



Nagoya University
Graduate School of Environmental Studies



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www.env.nagoya-u.ac.jp/



Adopting a Perspective View Connecting the Earth and Society.

To cultivate diversity extending beyond disciplinary borders.

Today, the Earth's environment is facing a crisis.

Ever-expanding human activities have been imposing intolerable burdens on the Earth and its various regions, disturbing the balance of the natural environment.

Under these circumstances, it is extremely important for us to design the future of human beings with a view to the next 50 or 100 years.

Nagoya University Graduate School of Environmental Studies was established in 2001, providing the first interdisciplinary postgraduate course for environmental studies and education in Japan by integrating various disciplines fully ranging from natural sciences to engineering and social sciences.

The course embraces two specific and unique cross-disciplinary visions as its central concepts – “Sustainability” and “Safety and Security”.

In accordance with these two central concepts, we engage in education and research while promoting collaboration with society.

When dealing with the environment, a key theme, we believe that human and cultural diversity will help to play a significant role.

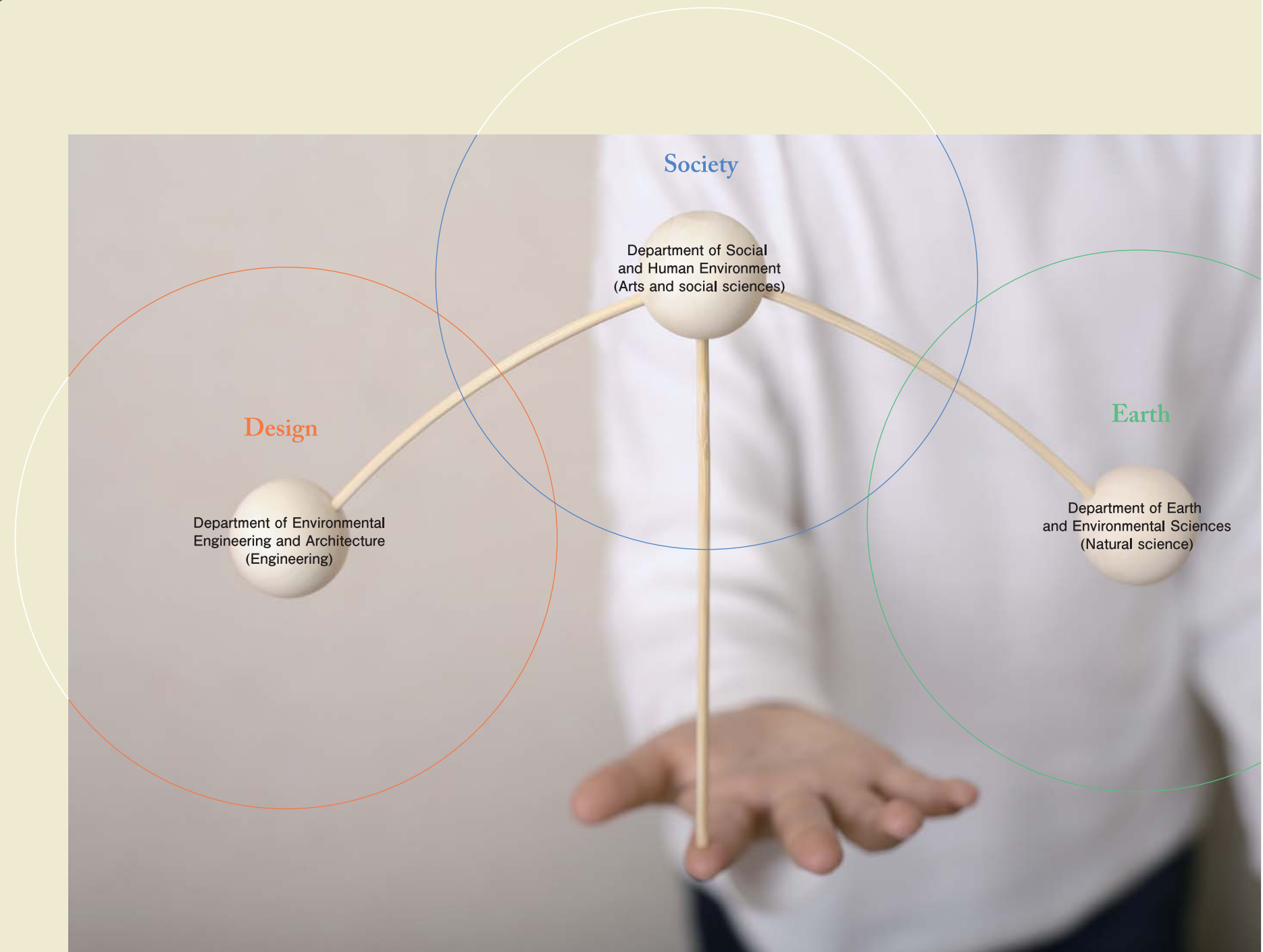
We conduct environmental studies that utilize a broad knowledge-based approach and the appropriate methodology, while increasing our specialized knowledge in the fields of natural science, engineering, arts and social sciences.

