

Course Number	06072
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2006 「The International Priority Graduate Programs (PGP)」

～Advanced Graduate Courses for International Students～

【1. Profile of the University】

①University Department	Shimane University Interdisciplinary Graduate School of Science and Engineering			
②President	HONDA Yuichi			
③Address (Headquarters)	Nishikawatsu 1060, Matsue, Shimane 690-8504, Japan			
④Contact	Division	Chief, International Student Section, Social and International Cooperation Division		
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	TEL/FAX Number	TEL:+81-852-32-6106・FAX : +81-852-32-6481		
⑤Web-Address	http://www.shimane-u.ac.jp/en/			
⑥Enrollment (only Graduate School)	90 (include MEXT Scholarship Students: 41)			

【2. Outline of the Course】

①Course	Graduate Course in Earth Science and Geoenvironmental Science
②Degree	Master course + Doctoral course (2 + 3 years)
③Graduate Course, Department	Department of Geoscience, Interdisciplinary Graduate School of Science and Engineering
	(Address) Nishikawatsu 1060, Matsue, Shimane 690-8504, Japan
④Collaboration (Universities, Graduate courses, Departments)	
⑤Quota	Master course 9 (include MEXT Scholarship Students: 3) (include Japanese : 3)
	Doctoral course 6 (include MEXT Scholarship Students: 2) (include Japanese : 2)
⑥Faculty	27 (Full-time(only for this course):26 Full-time(at the department offering this course): Part time: 1)
⑦Representative of the Course	Job Title: Dean of the Interdisciplinary Graduate School of Science and Engineering
	Name: IMAOKA Teruo

