



Kobe College Graduate School of Human Sciences

## Woman Leaders Promoting ESD Based on Local Community

Supported by MEXT Strategic Funds for the Promotion of Science and Technology



### I. Outline and purpose

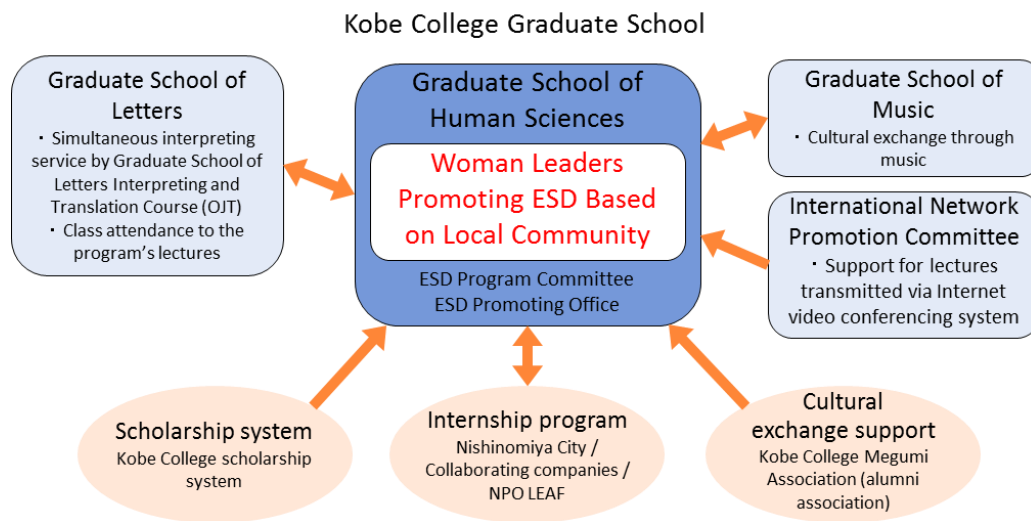
Starting in autumn 2010, we offer a training program for female Asian international students and Japanese students sponsored by the MEXT Strategic Funds for the Promotion of Science and Technology--building training bases of strategic environmental leaders. In this program, female graduate students from Asian countries and Japan study Environmental Science, Human Behavioral Studies, and Biotechnology in order to become ESD (Education for Sustainable Development) leaders in local communities.

The program objectives are to acquire the following four skills:

1. Discover tasks unique to each local community
2. Solve problems while taking into account various perspectives
3. Cooperate with a variety of people
4. Take a leadership role in local communities

The program focuses on allowing women to contribute to the maintenance of environment-friendly local communities by promoting sustainable development. Trainees acquire practical knowledge with global perspectives. In order to achieve this goal, the program offers internships in collaboration with LEAF (Learning and Ecological Activities Foundation for Children), an NPO in Nishinomiya City. In addition, the program offers live Internet lectures given by professors at universities across Asia. Upon completion of the program, trainees will receive a certificate.

## (A) Support system



The program, though offered by the Graduate School of Human Sciences, is supported by the entire college. For example, students taking the Interpreting and Translation Course in the Graduate School of Letters support the program by providing interpreting services, while the Graduate School of Music offers cultural exchange through music. The Kobe College Megumi Association, the college's alumni association, provides psychological support for international students by promoting cultural exchange. In addition, international students can apply for scholarships through the Kobe College scholarship system. The college helps students to receive financial support from various institutions, including the Ministry of Education, Culture, Sports, Science and Technology of Japan, and introduces accommodation near campus.

## (B) International students

In order to apply for the program, students must be female Master's students of a university that has exchanged a memorandum of understanding with Kobe College. Applicants should be studying ESD-related fields and must be recommended by the university at which they are currently enrolled. Recruiting and interviews take place in December through February. Acceptance is decided at the end of March.



The location of Kobe College and home universities of international students.

\* MOU in preparation

## II. Curriculum

(for the schedule see the chart below)

Trainees will acquire the skills necessary to promote ESD in their local communities through the program's lectures and internships. In addition, they will deepen their understanding of environmental pollution and ESD by comparing situations in Japan to those throughout Asia. The program starts in October and ends in September of the following year.