We gain a better understanding of the current world situation through social and international collaborative exchanges.

Our cross-disciplinary philosophy aims to interpret and connect the various, complicated elements of the world today and to capture the entire picture.

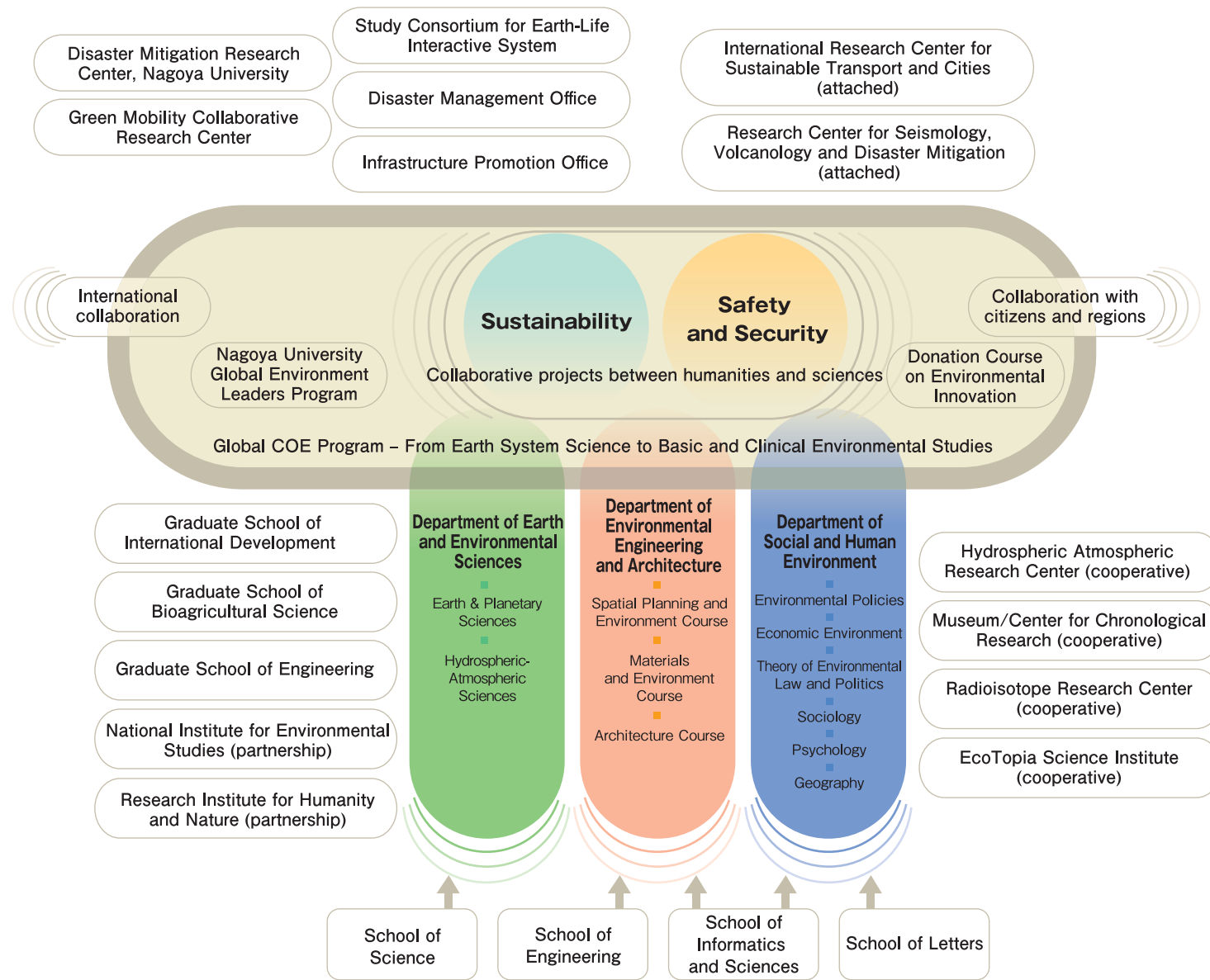
This can be achieved by crossing conventional disciplinary borders and connecting together ideas from different countries, regions and people.

