2006 "The International Priority Graduate Program (PGP)"
- Advanced Graduate Course for International Students -

[1. Profile of the University]

1. University Department	University of the Ryukyus Graduate school of Engineering and Science			
2. President	MORITA Moshin			
3. Address (Headquarters)	Senbaru 1, Nishihara-cho, Okinawa, Japan 903-0213			
4. Contact	Division	Faculty of Engineering		
	Contact Person's Name	HIRATA Takeshi	e-mail	kggakumu@to.jim.u-ryukyu.ac.jp
	TEL./FAX Number	Tel.: +81-98-895-8593 / Fax: +81-98-895-8590		
5. Home Page Address	http://www.u-ryukyu.ac.jp/			
6. Enrollment of International Students in Graduate Schools	124 (include MEXT's Scholarship students: 81)			

[2. Outline of the Course]

1. Course	Asia-Pacific Engineering Design Program
2. Degree	Master's and Doctoral Programs (2+3 years)
3. Graduate Course, Department	Interdisciplinary Intelligent System Engineering Course, Graduate school of Engineering and Science
	(Address) Senbaru 1, Nishihara-cho, Okinawa 903-0213 Japan

4. Collaboration (University, Graduate School, Department)	<Master's Program>
	   Department of Mechanical Systems Engineering
	   Department of Civil Engineering and Architecture
	   Department of Electrical and Electronics Engineering
	   Department of Information Engineering
	      in Graduate School of Engineering and Science, University of the Ryukyus
	<Doctoral Program>
	   Department of Material, Structural and Energy Engineering
	      in Graduate School of Engineering and Science, University of the Ryukyus

5. Quota	Master's Program:5 (includes MEXT's Scholarship Students :Ms. 3) Doctoral Program:4 (" :Dr. 2) (includes Japanese Students: 2)
6. Faculties	76 (Full-time(only for this course): 75, Full-time(at the department offering this course): 1, Part time: 0)
7. Representative of the Program	Job Title: Dean of Faculty of Engineering, Professor
	Name: MIYAGI Hayao

[3. Contents of the Course]

1. Purpose of the Program

The purpose of this program is to produce practical engineers, educators and researchers, with the ability to combine knowledge, technology and understanding to solve real life engineering problems. The students are recruited primarily from Asia-Pacific developing countries, but there are also Japanese students who can contribute to international society. It is our hope that they will adapt what they learn in this program to suit their own home country's situation and needs based on the local environment and society.

2. Contents of Master's Program

In the Master's program, students are instructed in high level specialized knowledge and technology, while keeping in mind the wide variety of social backgrounds.

Specializations are as follows:

(1) Mechanical Systems Engineering: Machinery Material dynamics, Energy control, Industrial process
(2) Civil Engineering and Architecture: Development and assessment of natural and living environment
(3) Electrical and Electronics Engineering: Electric power, Electronic device, Communication systems
(4) Information Engineering: Human brain, Computer science, Communication network, Information media

3. Contents of Doctoral Program

In the Doctoral Program, students study high-level technical information and are supervised in performing high-level research. They are also given a wide range of information about social environment and ethics required for high-level engineers, instructors or scientists.

Specializations are as follows:

(1) Material, Structural and Energy Engineering: Process engineering, Structure design, Disasters
(2) Interdisciplinary Intelligent System: Artificial intelligence, Living environment planning, Data processing

4. Supervised System of Education and Research
(1) Each student is allocated a main supervisor who will guide and lead the student's research.
(2) Supervisors for students are designated from professors or associate professors in the Master's Program, and from only professors in the Doctoral Program.
(3) The official language in all education and research in this program is English.

5. Methods for Recruiting International Students
(1) Asia-Pacific archipelagic countries are the main target of this program, but it is not limited to this.
(2) Recruiting information on the web site is to be enhanced.
(3) Universities who have a relationship with University of the Ryukyus are especially well informed.

6. Selection of MEXT's Scholarship Students
(1) Education, English ability and physical condition are checked via documents and internet interviews.
(2) Applicants for the Master's Program are listed in order of GPA in their undergraduate courses.
(3) Students in the Doctoral Program are not only listed in order of GPA in their Master's program but also scientific achievements are considered.
(4) Relations with University of the Ryukyus, balance of countries and testimony are also considered.

7. Examination and Evaluation System

An administration and evaluation committee exists within the graduate school for the program for the purpose of observing and guiding the selection process, education, grading and research methods, thesis production, student support, and international relations. At the end of each fiscal year, this committee will produce an evaluation of the findings of this inspection process. In addition, they will meet with an informed third party to discuss these findings.

In the final year of this program, an evaluation is also performed concerning in particular the overall results of this program with regard to the formation of a personnel training network within Asia-Pacific countries, security of appropriate future paths for graduates, international relations, and promotion of globalization of the university by contribution to international exchange. These results are also examined by a third party.

8. Expected Results and Follow-up System

Engineers or researchers in manufacturing, construction, energy or communication companies, public workers in technical fields, educators or researches in high-level institutes are the expected courses for the students who have completed this program.   They are expected to return to their own countries to spread their knowledge and technology in a manner that assists their country's social development.

This program is expected to create a human network between Japan and the home countries of students. To continue the network, a strong follow-up system that makes communication between graduate students and the university easy is needed. Through this network, we can provide not only technical support, but also continue international collaborations.