

Kitakyushu University
Graduate School of Environmental Engineering
Graduate School code: 14

Web site: [http://www.kitakyu-u.ac.jp/env/lang_en/index.html]

1. Graduate School code	14	
2. Maximum number of participants	2 participants per year	
3. Fields of Study	<input checked="" type="checkbox"/> Environmental Science <input type="checkbox"/> Marine Science <input type="checkbox"/> Meteorology <input checked="" type="checkbox"/> Natural Disaster/ Disaster Prevention Science <input type="checkbox"/> Tourism <input checked="" type="checkbox"/> Politics <input checked="" type="checkbox"/> Economics <input checked="" type="checkbox"/> Sociology <input type="checkbox"/> Education <input checked="" type="checkbox"/> Engineering <input type="checkbox"/> Agriculture (incl. Fisheries) <input type="checkbox"/> Geology <input type="checkbox"/> ICT <input type="checkbox"/> Medical Science <input type="checkbox"/> Others()	
Sub Fields	Environmental management, systems analysis and treatment technology	
4. Program and Degree	Program	Environment and Resources Systems Course
	Degree	Master of Engineering, Master of Philosophy, Master of Environmental Management
5. Standard time table (Years needed for graduation)	Half a year as a Research Student 2 year as a Master's Student	
6. Language of Program	(1) Lecture: 80% of lecture courses are available in English (2) Text: English text will be provided in addition to Japanese ones (3) Laboratory work: Safety instructions are written in English. Conducting of the research is generally instructed by the supervisor in English. (4) Seminar: Seminars including Japanese students are generally in Japanese, but there are many occasions where foreign students can interact in seminars in English.	
7. Desirable English level and Necessary Academic background	Linguistic Ability	TOEFL iBT 71, ITP-TOEFL 530, IELTS 6.0, preferred, not required
	EJU, IELTS, GRE or else	At least 16 years of academic background or equivalent
8. Prior Inquiry From Applicants (Before Submission of Application Documents)		
9. Website	(1) Graduate School of Environmental Engineering http://www.kitakyu-u.ac.jp/env/lang_en/ (2) The University of Kitakyushu http://www.kitakyu-u.ac.jp/lang_en/index.html	
10. Professors and Associated Professors	Name	Research Subject、Contact (e-mail)、Special message for the Future students
		OHYA Hitoshi Development of recycling technology to recover valuable resources.

	/Professor	Development of the recycling system and its social evaluation.
	FUTAWATARI Toru/Professor	Regional environmental management systems. Comparative study of economic development and environmental issues in East Asia. http://www.kitakyu-u.ac.jp/env/lang_en/faculty/life/tohru_futawatari.html
	MATSUMOTO Toru/Professor	Design/assessment of urban/social systems, Urban environmental management in Asia http://www.kitakyu-u.ac.jp/env/lang_en/faculty/life/tohru_matsumoto.html
	YASUI Hidenari /Professor	Development of emerging biological processes to facilitate renewable energy from waste biomass and wastewaters. Computing and mathematical modeling for wastewater / solid waste treatment systems. http://www.kitakyu-u.ac.jp/env/lang_en/faculty/chemical/hidenari_yasui.html
	ITO Yo/Professor	Development of soil pollution prevention techniques. http://www.kitakyu-u.ac.jp/env/lang_en/faculty/chemical/you_ito.html
	KATO Takaaki /Professor	Environmental policy evaluation, Risk assessment and governance. http://www.kitakyu-u.ac.jp/env/lang_en/faculty/life/takaaki_kato.html
	NOGAMI Atsushi/Professor	Environmental simulation and assessment. Depletion assessment of infrastructural materials in the environment and service life prediction. http://www.kitakyu-u.ac.jp/env/lang_en/faculty/life/atsushi_nogami.html
	TERASHIMA Mitsuharu /Lecture	Modeling and simulation of hydrodynamics including, chemical and physical reaction in water environment system, development of new process
	TSUJII Hiroyuki /assoc. Professor	Business strategy and management on ecologically sustainable development.
	AIKAWA Masahide/Professor	Study on air pollution and acid deposition Study on physical and chemical interaction between air pollutants and precipitation
	FUJII Katsushi /Professor	Study for realizing of user-on-demand energy source used with nature energy storage Analysis, evaluation, and application of basic reaction for chemical material storage from nature energy
11 . Features of University	<p>The University of Kitakyushu was founded in 1946 as a high-level education and research center of foreign affairs. Since then the university has expanded its academic fields. The Graduate School of Environmental Engineering was initiated in 2003 as the think tank of the City of Kitakyushu. The city is known for its innovative environmental policies to overcome water and air pollution in the 1960s and 1970s, and a large scale recycling experiment involving local companies and citizens in the twenty-first century. The city is also assigned with the challenging task of reducing greenhouse gas emissions by 50% from the level in 2005 by 2050 through technology transfer to developing countries and international cooperation. OECD has selected the city in 2011 as Asia's first model city for urban green growth.</p> <p>The University of Kitakyushu together with the City of Kitakyushu provides the best opportunities for learning both the theories of environmental studies and their applications in environmental policies and international aid projects.</p>	
12 . Features of Graduate School	<p>The University of Kitakyushu was founded in 1946 as a high-level education and research center of foreign affairs. Since then the university has expanded its academic fields. The Graduate School of Environmental Engineering was initiated in 2003 as the think tank of the City of Kitakyushu. The city is known for its innovative environmental policies to overcome water and air pollution in the 1960s and 1970s, and a large scale recycling experiment involving local companies and citizens in the twenty-first century. The city is also assigned with the challenging task of reducing greenhouse gas emissions by 50% from the level in 2005 by 2050 through technology transfer to developing countries and</p>	