Hoping to play a major role in developing key strategies to avoid a fatal crisis for the global environment, Nagoya University Graduate School of Environmental Studies aims to pass on the human race's accumulated knowledge to the younger generation and cultivate human resources capable of making effective use of such knowledge for the future benefit of the Earth in centuries to come.



Philosophy that connects three fields

The Graduate School of Environmental Studies consists of three departments: "Earth and Environmental Sciences" encompassing the natural environment, "Environmental Engineering and Architecture" encompassing the built environment, and "Social and Human Environment" encompassing the human environment, along with two research centers. All these departments and centers are connected in accordance with the two specific cross-disciplinary visions of "Sustainability" and "Safety and Security".

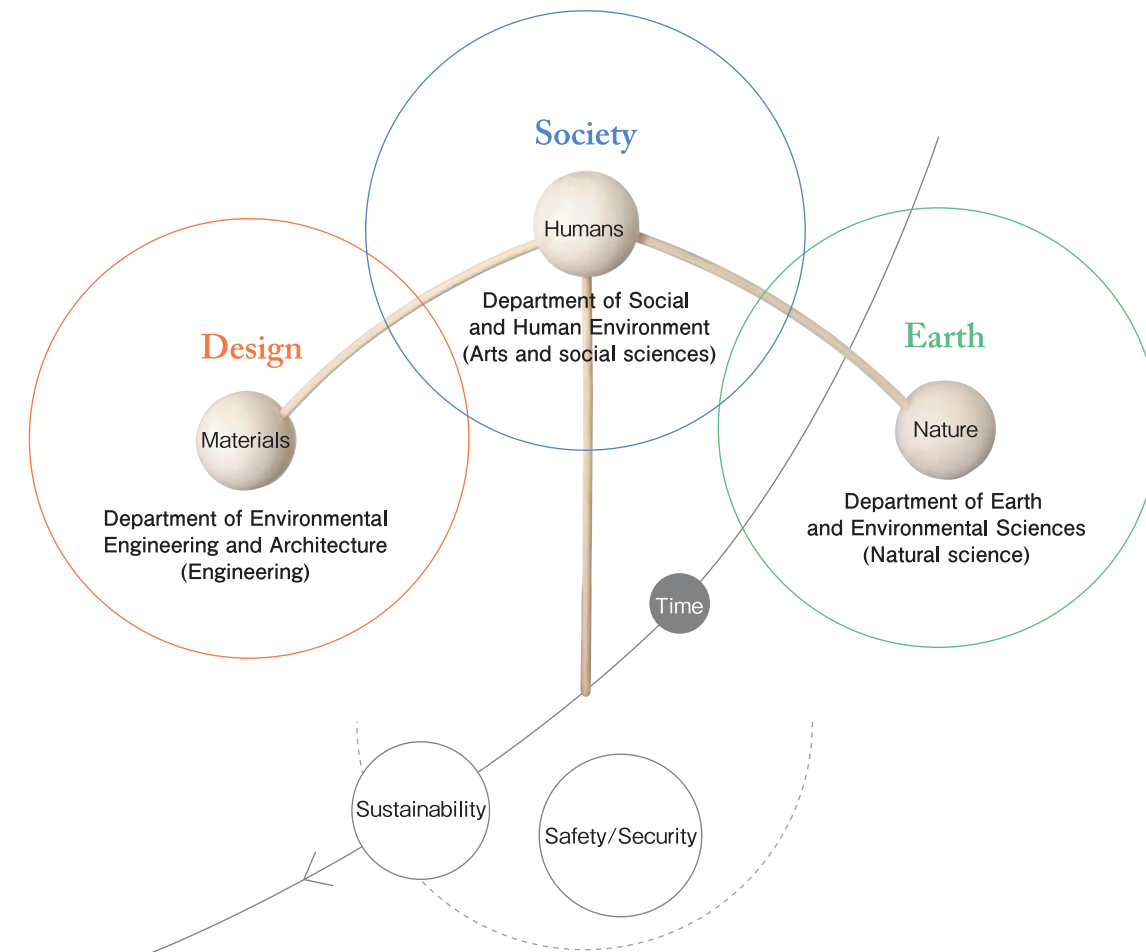


World's top class affiliate professors

The world's best researchers in the fields of global environment and disaster mitigation have been invited to serve as affiliate professors. As a result of collaboration between our full-time and visiting faculty members and the affiliate professors, international progress in education and research on global environmental issues can be realized at the highest level.

Twin main visions: "Sustainability" and "Safety and Security"

Aiming to realize a new human society in harmony with the global environment, the Graduate School of Environmental Studies embraces twin fundamental visions as its central concept. Within this framework, "Safety/Security" represents the static balance between natural and the built environments, while "Sustainability" represents their dynamic maintenance.



