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UNESCO Chair on  
Research and Education for  
Sustainable Development  
Japan

*Japan Society for the Promotion of Science (JSPS) Core-to-Core Programme  
“Formation of International Center of Excellence to Promote Teacher Education on ESD”*

**Mongolia - Japan Joint Teacher Training Programme for ESD:  
Towards Achieving the Sustainable Development Goals through Education  
Co-organized by National University of Mongolia and Okayama University  
(Okayama, 15 – 18 July 2019)**

## **1. Background**

Education for Sustainable Development (ESD), which UNESCO leads and coordinates globally since 2005, is currently promoted worldwide through the Global Action Programme (GAP) on ESD as well as through the Sustainable Development Goal 4 on education under Target 4.7. ESD is also a vital means of implementation for the 2030 Agenda for Sustainable Development and a key enabler of all the Sustainable Development Goals, as reaffirmed by the United Nations General Assembly in its resolution 72/222.

Okayama University holds the only UNITWIN/UNESCO chair programme on ESD in Asian countries and is a key member of the Okayama Regional Centre of Expertise on ESD (RCE Okayama) established by the United Nations University. It has energetically promoted teacher education for ESD, and in November 2014 at the UNESCO World Conference on ESD, it cooperated with the International Network of Teacher Education Institutions (INTEI) associated with the UNESCO Chair in Reorienting Education towards Sustainability at York University Canada to organize the Eighth International Conference of the network. Moreover, together with RCE Okayama, Okayama University developed its teacher training programmes focusing on pre-service and in-service teachers in cooperation with the Associated Schools Project University Network (ASPUivNet), a network of 20 universities in Japan that works to support UNESCO ASP schools. These tangible results led the Okayama ESD Project to win the UNESCO/Japan Prize on ESD in September 2016.

Building on the above achievements, Okayama University launched the core-to-core programme (2017 – 2019) “Formation of International Center of Excellence to Promote Teacher Education on ESD” with an aim to bring together teacher education institutions from different countries in Asia to jointly develop teacher training programmes on ESD based on Lesson Study, a collaborative approach to learning and professional development for teachers. In addition to Okayama University (Japan) and other universities (China, Indonesia, Lao PDR, Mongolia, Myanmar and Republic of Korea) are the core institutions of the programme. The programme also aims to establish core institutions on teacher education for ESD, create academic networks for ESD and foster future generations of ESD researchers. Through five meetings of the Asian Network to Promote Teacher Education on ESD held in Okayama, Kyoto, Ulan Bator, Toyama and Bandung since June 2017, the programme members have discussed the integration of teacher education and ESD and the development of frameworks and recommendations to reorient teacher education in Asia to address sustainability.

2030 ESD Goal is designed to be for all with no discrimination, highly quality education and life-long learning opportunity will be assured. To make this goal happen, Mongolia takes every action to fully embed the “Global Action Program 2015-2019”. We infused the concept of the Global Action Program into teacher education program (National University of Mongolia), students ESD-GAP knowledge has been increased little amount through attending various ESD projects and various actions to improve teachers knowledge and skills on

ESD-GAP, we focused 4 main issues content framework is being developed as follows:

- Learning content: Global issues – such as climate change – urgently require a shift in our lifestyles and a transformation of the way we think and act. To achieve this change, we need new skills, values and attitudes that lead to more sustainable societies. The topics covered in the curriculum were selected as climate change, biodiversity, risk mitigation, sustainable production and consumption.
- Pedagogy and learning environments: Learning and teaching should implement interventions that focus on learner. Thus, research-oriented learning activities will be implemented. It is based on the concepts of the lesson study to creating learning environment that enables the learner to carry out sustainable activities.
- Learning outcomes: Motivate learning process such as stimulating learning, critical thinking, system thinking, decision-making, responsibility for present and future generations, etc.
- Societal transformation: Modify the learning environment in which each student develops a sense of belonging to the society he or she lives in. Students (childrens) getting sustainable living desire and to address the global and local affairs of the "I am a world citizen".

On the basis of these achievements and identified needs, and in order to further promote international collaboration for advancing teacher education on ESD in Asia region, Okayama University and National University of Mongolia and Mongolian Education, Economy, Environment Research center NPO jointly organized “Mongolia – Japan Joint Teacher Training Programme for ESD: Towards Achieving the Sustainable Development Goals through Education” in Okayama on 15-18 July 2019, supported by the JSPS.