	<p>international cooperation. OECD has selected the city in 2011 as Asia’s first model city for urban green growth</p> <p>The University of Kitakyushu together with the City of Kitakyushu provides the best opportunities for learning both the theories of environmental studies and their applications in environmental policies and international aid projects.</p> <p>For a successful governance of environmental improvements, government officials require the knowledge and skills in both environmental sciences and management techniques. The Environment and Resources Systems course in the Graduate School of Environmental Engineering at the University of Kitakyushu commenced in 2008 for the creation of such human resources.</p> <p>The Environment and Resources Systems course provides a comprehensive education and research opportunity to understand environmental impact caused by production activities, regional development, civil life, energy consumption, the influences of the environment on human beings and their social environment as well as to acquire the capability to understand the ecosystem and perform investigations, planning, and design for conservation and restoration.</p> <p>Students receive training in the fields of fundamental technologies and techniques including recycle engineering, geographical information systems, environmental assessment, environmental restoration technology, and fundamental management sciences such as environmental policy and international standards. Students also receive practical training in the fields of urban environment management, regional society empowerment, biological conservation systems, and global cooperation for the environment using actual examples such as the industrial complex, “Eco-town,” developed by the City of Kitakyushu, where various kinds of wastes are collected from all over Japan and recycled into valuable items.</p> <p>Following are a few examples of the collaboration with the City of Kitakyushu in the coursework as well as in the special program (See Item 4 at “Special Program”):</p> <p>Environment Bureau</p> <ul style="list-style-type: none"> ◆ Internship courses about municipal surveillance of industrial wastewater and its discharge, the city’s pollution prevention ordinance, including field studies on environment assessment and field studies at Pollution Inspection Center, etc. ◆ Lecture about the city’s experience of overcoming pollution and of becoming a recycling society. ◆ Seminar about international cooperation of environmental issues by the city. <p>Water and Sewer Bureau</p> <ul style="list-style-type: none"> ◆ Introductory lecture about water distribution management and practice of water leakage inspection - at Water Distribution Management Division. ◆ Plant tour and lecture of water purification, experiences of safety inspection of tap water (hygiene test) and observation of plankton in surface water, and learn and feel mold odor -at Water Purification Plants and <p>Water Quality Research Laboratory</p>
<p>13. Features and Curriculum of Program</p>	<p>Features and Curriculum of Program</p> <p>Participants will be provided with the expertise of environmental engineering and management in this graduate educational program, helping them meet the future challenges of sustainable growth in their home countries.</p> <p>Coursework:</p> <p>A team of experienced professors will be involved to tackle environmental problems in both science/engineering and management fields.</p>

Environmental science and engineering subjects cover: (i) material recovery with improved waste and wastewater treatment processes, (ii) chemical analysis for micro pollutants, (iii) computer simulation of future environmental change, (iv) analysis of land use change using geographical information systems, (v) ecosystem survey of water bodies and restoration of aquatic environment, (vi) soil remediation, and (vii) cleaner production and operation methods in factories. Environmental management subjects cover (i) decision making tools for environmental protection with economic/life-cycle analysis, (ii) environmental regulation schemes (iii) institutional reform in local governments, (iv) environmental accounting, and (v) corporate social responsibility.

