Nations endorsed the Second International Conference on Nutrition (ICN2) Framework for Action and declared 2016 to 2025 a Decade of Action on Nutrition to reduce hunger and malnutrition and meet the SDGs. The Decade of Action aims to provide an umbrella for a wide group of actors to work together to make progress toward SDGs 1 and 2 to end poverty, hunger and malnutrition in all its forms. While agriculture is an important sector in addressing poverty and food insecurity, low productivity and climate change have reduced its potential. This lecture discusses the opportunities and challenges for agriculture in to deliver SDGs 1, 2 and 13 on ending poverty, food security and adaptation to climate change in Africa.	Dr. Robert Mbeche Senior Lecturer Department of Agricultural and Resource Economics		Jomo Kenyatta University of Agriculture and Technology (Kenya)	rmbeche@jkuat.ac.ke
SDG 2	Ecological Pests Management Pest management in Agriculture is a critical issue that compromises crops yield and overall food security. Pest management practices need to critically observe ecosystems functioning and human health and wellbeing. Ecological pest management is one that ensures safety, enhances ecosystem services necessary for natural pest regulation and sustainable food production. This lecture gives an overview of ecological pest management, ecosystem services and their roles in pest management and examples of sustainable pest management approaches. Specifically the lecture will cover biodiversity and its contribution to pest management, conservation biological control, botanical pesticides and its potentials in sustainable pest management.	Dr Angela Gerald Mkindi Agro ecology			angela.mkindi@nm- aist.ac.tz

Introduction of Lecturers and Topics



Introduction of Lecturers and Topics (cont.)

「「「「このないの」」	SDG 9	Optics and Light : Application for industry Sunlight is essential for life-sustaining on earth. Today in the 21st century, optical technology has become an integral part of our lives. It is also one of the important basic technologies that support major Japanese industries. Its applications point out automated driving, virtual reality (VR), augmented reality(AR), display, 3D printer, robot vision, astronomy, environmental sensing, bio-medical imaging and nanotechnology. This lecture starts what light is then introduces how useful optics for industrial products with demonstrations.	Prof. Yukitoshi Otani Professor of Engineering	Utsunomiya University (Japan)	otani@cc.utsunomiya- u.ac.jp	
March County March March St	SDG 10, 17	Seeking Conceptual Universals — Viewing Japanese Figurative and "Untranslatable" Expressions from African Perspectives This on-demand class is for us English-speaking participants an experiment to rethink and examine how much our languages would be helpful to share concepts. We have not a few expressions which seem impossible to translate into another language because of cultural embeddedness. However, we would eventually like to believe that we understand each other based on common humanity. The lecturer, as well as Japanese participants, will bring those Japanese expressions and try to make them make sense. It will be successful if it could be understandable at least, and if it promotes mutual curiosity and understanding among all the participants.	Prof. Kazuhiko Yoshida Professor of International Studies	Utsunomiya University (Japan)	ysd@cc.utsunomiya- u.ac.jp	
A DAVE SHOW A DAVE A	SDG 12, 15	Behavior and Management of Farm Animals Farm animals, such as cattle, buffalos, sheep, goats, pigs and chickens provide us the various kinds of products. They are the valuable agricultural resources, but they are mammals (or birds) like us, and they have the similar central nervous systems and endocrine systems with us, so that there might be some similarities in feeing and emotions among farm animals and us. This lecture introduces the behavioral features of some farm animals, and the effects of management condition on them. In particular, this lecture introduces the behavioral features during the road transportation in goats, and these uses for the markers for stress.	Dr. Masato Aoyama Associate Professor of Agriculture	Utsunomiya University (Japan)	aoyamam@cc.utsunomi ya-u.ac.jp	
A DESCRIPTION OF THE PROPERTY	SDG 12, 15	The limits of consumer practice to achieve SDGs: Contradictions for chicken meat in Japan Despite scientific and technological advances, people are encountering ever greater challenges in figuring out what they should eat. In this lecture, I identify three contradictions that emerge for chicken meat in Japan. Widely held notions of chicken meat in Japan portray imported chicken as bad and domestic chicken as good. This presentation unpacks how Japanese consumers perceive chicken meat and how these popular perceptions diverge from ideas of ethical food prevalent in the global North. Ideas such as ethical consumption are gaining greater recognition, but an overemphasis on consumer practice hazards exacerbating other intractable problems.	Dr. Benjamin Schrager Assistant Professor of Agriculture	Utsunomiya University (Japan)	benjamin@cc.utsunomiy a-u.ac.jp	

SUSTAINABLE GOALS



Details of the course

- Sixteen web lectures: In this course, 16 professors from 7 universities will give sixteen lectures. This is an unprecedented international cooperation in the new digital age, so please look forward to it.
- Course Duration: 1st June 15th July, 2022 The first lecture will be held on 1st June (Wed), the mid-term lecture on the end of June, and the final on 15th July (Fri) on real-time. The other 13 lectures are offered on-demand, so you can take them any time between 1st June to 15th 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 "Clearning" 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 <u>the person in charge at</u> <u>home university</u> (see the final page "Contacts") with your Name, Student ID number, Master's Program Major and email address.
- Application deadline: 30th April. 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.

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 16 lectures. Students take 13 lectures at their own convenience from 1st June to 15th July and then answer "Quizzes" or write a report for "Assignments".



- Credits: Equivalent at each home university
 Students: Master course students from <u>any field</u> are welcome.
- Capacity: Maximum 40 or less per university. Minimum 7 masters students.
- Visit and study in Utsunomiya: It is very difficult to say when we can start to exchange students to study abroad due to the situation of COVID-19, but each university should select students who will be invited to Utsunomiya in 2022-2023. One student will be able to study in Utsunomiya each year, either for a long period (three months or longer) or for a short period (less than one month).





Contact:

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