## **2. Objectives**

- 1) Both in-service teachers in Mongolia and pre-service teachers in Japan understand the present situations of ESD with a “whole-community approach” as a new development.
- 2) Based on understanding of the present situations of ESD, participants will design a teaching procedure of ESD.
- 3) Through designing a teaching procedure and giving a mock lesson of ESD, participants understand the process of planning and improvement of ESD lessons.

## **3. Expected outputs**

- 1) Report of understandings on the present situations and lesson-planning of ESD.
- 2) Teaching procedure of ESD.

Participants from Mongolia are expected to actually proceed lessons based on the teaching procedure of ESD they have designed during the seminar. National University of Mongolia and Okayama University will support their practices and do monitoring.

## **4. Participants**

Elementary and secondary school in-service teachers in Mongolia will be invited to Okayama and participate the training programme with pre-service teachers of Okayama University, Japan. The total number of participants is expected to be 10-20.

## **5. Tentative time, Venues and Programme**

15 – 18 July 2019 at Faculty of Education, Okayama University, schools and CLCs practicing ESD in Okayama city, and Ohara Museum of Art in Kurashiki-city, Okayama, Japan

Day 1: opening, observation of community engagement of ESD at Ohara Museum of Art, Kurashiki-city

Day 2: observation of ESD class (1), visit to a community learning centre in Minan school district in Okayama-city, workshop of designing ESD lesson plan (1)

Day 3: observation of ESD class (2), visit to a center for early childhood education and care, in Minan school district, workshop of designing ESD lesson plan (2)

Day 4: workshop of designing ESD lesson plan (3), mock lesson, wrap up, farewell function



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**Programme Schedule**

*Participants are to bring:*

- *The given materials to be read beforehand.*
- *The curriculum policy of her/his school.*
- *Laptop PC (if possible)*

<b>Day 1 (Monday, 15<sup>th</sup>, July)</b>		<b>Venue</b>
9:30 – 9:45	<b>Opening Ceremony</b> MC: Jargalsaikhan Dulguun (National University of Mongolia) Welcome remarks by the organizers and hosts	Room #305 3 <sup>rd</sup> Floor
10:00 – 10:30	<b>Agenda 1: Introduction and orientation to the workshop</b> Introduction and orientation to the seminar by Hiroko Shibakawa, Assistant Professor of ESD Promotion Centre, Graduate School of Education, Okayama University  <i>The session will introduce the schedule of the programme and its aims/goals. Also will there be a short lecture by Dr. Shibakawa to deepen participants’ understanding on ESD in general and</i>	Faculty of Education Okayama University

	<i>its international context, current situation and new challenges of ESD in Japan and Okayama.</i>	
10:30 – 10:45	Break	
10:45 – 11:30	<p><b>Agenda 2: Sharing experiences of teaching/ESD</b>  Facilitator: Jargalsaikhan Dulguun (Mongolia National University); Dulmaa Jamiyan (Coordinator/Translator)</p> <p><i>The participants will share their experience in teaching ESD and their own goals to be achieved through the programme.</i></p>	Room #305 3 <sup>rd</sup> Floor Faculty of Education Okayama University
11:30 – 12:15	Lunch Break	
12:15 – 16:00	<p><b>Agenda 3: Field visit “Integration of social learning and formal education for promoting ESD with the whole-community approach”</b>  Participants will visit a world class fine art museum in Kurashiki city to observe and acknowledge its most advanced educational system, resources and public programs to nurture both children and teachers towards sustainable society. The museum has a long history of contributing to and engagement with the local/global problems. Specifically, the Mizushima area of Kurashiki city was once known for its asthma pollution caused by the large industrial zone. The founder of the museum owns one of the big industrial company in this area, too. On the basis of the critical reflection on this history, citizens in Kurashiki has been making effort to redevelop their town as of rich culture and history as well as natural environment, not of industrial.</p> <p><i>12:15 -13:15 Move to Kurashiki by chartered vans</i>  <i>13:30 -14:00 Introduction by Mr. Hideyuki Yanagisawa, the chief curator</i>  <i>14:00 -15:15 Gallery tour</i>  <i>15:20 -15:45 Lecture by Ms. Shizuka Teramoto, the school program coordinator</i>  <i>15:45 -16:00 Q&amp;A</i></p>	Ohara Museum of Art, Kurashiki City