The subjects in the following PDF are taught in English.

http://education-japan.org/africa/tmp_img/88_02.pdf

Research Work:

This program is designed to create a team of environmental experts who are in charge of each stage of planning, conducting, and reviewing environmental policies. Students are expected to engage in research work on the scientific analysis of environmental problems, the planning of counter measures in engineering fields, the environmental management techniques of implementing and reviewing environmental policies.

Participants are required to write a proficient research paper before they are given a master's degree. The main supervisor and sub-supervisor of each program participant will aid in the writing of a qualified research paper.

- Special study I (3 credits)
- Special study II (3 credits)

Credits Required for Earning a Degree:

Participants are required to earn credits from the following categories.

- (1) Four (4) or more credits from the subjects of the joint courses.
- (2) Twenty (20) or more credits from the major course subjects, in which 8 or more credits are from his/her own course's major subjects, and 4 or more credits are subjects from other courses or other programs.
- (3) 6 credits from research work, i.e. Special Study I, II

Credit Exchange Program:

Kitakyushu Science and Research Park provides a credits exchange program among the graduate schools of The University of Kitakyushu, Kyushu Institute of Technology, and Waseda University.

Academic Meetings:


In order to broaden the perspective and human resource network of the program, participants have access to academic meetings on environmental engineering and management topics held by the professors of the graduate school.

Master's Degree:

After the successful completion of the two-year program, the students will receive one of the following degrees: Master of Engineering, Master of Philosophy, or Master of Environmental Management.

Special Program (SUW):

As an addition to regular coursework, International Leader Training Program for Sustainable Use of Water & Resources (SUW) offers a variety of practical skill training programs to participants.

	<p>Practical training programs of SUW include:</p> <p>(1) Internships programs within Japan or overseas</p> <ul style="list-style-type: none"> - Within Japan: Kitakyushu-city government, private enterprises, NPO's, etc. - Overseas: Investigation on environmental issues in Vietnam, China, or home countries of participating international students. <p>(2) Communication skill training programs</p> <ul style="list-style-type: none"> - Environmental Analysis training - Communication skill training <p>(3) Seminars by professional instructors</p> <ul style="list-style-type: none"> - Researchers within Japan or from overseas - Government officials - Practitioners from private enterprises - Practitioners from NPO's. <p>(4) Presentation opportunities at international academic conferences</p> <p>(5) Environmental education</p> <ul style="list-style-type: none"> - To students - To citizens or communities <p>Participants will have practical teaching opportunities towards undergraduate and/or graduate school students as teaching assistants.</p> <p style="text-align: right;"></p> <p>If you would like to see more information, please access the URL below.</p> <p>http://office.env.kitakyu-u.ac.jp/suw/Annex1UofKitakyushu-LowRes.pdf</p>
<p>14 . Academic Schedule</p>	<p>Following schedule is for October enrolment as a graduate school student.</p> <p>1st academic year</p> <p>Oct 1: Entrance ceremony and orientation of student life and academic affairs.</p> <p>Oct - Feb: 1st semester</p> <p>Apr - Sep: 2nd semester</p> <p>Aug - Sep: Intensive courses</p> <p>Sep: Mid-term research presentation</p> <p>2nd academic year</p> <p>Oct - Feb: 3rd semester</p> <p>Apr - Sep.: 4th semester</p> <p>Aug: Presentation of research results and faculty review</p> <p>Sep: Commencement</p> <p>Please refer to the following PDF for Research Schedule.</p> <p>http://education-japan.org/africa/tmp_img/88_01.pdf</p>
<p>15. Supporting service to International Students</p>	
<p>International Students Support Center for Consulting or counseling about daily life, campus life, cross-cultural adjustment etc.</p>	<p>Help Desk</p> <p>Staffs of International Student Support Center within the Graduate School of Environmental Engineering are available for help in English.</p> <p>Open 8:30-17:15 M-F</p>