Sustainability

The problem of global warming has become increasingly serious and is expected to reveal more seriously as extreme natural disasters, especially in Asia, due to the region's expanding population and accelerating economic growth. Therefore, in order to act as a center of environmental studies in Asia, we cultivate researchers and business people capable of becoming international leaders and who possess a broad understanding of global environmental issues. We have invited Prof. Ernst von Weizsäcker, a German scientist, and several other prominent researchers from around the world to act as our affiliate professors in order to conduct systematic research on global environmental issues in accordance with the vision of "Sustainability".

Safety and Security

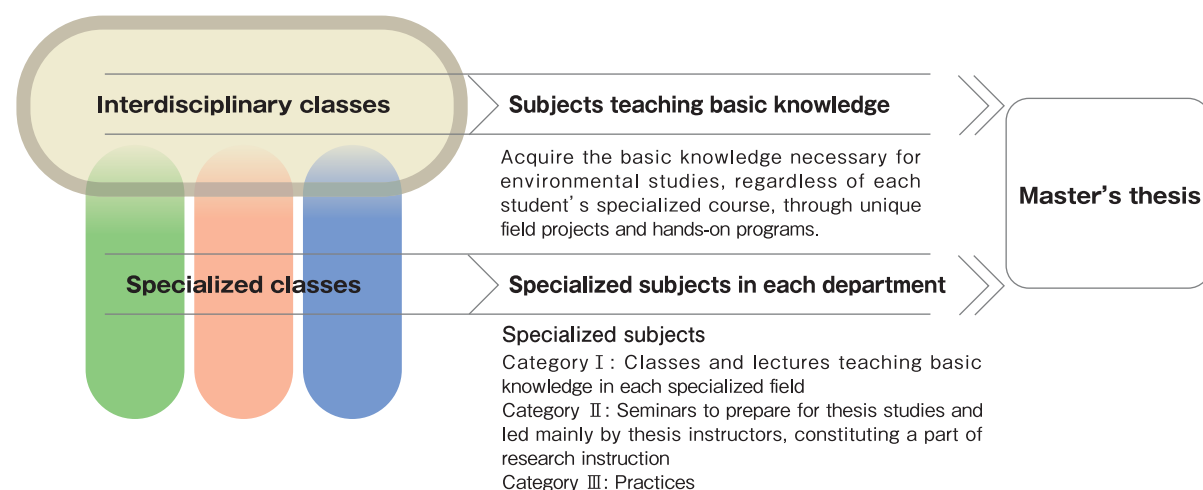
The provision of safe and stable living conditions is the basis of human happiness. Studying "Safety and Security" is one approach to the creation of a safe environment based on human life. One aim of this approach is to form a social system harmonized with the environment by carrying out modifications to the urban environment. The other aim is to conduct studies to help develop a society which is safe from various natural or man-made disasters and criminal acts. Moreover, our researchers in science, engineering and the humanities conduct collaborative research on crisis management in case of a gigantic disaster that exceeds the tolerance level of society.