	<p><i>Participants will learn about Museum's advanced educational programs with various schools. The school program coordinator, with elementary school teacher certificate (science), will give a short lecture to explain efforts and challenges in integrating informal, non-formal and formal education with a viewpoint of ESD. She will also mention about the museum and the public programs as a platform of transformative learning, which is said to be the core of the learning method of ESD.</i></p>	
16:00 - 17:30	<p><b>Guided Tour (50min.) &amp; Sightseeing</b>  Participants will visit the historical area around the museum to explore the sustainability of its history, culture and environment. Kurashiki city is known for civic effort to preserve its historical buildings and houses along the river from the Edo period. It has been attracting many tourists from all over the world. However, according to the rapid development based on commercial industry, the town has many challenges e.g. many towering buildings surrounding the historic area that may not be preferably matching the bikan historical area, the aging shopping arcades beside the popular zone. There are many good practices of civic engagement to challenge this local but global issues, too. Participants will see the advanced model of forming a multi-stakeholder community to advance sustainable development here too.</p>	Kurashiki Bikan Historical Area
18:30	Arrival on Campus Hostel (Departing Kurashiki at 17:30 )	
<b>Day 2 (Tuesday, 16<sup>th</sup>, July 2019)</b>		
8:30 – 11:45	<p><b>Agenda 4: School Visit / Observation of ESD Lesson</b>  Participants will visit Minan school district of Okayama city. All public schools in this district are UNESCO Associated Schools since 2012 and they have been feverishly working on promoting ESD in cooperation with the local community.</p> <p><i>08:30-08:45 Introduction by the principal</i>  <i>08:55-09:40 Observing a lesson</i>  <i>09:40-10:25 Observing a school-community garden project</i></p>	Okayama Municipal Minan Junior High School (Grade 7-9 <sup>th</sup> )

	<p><i>10:35-11:35 Discussion with the teachers/community supporters, Q&amp;A</i></p> <p><i>Participants will be given opportunities to view the lesson on the continuity of life titled: “Lesson to Nurture Life”, which is considered to be a very unique and effective ESD programmes implemented in Okayama city area.</i></p>	
11:45 – 12:30	Lunch Break	Minan Nishi Kominkan
12:30 – 13:30	<p><b>Agenda 5: Field visit to CLC (Community Learning Centre/Kominkan)</b></p> <p>Participants will visit CLC nearby the secondary school to acknowledge their collaboration with schools and other activities of ESD. The CLC is playing a critical role to engage local people in varieties of activities e.g. regional disaster prevention, promoting healthier livelihood, or parenthood education. Also they functions as a place to promote and facilitate ESD in the local community.</p> <p><i>Participants will observe the facility and the club activities and will be given explanations by the director/staffs on the general information of the CLC and how they have been cooperate with and support the neighboring schools.</i></p>	Minan Nishi Kominkan
14:00 – 15:00	<p><b>Agenda 6: Reflection on a field visit</b></p> <p>Facilitator: Jargalsaikhan Dulguun and Hiroko Shibakawa</p> <p>Participants will break into groups to exchange opinions for the reflection of their visit to the museum on the previous day and the junior high school / CLC in the morning.</p> <p><i>Group work: Participants will review the field visit against the tentative framework introduced in Agenda 1. Each group will discuss on what types of capacities are important or they feel necessary for the lesson they have seen. Each group will present their ideas in the plenary, based on the ESD teacher education framework.</i></p>	<p>Room #305 3<sup>rd</sup> Floor Faculty of Education Okayama University</p>
15:00 – 15:15	Break	