Provision of Student Dormitory	<p>1. University of Kitakyushu International Student House: 50 Single rooms, 5,000yens/month, two family rooms, 10,500 yens /month. Air-conditioned private single rooms or family rooms are available. Each room is equipped with kitchenette, toilet, bath/shower, bed, study desk, bookshelf, and hot water. Also available is a meeting room and coin-operated washer in shared area.</p>
Japanese Language Education Program for International Students	<p>Various levels of Japanese language classes are available within the campus in the weekday evenings. Two 90-minute classes each week for regular courses and one 90-minute class a week for other types of courses. Choose or combine from following:</p> <ol style="list-style-type: none"> 1. Regular Japanese lesson courses in various levels (from elementary to advanced) 2. Kanji classes of beginning and intermediate levels 3. Business Japanese courses; and 4. KUMON programs (a unique self-paced learning program with a tutor in the classroom)
Cultural Activities	<p>Various events and activities for international students are offered by the university, local volunteering groups for international students. Those include welcome parties, tea ceremonies, cook-and-chat meetings, bus tours, Bon festival in Yukata (summer “Kimono”, Japanese traditional-style clothing), Mochi (rice cake) pounding and traditional new year dishes experience, summer barbeque parties, and participations to local festivals.</p>
Any special attention to Religious Practice	<p>Muslim considerations (1) Prayers room: available on campus (2) Halal food consideration: - Each dish in the cafeteria has an information card that identifies ingredients for the convenience of religious restriction. - Halal food mart in 5 minutes’ drive. - Halal food wagon visits the campus</p>
facilities (Library etc)	<p>Libraries: In addition to the libraries listed below, students of the Graduate School Environmental Engineering have a free access to almost 10,000 academic journals at his/her the research laboratory.</p> <ol style="list-style-type: none"> 1. Kitakyushu Science and Research Park Library (within the campus) Open 8:00-24:00 M-F, 9:30-18:00 Sa-Su 62 English journal titles in engineering, environmental sciences, and environmental management 2. University of Kitakyushu Library (At another campus of the university) Open 9:15-21:30 M-Sa More than 400 English journal titles in social sciences and environmental management 3. Other libraries Participants have access to a large number of public and university libraries in the Kyusyu area. The libraries include Kitakyushu City Library, Fukuoka Prefectural Library, Kyushu University Library and others. <p>Other Facilities: (1) On campus Sport facilities (*1), cafeteria (*2), travel agency, convenience store, laundry service, ATM, dentist and bookstore. *1: Gymnasium, training gym, tennis courts, and soccer field (some equipment available) *2: Open 10:00-19:30 Mon-Fri, 11:00-14:00 Sat. Value-priced meal coupon is available. (2) Campus Neighborhood Stores (grocery, hardware, drug, and convenience stores), restaurants, clinics, and hospital, banks, etc.</p>

<p>Please state other particular supporting service you are endeavoring, if any.</p>	
<p>16. Message to Prospective International Students</p>	
<p>Message from University</p>	<p>Environment Resources Systems course undertakes comprehensive higher education & research activities to tackle environmental problems in Asia, through integrated approaches with managements and technologies. Our focus is on water resource and waste-material recycle, which are also mentioned in United Nation's Millennium Development Goal. The graduate students participating in the course will obtain professional skills to formulate policies and plans towards society with sustainable development. You especially learn specialized environment-related knowledge of science/technology for solid waste management, sanitation and sociology. Please refer to the Website for details.</p>
<p>Voice of International Students</p>	<p>I am Enkhtsolmon from Mongolia. Currently, I am third year of PhD student, at Graduate School of Environmental Engineering, University of Kitakyushu</p> <p>I decided to study after hearing that University of Kitakyushu is great opportunity to study the environmental issue and social systems business models, and urban design and planning to achieve the low carbon and sustainable cities.</p> <p>I feel very fortunate that I was able to study under guidance of professors and lab students who were extremely friendly and understanding. My research subject is air pollution of Ulaanbaatar city. The Environmental Systems Course takes a broad view of resources, energy, and environmental and searches for solutions of these pressing problems.</p> <p>The city of Kitakyushu, which has the experience conquered the badly reputed public pollution in Japan, is now aiming to be one of the most advanced Eco-city in the world and has developed the methodology for helping Asian cities reduce carbon dioxide emissions and grow sustainably. I am attended an international seminar on Environmentally Sustainable Cities in Kitakyushu. It was helpful my research and study.</p> <p>Student campus is really quite, clean and calm, which provides a better environment for studying. I make many friends from countries, and its chance to know different cultures.</p> <p>I have also had many opportunities to attend Japanese cultural events including meeting kindergarten kids. Belief, knowledge and skills that obtained at Kitakyushu University will help my future life.</p> <p>I want to say to the future students who are willing to study at Kitakyushu University that Kitakyushu is the best and one of the finest environments for studying.</p>

*Need to submit a recommendation letter written by a professor at university you have graduated from or by an employer / a supervisor from the company you work at.