Gaining a deeper understanding of specialty knowledge and learning about diversity

The Graduate School of Environmental Studies admits students who have acquired basic concepts and knowledge in the fields of natural science, engineering, arts and social sciences, etc. and provides them with the education and research opportunities required in order to cultivate human resources with the appropriate methodology and analytical ability necessary for successful, integrated and cross-disciplinary engagement with “environmental studies”.

We are also committed to promoting educational activities that support ongoing development of the three key academic fields constituting the School. Moreover, a great deal of emphasis is placed on providing education for foreign students in order to develop human resources capable of dealing with environmental issues in various countries and regions, especially in developing nations.

Course features



Subjects teaching basic knowledge (common subjects for all students attending the School)

Doctor's Course

Seminar on Sustainability Studies	English Language Training Seminar I
Classes and Research Instruction in Basic Environmental Studies I	English Language Training Seminar II
Classes and Research Instruction in Basic Environmental Studies II	Special Research Programs
On-site Research Training in Clinical Environmental Studies I	
On-site Research Training in Clinical Environmental Studies II	

Master's Course

Frontiers of Environmental Studies 1	Low Carbon Cities Studies
Frontiers of Environmental Studies 2	Water and Waste Management Policies
Field Seminar on Environmental Studies	Introduction to Biodiversity Conservation Policies
Eco-Business Innovation	Theory of Environmental Resources Management
Population and Environment	Special Lecture on Environmental Studies (English language) 1
Sustainability and Environmental Studies	Special Lecture on Environmental Studies (English language) 2
Studies on Water Environment	Introduction to Earth and Planetary Sciences
Environmental Studies on Natural Resources and Energy	Global Environmental Change
Practical Seminar on Developing Sustainable Local Communities	Housing and Environment
Science and Technology for Disaster Mitigation 1: Understanding Natural Hazard	Environmental Policies and Strategies
Science and Technology for Disaster Mitigation 2: Methodology for Disaster Mitigation	Environmental Ethics
Science and Technology for Disaster Mitigation 3: Practical Actions for Disaster Mitigation (1)	Environmental Law
Science and Technology for Disaster Mitigation 4: Practical Actions for Disaster Mitigation (2)	

Nagoya University Global Environment Leaders Program

A new English master course program, scoping from the areas of climate change to water and waste management and biodiversity conservation, has launched. This program provides training for students to become global leaders in the field of environment, offering not only lectures by professors and experts from major firms but also internships in domestic firms and abroad. We accept 10 foreign students every year, a certain number of whom are exempted entrance and tuition fees.

Admission Policy

The Graduate School of Environmental Studies helps students improve their specialized knowledge in each traditional field relating to nature, cities and society, demonstrating ways to find solutions to various environmental problems by integrating the knowledge of various specialized fields, and encourages them to make use of the results of their studies for the development of each such field.

In order to cover a wide range of environmental issues, the Graduate School of Environmental Studies consists of the following departments:

The Department of Earth and Environmental Sciences, which studies the Earth as a planet, as well as the nature, dynamism and evolution of its surface atmosphere/hydrosphere; the Department of Environmental Engineering and Architecture, which studies the factors affecting the creation of an urban environment, such as social infrastructure and architecture, aiming to ensure harmony with natural environmental factors such as water, plant life and soil;

and the Department of Social and Human Environment, which examines the relationship between human behaviors and their surrounding social environment, and proposes environmental policies.

By means of interdisciplinary collaborations among these departments, we carry out education and research on environmental studies, hoping to bring about the realization of a sustainable and safe/stable society.

■ The Graduate School of Environmental Studies will develop individuals capable of finding their own roles in human society and playing an active role in the international community.

■ The Graduate School of Environmental Studies welcomes applicants with sufficient basic knowledge from both inside and outside Japan. Business people are also welcome.

■ Admission exams for foreign students and business people are also provided.

Available academic degrees

Master's Course		
Department	Available degrees	
Earth and Environmental Sciences	Master's degree (Environmental Studies)	Master (Science)
Environmental Engineering and Architecture		Master (Engineering), Master (Architecture)
Social and Human Environment		Master (Economics), Master (Law), Master (Sociology), Master (Psychology), Master (Geography)

Doctor's Course		
Department	Available degrees	
Earth and Environmental Sciences	Doctor's degree (Environmental Studies)	Doctor (Science)
Environmental Engineering and Architecture		Doctor (Engineering), Doctor (Architecture)
Social and Human Environment		Doctor (Economics), Doctor (Law), Doctor (Sociology), Doctor (Psychology), Doctor (Geography)

Attractive initiative in graduate school education training program

As part of the project's training programs in Germany and the U.S., participants learned about rebuilding programs for cities with a declining population and policies to deal with climate change. In Indonesia, measures for recovery from tsunamis and earthquakes were discussed. In Bangladesh, they joined an NGO in areas suffering from frequent flooding and considered the most appropriate means of assistance. Four of the students who participated in these training programs eventually acquired Doctor's or Master's degrees (Environmental Studies).