### (A) One-year training schedule

Autumn semester	October	Orientation of the course and the life in Japan	
	November	Lectures (Environmental Pollution and Pollution Control)	
	December	i. [a] Environmental issues and ESD progress in Japan I	2 credits
	January	ii. [c] Environmental issues and ESD progress in Asia I iii. Internship I	2 credits 4 credits
Spring semester	February	iv. Fieldwork	2 credits
	March		
	April	Lectures (Natural Environment and Environmental Education)	
	May	i. [b] Environmental issues and ESD progress in Japan II	2 credits
	June	ii. [d] Environmental issues and ESD progress in Asia II iii. Internship II	2 credits 4 credits
	July		
	August		
	September	iii. Internship III	2 credits

#### i. Relay series of lectures: learning from situations in Japan

- [a] Environmental issues and ESD progress in Japan I (2 credits)  
(Autumn semester: environmental issues and countermeasures in Japan)
- [b] Environmental issues and ESD progress in Japan II (2 credits)  
(Spring semester: ESD promotion in Japan)

These lectures on environmental pollution and ESD promotion in Japan are given by Kobe College faculty members and guest lecturers from outside institutions. During the lectures, instructors discuss the issues with trainees from a variety of perspectives, including environmental science, science and technology, ecological science, health science, economics, social science, and psychology. Lectures are given in English; however, if needed, students from the Interpreting and Translation Course can provide simultaneous interpreting services to promote communication between lecturers and trainees. The lecture series also includes visits to pollution control facilities and other relevant sites.

#### ii. Live Internet lectures: learning from situations in Asia

- [c] Environmental issues and ESD progress in Asia I (2 credits)  
(Autumn semester: environmental issues and countermeasures in Asia)
- [d] Environmental issues and ESD progress in Asia II (2 credits)  
(Spring semester: ESD promotion in Asia)

Kobe College possesses an Internet video conferencing system equipped with a remote simultaneous interpreting function. Through this system, Kobe College classrooms can connect with universities abroad via the Internet. In this series of live Internet lectures, faculty members at collaborating universities throughout Asia give lectures on environmental pollution and ESD progress in their home countries.

#### iii. Internships

- Internship I (4 credits)  
(Autumn semester: participating in NPO environmental education activities etc.)

Internship II (4 credits)

(Spring semester: supporting Kobe College's local community vitalization programs etc.)

Internship III (2 credits)

(Two-week internship during summer break)

Kobe College collaborates with companies engaged in pro-environment business activities, local authorities promoting environmental education, and an NPO conducting environmental education activities for local communities. These institutions conduct various environmental activities involving local citizens. By participating in internships at these institutions, trainees have the opportunity to plan and manage environmental education activities for children and citizens and advance their own research and investigation.

Internship I and II take place mainly in the area of Nishinomiya City as the working field. The city progressively promotes ESD and these internships are conducted with the cooperation of NPO LEAF. Internship III provides opportunities to deepen the trainees' understanding about ESD activities practiced by national administrative organizations and companies in order to nurture broader perspective.

#### iv. Fieldwork

Fieldwork (2 credits)

(During spring break)

Fieldwork is to be conducted as a few days' trip during spring break. Trainees will visit the other area than Nishinomiya City, which is the main field of this program. There, trainees will learn about the nature and culture of the local and actually experience on-site ESD projects. Also they will engage in discussions with volunteers and NPO staff members about ESD promotion based on local communities.



*Fieldwork:  
Forest walk in  
Shirakami  
Mountain Range*



*Fieldwork:  
Reed harvesting in  
Miyagi Prefecture*

### (B) Outline of lectures

[a] Environmental issues and ESD progress in Japan I			[c] Environmental issues and ESD progress in Japan II		
"Current Situation of Environmental Pollution and Countermeasures"			"Natural Environment and Actions for Environmental Education"		
1	Japan's environmental policies	Japan's environmental administration Ministry of the Environment	1	Japan's natural environment	Climate and vegetation of Japan Prof. R. Nozaki (KC)
2		Minamata disease and Itai-itai disease Prof. M. Terashima (KC)	2		Biogeography and biodiversity of animals in Japan Prof. T. Endo (KC)
3		Yokkaichi asthma and Nishiyodogawa environmental pollution Prof. M. Terashima (KC)	3		Conservation of marine environments, and fisheries of Japan Prof. S. Kawai (Koshien Univ.)
4	Japan's history of environmental pollution	HIV-tainted blood products and infected hemophiliac patients in Japan Prof. K. Yokota (KC)	4		Culture and nature - from the view of adaptation Prof. H. Yama (Osaka City Univ.)
5		Environmental pollution as social and economic issues Prof. A. Hata (Shiga Environmental Issues Institute)	5	Natural environment and human	Environmental behavior in social psychology Prof. C. Kobayashi (KC)
6		Aquatic environmental pollution -- from the perspective of environmental science Prof. H. Harino (KC)	6		Nature conservation policy Ministry of the Environment
7	Current situation of environmental pollution	Air pollution -- from the perspective of environmental science Prof. H. Harino (KC)	7		Environmental policies of Nishinomiya City Nishinomiya City
8		Effects of environmental pollutants on wildlife Prof. S. Kawai (Koshien Univ.)	8	Environmental education	Environmental education 1 Prof. S. Miyake (KC)
9		Effects of environmental pollutants on human body Prof. M. Nishida (KC)	9		Environmental education 2 Prof. S. Miyake (KC)
10		Current environmental issues: Waste problem Prof. A. Hata (Shiga Environmental Issues Institute)	10		Actions in Japan Ministry of the Environment
11	Measures against environmental pollution	Current environmental issues: Contamination of soil and ground water Prof. A. Hata (Shiga Environmental Issues Institute)	11	Current situation of environmental education	Cooperation between local areas and Kobe College Prof. Emeritus Y. Yamamoto (KC)
12		Current environmental issues: Global environmental issues Prof. K. Kimura (Ritsumeikan Univ.)	12		Actions in local communities Prof. H. Soeda (Osaka City Univ.)
13	Field trip	Factory tour 1: Leading-edge pollution control facilities Prof. M. Terashima (KC)	13		ESD case examples Prof. H. Soeda (Osaka City Univ.)
14		Factory tour 2: Zero-emission plant Prof. M. Nishida (KC)	14		On-site actions Lake Biwa Museum



