

Promotion of Industry and Mining Development

【Outline of University Program】

Earth Resources Engineering field

- (i) To foster engineers and researchers having creativity and power of new idea in global scale through sustainable and environmentally adaptive development of energy and mineral resources
- (ii) Provide higher education on earth resources, energy and mineral resources, from exploration to exploitation and utilization , recycling and remediation stages
- (iii) Curriculums on Engineers Ethics, Applied Engineering, Professional Academic Capacity, Sustainable Learning Ability, Communication Capacity, Management Capacity, Internationality, Leadership.

For further info, please refer page 8 of the Application Guideline.

Kyushu University
Graduate School of Engineering

Sub-Program/ Component	Realization of Sustainable Economic Growth and a stable society/Improving of Social and Economic Infrastructure (Promotion of Industry and Mining Development)
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1	University	Kyushu University (National)
	Graduate School	Graduate School of Engineering
	URL of University	http://www.kyushu-u.ac.jp/english/index.php
	URL of Graduate School	http://www.eng.kyushu-u.ac.jp/e/index.html
	Program name	International Master's Program in Earth Resources Engineering
	Degree	Master of Engineering
	Credit and years needed for graduation	30 credits, 2 years

2 . Features of University

The history of Kyushu University dates back to 1903 when Fukuoka Medical College was established as the foundation of Kyushu Imperial University. (The college was legally attached to Kyoto Imperial University at that time). In 1911, Kyushu Imperial University, along with the Colleges of Medicine and Engineering, were established. Since then various reforms have been made to the higher education system in Japan, such as the introduction of a new educational format after World War II and the reorganization of national universities to University Corporations in 2004. The total number of students currently amounts to 18,588, while the faculty members number 2,186. International exchange programs are also greatly encouraged at Kyushu University. With this in mind, the university accepts many overseas students each year. At present there are more than 1,500 international students from about eighty countries studying here. Kyushu University is located in Fukuoka city, which is the largest city of Kyushu island, Japan. <http://www.isc.kyushu-u.ac.jp/g30/aboutus.html>

3 . Features of Graduate School

The School of Engineering was established in 1911 concurrently with Kyushu University and will celebrate its 100th anniversary in 2011. There are over 800 first year undergraduate students and over 3,600 students studying in the undergraduate program, 1,200 students in the master program and 470 students in the doctoral program. Our education goal is to foster engineers and researchers who will support our society with a global perspective and possess high ethical standards. We hope our graduates have not only technical knowledge but also a deep understanding and great awareness about society and the environment. Furthermore, while playing an active role in international society, our graduates should have a well-rounded education such as understanding different cultures and abilities to communicate in various situations. <http://www.eng.kyushu-u.ac.jp/e/index.html>

4 . Features of the Program

Objectives of education and research in the Department of Earth Resources Engineering are to bring up earth resources engineers and to contribute to sustainable and environment adaptable development of mineral and energy resources. These resources are necessary not only for our daily life through supply of electricity, fuels for automobiles and industrial products, but also for supporting fundamental activities of various type industries. At the same time, development of these resources should be carried out with particular care of their effects on environment as

well as its sustainability.

5 . Curriculum Necessary to Obtain to the Degrees

Graduate school consists of master's course and doctoral course. Master's course of two years program consists of advanced lectures on Earth Resources Engineering and research project. Lectures are given in a class of relatively small number of student; 10-15. At the same time, a student needs to conduct his/her research project and write master's thesis. In addition, a student needs to obtain a total of 30 credits to complete the course. A student who has completed master's program shall be conferred a master's degree of Engineering.

http://www.mine.kyushu-u.ac.jp/english/info_daigakuin.html

6 . Academic Schedule

(Autumn Entrance, 2011)

Details for (Autumn Entrance, 2012) have not been decided yet. The following schedule is a reference along 2011.

Application Period: April 25 - May10, 2011

Examination: May 30 - June3, 2011

Results Announced: June 23, 2011

Registration: September 12 – 21, 2011

Entrance Date: October 1, 2011

Entrance Ceremony: . . . 「Reference」

Orientation: 「Reference」

Autumn semester: October 3, 2011 - March 31, 2012

- Classes Start: October 3, 2011

- University Sports Festival: October 8, 2011

- University Festival : November 18 - 21, 2011

- Winter Holiday: December 27, 2011 – January 5, 2012

- Last day of class: January 31, 2012

- Spring Semester: April – August, 2012

- Summer Holiday: August – September, 2012

7 . Facilities

The international students who will be admitted and enrolled at graduate schools located in Ito Campus are eligible.

Dormitory I (on campus housing) All single rooms with furniture; Desk, Chair, Bookshelf, Bed, Shoes closet, Closet, Mini-Kitchen (with small fridge), Air conditioner, Bath/Washroom (with bathtub, shower, toilet, & sink), Interphone, TV terminal, and Internet terminal

<http://www.isc.kyushu-u.ac.jp/supportcenter-e/housing/on/ito/main.html>

Restaurant with ATM, Convenience store, and Book store

*Big Dora: <http://www.isc.kyushu-u.ac.jp/supportcenter/map/on/ito/cafe.html>

*Big Sand: http://shisetsu.jimu.kyushu-u.ac.jp/ippan/saikin/data/H20/ito_bigsand.pdf

Ito Library

<http://www.lib.kyushu-u.ac.jp/libinf/scitech/?skinid=7>

Private Housing Information

<http://www.isc.kyushu-u.ac.jp/supportcenter-e/housing/off/main.html>

8 . List of faculty members capable of guiding JDS fellows

All professors and associate professors in the department can supervise JDS fellows. Their

laboratory names and names are as follows:

Economic Geology, Prof. Koichiro WATANABE

Engineering Geophysics, Assoc. Prof. Hideki MIZUNAGA, Assoc. Prof. Saibi HAKIM

Geothermics, Prof. Sachio EHARA, Assoc. Prof. Yasuhiro FUJIMITSU

Resources Production and Safety Engineering, Prof. Kyuro SASAKI, Assoc. Prof. Masahiro INOUE

Rock Engineering and Mining Machinery, Prof. Kikuo MATSUI, Assoc. Prof. Hideki SHIMADA

Mineral Processing and Recycling, Prof. Tsuyoshi HIRAJIMA, Prof. Keiko SASAKI, Assoc. Prof. Naoko OKIBE

Energy Resources Engineering, Prof. Ryuichi ITOI, Assoc. Prof. Hikari FUJII

9 . Message for Applicants

Our department consists of seven laboratories that special respective research field: Economic Geology, Engineering Geophysics, Geothermics, Resources Production and Safety Engineering, Rock Engineering and Mining Machinery, Mineral Processing and Recycling and Energy Resources Engineering. This wide range of research field can cover technical and engineering topics occurs at respective stage of resource development starting from exploration, production, remediation, and recycling. However, our research interest extends to prediction of natural disaster such as volcanic hazards, utilization of ground heat, urban mining for valuable resources recycling and remediation of contaminated groundwater resources.

As environmental problems related to resource development have become one of the global issues, we need to promote cooperative work and research with overseas organizations and universities. From this point of view, our department is actively accepting graduate students from overseas and carries out joint research with overseas universities.