Training in Bangladesh
Interviewing in progress at an elementary school

Promoting educational/research projects by means of domestic and international collaborations

Undergraduate/graduate school education today is required to offer intellectual stimulation in an international environment. The Graduate School of Environmental Studies offers collaborative projects that can give concrete shape to the concepts of "Sustainability" and "Safety and Security" in order to develop young researchers and environmentally minded business people capable of playing active roles in the international community, and invites recognized researchers from around the world to promote further collaborations with various universities and research institutions both inside and outside Japan.

Donation course of Shinkin Environmental Business Innovation
 The course was established in January 2010 with donations from seven credit associations whose headquarters are located in the Aichi Mikawa area. Having the common goal to achieve "local contribution" through environmental studies, Nagoya University and the credit associations have contributed a venue where students of the coming generation, Nagoya University-related personnel, local businesses, and the local people meet one another. The aim is to develop a new area of environmental studies and innovation of environmental businesses.

01 Global COE Program - From Earth System Science to Basic and Clinical Environmental Studies

Based on clinical and basic environmental studies, this program cultivates researchers and specialists whose wide visions cover the range from the global environment to regional problems, and propose practical measures to solve them.



Dr. Shukuro Manabe giving a speech at an international symposium organized by the Program

02 Global Environmental Leaders Program

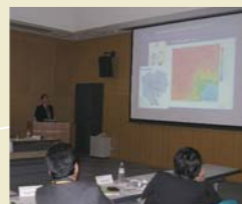
This program is established to foster future environmental leaders in the world. Japanese and non-Japanese students will be accepted in this master's program, which will be offered in English in a unique and systematic educational setting.



Learning practical techniques and know-how at a lecture of "Environmental Industry Systems"

03 Collaboration with National Institute for Environmental Studies and Research Institute for Humanity and Nature

With the new system launched, we have invited collaborative specialists from the National Institute for Environmental Studies and the Research Institute for Humanity and Nature as research instructors.



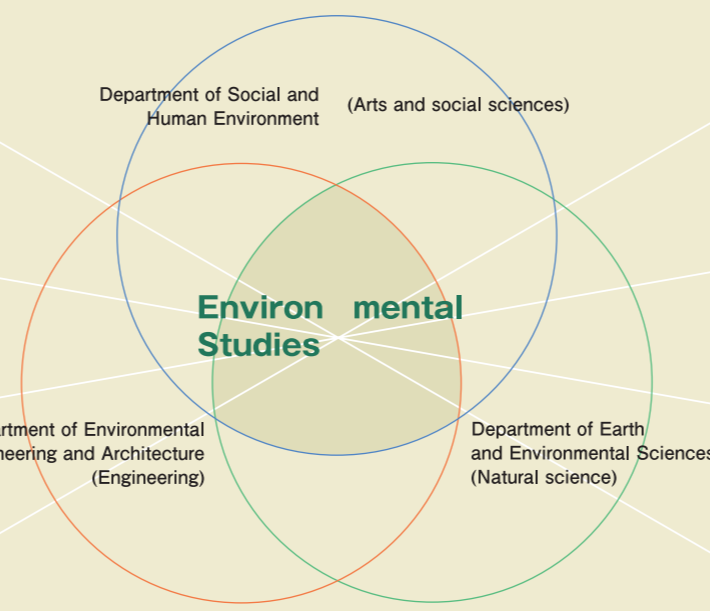
Lecture by Professor Toshiaki Ichinose of the National Institute for Environmental Studies

04 Academic exchanges/partnership agreements

We have concluded academic exchange agreements with the University of California, Berkeley (UCB) and Santa Barbara (UCSB) in order to promote mutual exchanges among students.