*Environmental issues and ESD progress in Asia I:  
Lecture from Yuan Ze University (Taiwan) using the Internet video conferencing system*

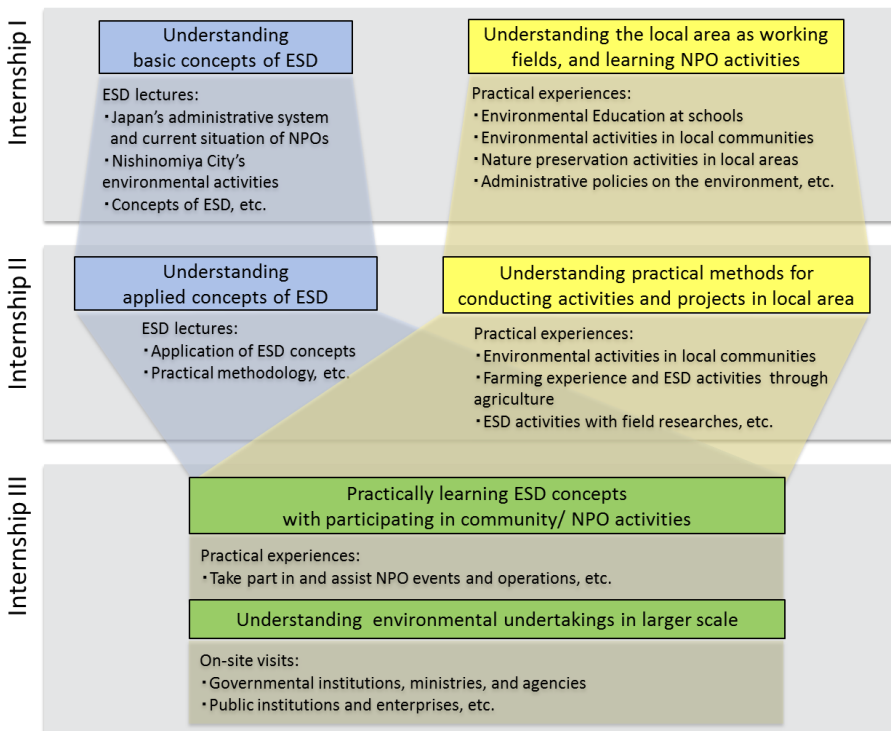


*Environmental issues and ESD progress in Japan II:  
Lecture at Lake Biwa Museum, Shiga Prefecture*

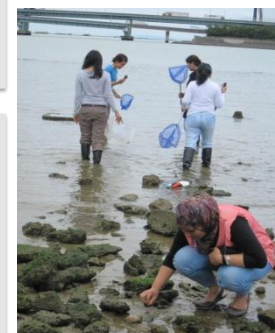
b) Environmental issues and ESD progress in Asia I			
"Current Situation of Environmental Pollution and Measures"			
1	Malaysia	Emerging chemicals of environmental concern	Prof. M. P. Zakaria (Univ. Putra Malaysia)
2		Current pollution status in Malaysia	Prof. M. P. Zakaria (Univ. Putra Malaysia)
3	The Philippines	Brominated flame retardants in breast milk and house dust: implications for human exposure	Prof. M. S. Prudente (De La Salle Univ.)
4		Brominated flame retardants in breast milk and house dust: implications for human exposure	Prof. M. S. Prudente (De La Salle Univ.)
5	Korea	The river quality and the four major rivers restoration project in Korea	Prof. W. Bae (Hanyang Univ.)
6		Food waste management in Korea	Prof. W. Bae (Hanyang Univ.)
7	Taiwan	Preservation of environment in Asia "Heavy metal pollution in Taiwan"	Prof. C.C. Chien (Yuan Ze Univ.)
8		Preservation of environment in Asia "Heavy metal pollution in Taiwan" - Remediation	Prof. C.C. Chien (Yuan Ze Univ.)
9	China	China: Environmental situation, preservation and sustainable development	Prof. G. Lingbiao (South China Normal Univ.)
10		Education for Sustainable Development: our concepts & practice	Prof. G. Lingbiao (South China Normal Univ.)
11	Indonesia	An alarming mercury burden to the environment in Talawaan Watershed, North Sulawesi	Prof. I. F. M. Rumengan (Sam Ratulangi Univ.)
12		The current major environmental pollution in North Sulawesi due to Artisanal gold mining part 2	Prof. I. F. M. Rumengan (Sam Ratulangi Univ.)