【3. Contents of the Course】

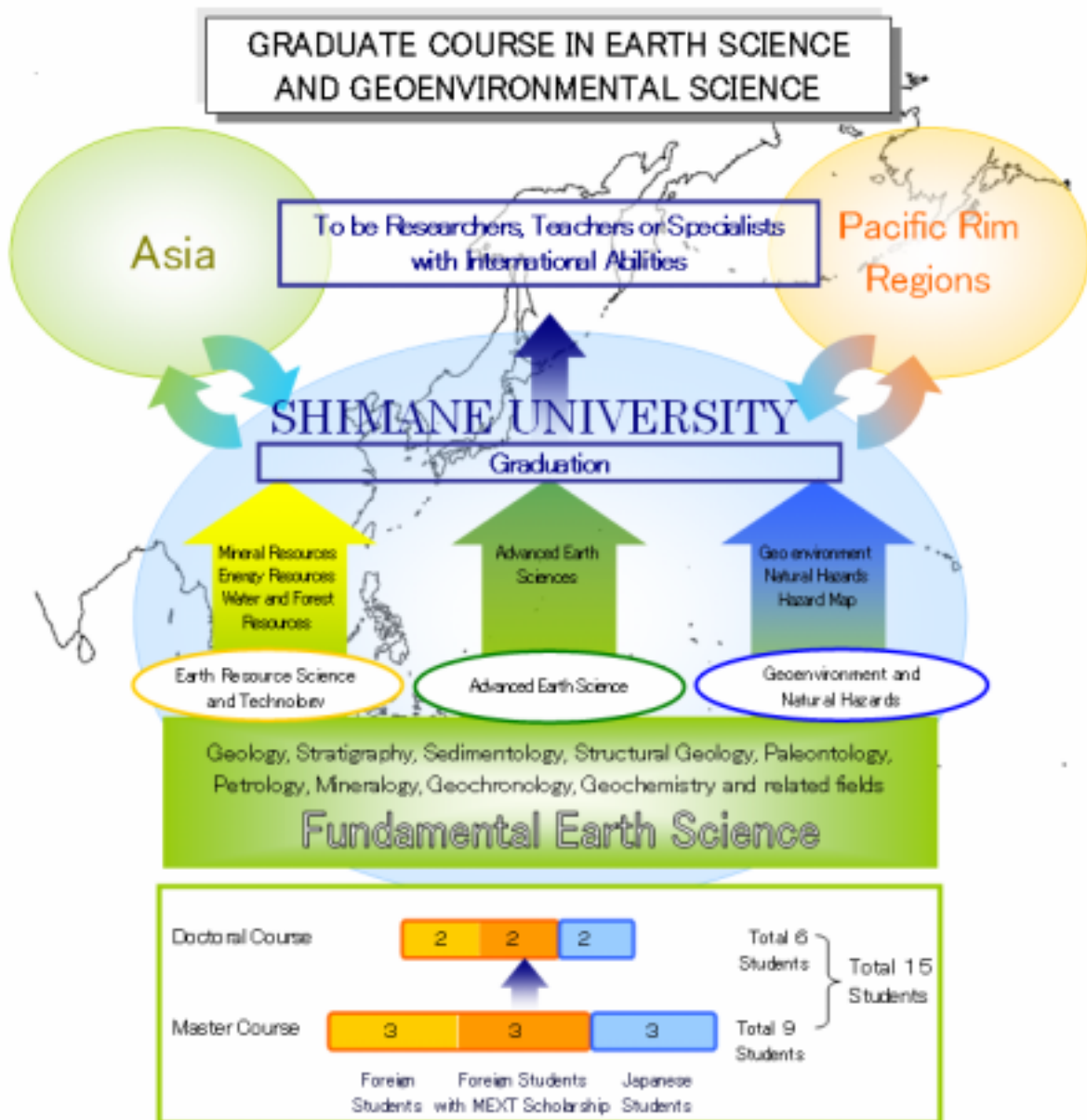
1) General aims of the program

Our graduate program accepts students of excellence from all over the world, especially from Asia and the Pacific rim regions. Japanese students can also be accepted into the program.

Research and education in the graduate program is based on geology and earth science, to solve worldwide problems and to enhance sustainable development of the human world. The aims of the graduate program are to:

- encourage a systematic understanding of earth materials and earth resources;
- to promote better understanding of the mutual relationships among humanity, living things, and the earth from historical and geoenvironmental viewpoints; and
- to establish effective prevention engineering against natural hazards and disasters, based on a wide knowledge of geological processes and environmental changes.

Our graduate program is aimed at producing international-level researchers and technical specialists in the earth sciences, geoenvironmental science, and related fields.



2) Numbers of graduate students per year

	MEXT's scholarship international students	Privately-financed international students	Japanese students	Total
Master course	3	3	3	9
Doctoral course	2	2	2	6
Total	5	5	5	15

3) Term of the programs

For international students the academic year begins in October and ends in September, whereas for Japanese students the year starts in April and ends in March. The terms of the master and doctoral course programs are two years and three years, respectively. Early graduation (after one year or one and half years for the Master's course, and one to two and half years for the doctoral course) is available for exceptional students should they complete the requirements for their course ahead of time.

4) Degrees awarded

Master of Science and Engineering, Science or Engineering;

Doctor of Science, Engineering, or Philosophy

The above degrees will be granted in recognition of successful thesis research.

5) Outline of the courses

Both the Master's and doctoral programs are grouped into three courses, namely Advanced Earth Science, Earth Resource Science and Technology, and Geoenvironment and Natural Hazards. All courses are conducted in English.

Advanced Earth Science

Advanced and international-level research in solid earth science, including geology, paleontology, igneous and metamorphic petrology, mineralogy, inorganic and organic geochemistry, geochronology, structural geology, and geodynamics.

Research of large-scale material circulation and geodynamics from the core-mantle boundary to the surface of the earth, and spanning the period from the birth of the earth to the present day. This includes the evolution of the biosphere, which it is closely related to material circulation and to geodynamics.

Earth Resource Science and Technology

Research on metallic mineral resources such as gold, silver, copper, lead and zinc; non-metallic mineral resources including zeolites, silica sands, feldspars, and clays; and fossil fuel sources such as petroleum, coal, natural gas, and methane hydrate. Research on soils, groundwater, the land and forests from the viewpoint of material circulation at the earth's surface. The occurrence and origin of the above resources, and their evaluation and development.

Geoenvironment and Natural Hazards

Research on natural processes at the earth's surface and their products, including paleo-environments, Quaternary geology; environmental geology and geochemistry, and earth history. Research of natural hazard engineering, including volcanology and volcanic hazards, engineering geology and natural hazards such as slope failures, geotechnical engineering and soil mechanics and their practical application, and subsurface fluid engineering..