Prof. Ernst Ulrich von Weizsäcker (Dean of UCSB) and Prof. Yoshitsugu Hayashi (then), signing an exchange agreement



05 Top class researchers from around the world are invited to give lectures

Top class researchers from around the world, including Ernst Ulrich von Weizsäcker (UCSB), Hans-Peter Duerr (honorary member of the Max-Planck Institut fuer Physik), Shukuro Manabe (Professor emeritus at Princeton University), Shohei Yonemoto and others have been invited to serve as affiliate professors in order to provide graduate students with opportunities to attend their lectures and be inspired.



Prof. Hans-Peter Duerr, teaching the philosophy of sustainability to students

06 Joint Architectural and Urban Design Workshop with ENSA-PVS/GSES-NU

We exchanged a memorandum on academic collaboration, exchange and collaborative educational program with ENSA-PVS in 2009. GSES-NU jointly organizes the Architectural and Urban Design Workshop with ENSA-PVS.



Students presenting their urban design planning of Nagoya Station area

07 Large-scale research on Himalayan glaciers, environmental forum

Since the 1970s, Nagoya University has played a leading role in the study of Himalayan glaciers. In 2007, for the first time in 30 years, a large-scale research project, in collaboration with Asahi Shimbun, was launched to study Himalayan glaciers and the surrounding areas in Nepal, at an altitude over 5000 m.



Research on Himalayan glaciers

08 Chukyo Area earthquake prevention advisory project

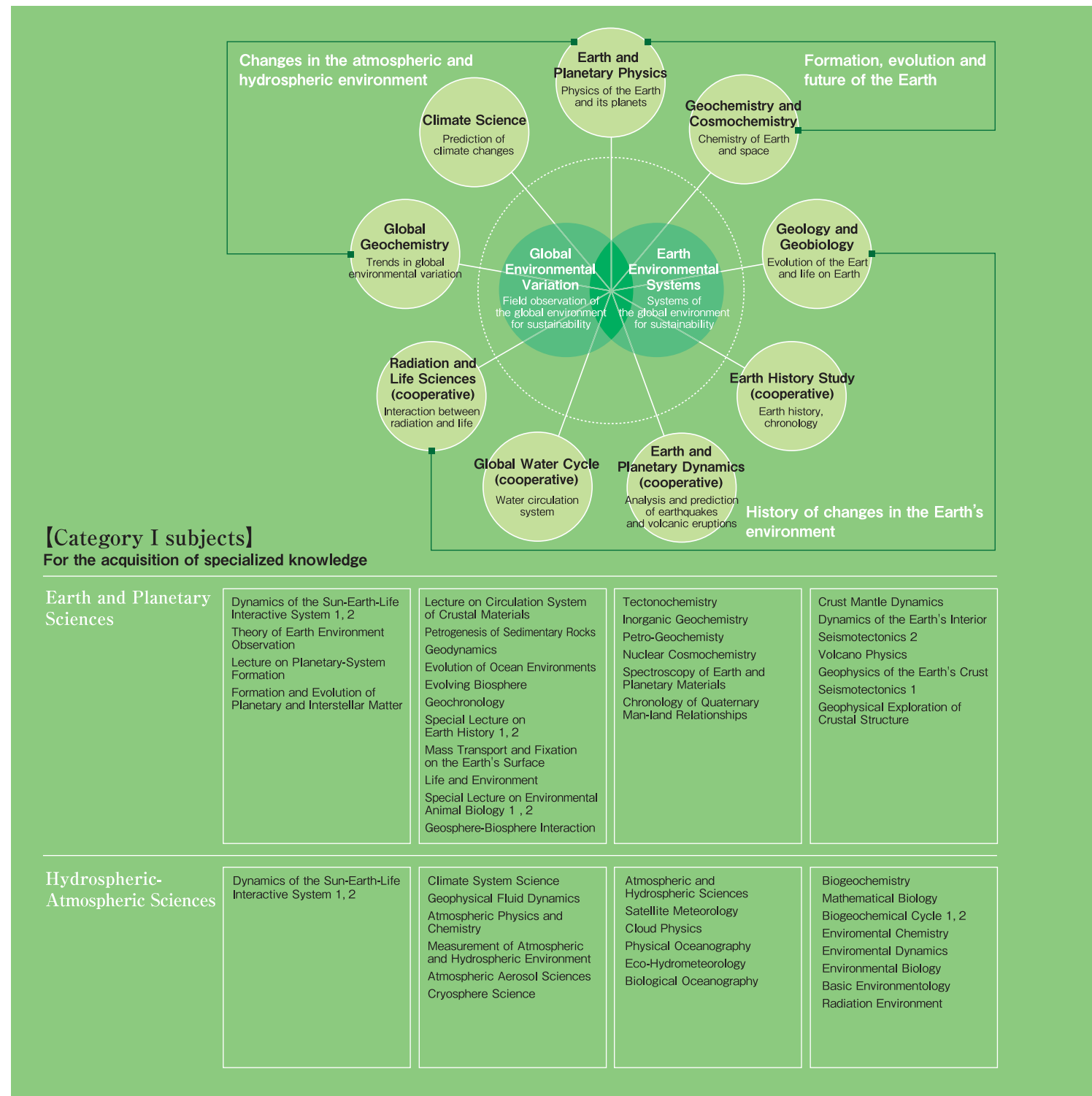
The Graduate School of Environmental Studies is engaged in a project to deal with regional disaster prevention, in accordance with the concept of Safety/Security, in which the School serves as an advisor for the region, acting in cooperation with local governments and residents and aiming to improve the region's disaster prevention capacity by addressing the problem from multiple viewpoints.