d) Environmental issues and ESD progress in Asia II			
"Natural Environment and Actions for Environmental Education"			
1	Malaysia	Natural environment in Malaysia	Prof. M. Abd. Ghani (Univ. Putra Malaysia)
2		ESD movement and environmental education in Malaysia	Prof. M. Abd. Ghani (Univ. Putra Malaysia)
3	China	Community-based ESD at the Pearl river delta of China	Prof. W. Yang (Institute for Sustainable Communities)
4	Vietnam	ESD movement and environmental education in the local communities of Vietnam	Prof. H. Hai (Danang Univ. of Technology)
5		ESD movement and environmental education in the local communities of Vietnam	Prof. H. Hai (Danang Univ. of Technology)
6	Korea	Climate change and biodiversity depletion	Prof. J. Choe (Ewha Womans Univ.)
7		Human nature and welfare	Prof. J. Choe (Ewha Womans Univ.)
8	Indonesia	Pesticides and agricultural crops in Indonesia	Prof. D. T. Sembel (Sam Ratulangi Univ.)
9	The Philippines	Education for sustainable development in the Philippines	Prof. A. P. Galang (Miriam College)
10		Education for sustainable development in the Philippines	Prof. A. P. Galang (Miriam College)
11	Thailand	Sustainable development of water based Bangkok, Thailand	Prof. S. Thadaniti (Kasetsart Univ.)
12		Learning the greatness of mother nature through festival, case of Loy Krathong water festival in Thailand	Prof. S. Thadaniti (Kasetsart Univ.)

### (C) Outline of internship



*Internship I: Farming experience at Kabutoyama Farm*



*Internship II: Observation of aquatic organisms at Koshienhama Beach*

### III. Kobe College

Kobe College, founded in 1875, is a place of higher learning for women with the motto “Love thy god, love thy neighbor.” Based on the teachings of Christianity as well as international understanding, the college is committed to providing a solid liberal arts and science education with small classes. Liberal arts and sciences date back to the systematic Greek and Roman academies of the *septem artes liberales* (seven liberal arts): grammar, logic, rhetoric, arithmetic, geometry, music and astronomy. Kobe College offers diverse curricula to develop broad perspectives and critical thinking skills to nurture independently minded individuals.

#### Graduate School of Human Sciences

The Graduate School of Human Sciences consists of four specialized fields: Clinical Psychology, Human Behavioral Sciences, Environmental Sciences, and Health Sciences. It is a small and interdisciplinary institution, focusing on the cultivation of future female leaders in society. Two of the graduate school’s programs were selected to be sponsored by the MEXT Initiative for Attractive Education in Graduate Schools (2007-2009): “Cultivation of female scientists work for environment and health” and “Training of clinical psychologists skilled to produce practices for local needs”.



Professor Ken Ii  
Kobe College President  
Program Leader



Professor Tomoji Endo  
Dean, Graduate School  
of Human Sciences

#### Access

Kobe College is located in Nishinomiya City.

Both international airports in the Kansai Region are within 60 to 90 minutes of the college.

*From Kansai International Airport:* Take a bus bound for Nishinomiya and get off at Hankyu Nishinomiya-kitaguchi station (about 75 minutes from the airport).

Then take a taxi to Kobe College (about 10 minutes).

*From Osaka International Airport:* Take a bus bound for Nishinomiya and get off at Hankyu Nishinomiya-kitaguchi station (about 50 minutes). Then take a taxi to Kobe College (about 10 minutes).



**Kobe College**

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Cooperating institutions: Nishinomiya city <http://www.nishi.or.jp/>

NPO LEAF <http://www.leaf.or.jp/>

Funding institution: Ministry of Education, Culture, Sports, Science and Technology