15:15 – 16:30	<p><b>Agenda 7: Designing ESD lesson plan</b>  Facilitator: Jargalsaikhan Dulguun,  Advisory: Hiroko Shibakawa, Junko Komori (The former-principal of public elementary schools / ESD Coordinator of Okayama ESD Consortium Project by BOE / Lecturer at Chugoku Gakuen University)</p> <p><i>Participants will start making a possible ESD lesson plan of the subject that they are teaching, regarding the common theme: “the continuity of life.”</i></p>	Room #305 3 <sup>rd</sup> Floor Faculty of Education Okayama University
<b>Day 3 (Wednesday, 17<sup>th</sup> July 2019)</b>		
8:30 – 11:00	<p><b>Agenda 8: School visit / ESD lesson Observation</b>  Participants will visit a public elementary school in Minan Area (UNESCO Associated School) and observe a practical out-door lesson based on the concept of “the continuity of life”.</p> <p><i>08:30-08:45 Introduction by the principal</i>  <i>08:45-09:30 Observing an ESD lesson (6<sup>th</sup> grade) : “How can we protect our lives together in emergency?”</i>  <i>09:30-10:30 Discussion with the teachers and Q&amp;A</i></p> <p><i>The principal himself will have a special lesson of ESD at the school swimming pool which is also functions as a disaster-prevention drills. The students will get into the water with their clothes on in order to experience how they can protect themselves in an emergency of drowning, since the area is surrounded by the canal streams and large rivers. The students are to think and act to save each other from drowning by utilizing daily items, e.g. plastic bottles or buckets.</i></p>	Okayama Municipal Minan Elementary School (1 <sup>st</sup> – 6 <sup>th</sup> Grade)
10:30 - 10:45	Break ( move to the ECEC next to the elementary school )	
10:45 – 12:00	Participants will observe the ECEC located within the grounds of the elementary school. The educational philosophy of the ECEC is “Sense of Wonder” for their integrated lessons of environmental education, science, culture, fine arts, and sports. They have collaborative programs with the elementary school/JHS and the local community.	Minan Certified Center for Early Childhood Education and Care (ECEC)



12:00 – 12:45	Lunch Break (along with a visit to the park designed for civic engagement of Minan area)	Kurashi no tane (Seeds of Life ) restaurant
12:45 – 13:20	<p><b>Agenda 9: Field visit to the local/private sector for promoting ESD</b></p> <p><i>*There will be a short presentation by and discussion with Mr. Seiichi Aoe, who is a leading person of the area’s civic engagement activities based on SDGs 11. The Kurashi no tane building (company) itself is accredited as one of the local centre for promoting ESD by RCE Okayama. The participants will obtain knowledges on how such a place can be functioning as a place for the local community to promote ESD/SDGs.</i></p>	Kurashi no tane
14:00 – 15:00	<p><b>Agenda 9: Reflection on a field visit</b></p> <p>Facilitator: Jargalsaikhan Dulguun and Hiroko Shibakawa Advisory: Junko Komori</p> <p><i>Participants will reflect the field visit to Minan area and have discussion with other participants to deepen their understanding on the current situations and challenges of ESD with the whole-community approach, on the basis of ESD teacher education framework.</i></p>	Room #305 3 <sup>rd</sup> Floor Faculty of Education Okayama University
15:00 – 15:15	Break	
15:15 – 17:00	<p><b>Agenda 10: Designing ESD lesson plan (Continued)</b></p> <p>Facilitator : Jargalsaikhan Dulguun Advisory: Hiroko Shibakawa, Junko Komori</p> <p><i>Ms. Junko Komori will give a short presentation on her experience as a principal of Japanese elementary school in Okayama and ESD coordinator(teacher trainer). Individual work to plan an ESD lesson with the viewpoint of the continuity of life to be implemented in their representing school. Participants will share their tentative ideas in the plenary and exchange ideas and opinions.</i></p>	Room #305 3 <sup>rd</sup> Floor Faculty of Education Okayama University

**Day 4 (Thursday, 18<sup>th</sup> July 2019)**

9:00 – 12:00	<p><b>Agenda 11: Designing ESD lesson plan (Continued)</b>  Facilitator: Jargalsaikhan Dulguun  Advisory: Hiroko Shibakawa, Junko Komori</p> <p><i>Individual work to plan an ESD lesson with the viewpoint of the continuity of life to be implemented at their representing school in the near future.</i></p>	
12:00-13:00	Lunch Break	University Cafeteria
13:00 – 16:00	<p><b>Agenda 10: Mock Lesson</b>  Facilitator: Jargalsaikhan Dulguun  Advisory: Hiroko Shibakawa, Junko Komori</p> <p><i>Participants will demonstrate their ESD lesson plan, followed by a group discussion.</i></p>	Room #305 3 <sup>rd</sup> Floor Faculty of Education Okayama University
16:00 – 16:30	<p><b>Closing Ceremony</b> MC: Hiroko Shibakawa (Okayama University)</p> <ol style="list-style-type: none"> <li>1) Closing remarks and the awarding of certificates of participation, Dr. Toshinori Kuwabara, Vice Dean, Graduate School of Education, Okayama University</li> <li>2) Closing remarks, Jargalsaikhan Dulguun, National University of Mongolia</li> <li>3) Vote of thanks, Kazutaka Yamada, Okayama University</li> </ol>	