Prof. Nobuo Fukuwa explaining the impact of an earthquake to children using a building vibration simulator "Bururu"

Department of Earth and Environmental Sciences

We carry out research and education in the new field of Earth environmental science that considers the entire planet, including human activities, as a single, integrated system. By means of our programs, we aim to develop human resources with the ability to study, evaluate and analyze Earth environments using scientific knowledge related to environmental problems.

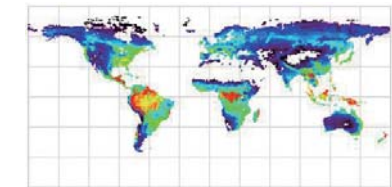


Earth and Planetary Sciences Course

Earth Environmental Systems

Yasushi Yamaguchi / Masao Takano / Yasuhiro Hirahara / Yasuhiro Hirano / Takahiro Sasai

Adopting an Earth environmental system science viewpoint, this laboratory carries out research and education on the Earth's environment, viewing it as a result of interaction between nature and human activities. The laboratory is mainly engaged in the development of methods for observing the Earth and planetary and space environments, using various remote sensing data, the examination of techniques for the analysis of observation data, and education and research on changes in the global environment, visualized by means of a modeling approach. Based on these techniques, the laboratory promotes interdisciplinary research and education programs in collaboration with other groups within the department and with other departments.



Geology and Geobiology

Masaki Enami / Yasufumi Iryu / Simon R. Wallis / Makoto Takeuchi / Atsushi Ujihara / Seiji Hayashi / Itsuki Suto

Based on traditional knowledge of geology and paleontology, this laboratory carries out research and education concerning the Earth's history on a long time scale. The main themes of our research and education are: 1) to analyze the tectonics of the crust and the mantle, as well as their interaction, using analytical methods such as field work and instrumental analysis, focusing on sedimentation, metamorphism, material cycling in the deep Earth, and geochronology, and 2) to analyze the evolution of the biosphere and its interaction with the global environment using analytical techniques in the fields of paleontology, molecular phylogeny, sedimentology and geochemistry.



Geochemistry and Cosmochemistry

Iwao Kawabe / Koshi Yamamoto / Koichi Mimura / Yoshihiro Asahara

This laboratory aims to analyze the global environment, including human activities, using various chemical compounds, chemical elements and isotopes. To accomplish this, it is necessary to trace the history of the evolution of materials, including biological activities, over the past 4.6 billion years since the formation of the solar system. Currently, the laboratory is engaged in research and education in three main fields: 1) cosmochemistry, studying extraterrestrial materials such as meteorites and lunar samples, 2) geochemistry, studying terrestrial materials, and 3) environmental chemistry, studying the interaction between human activities and terrestrial materials.

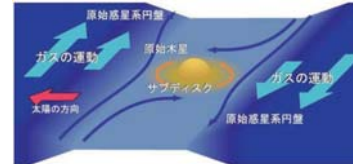




Earth and Planetary Physics

Muneyoshi Furumoto / Seiichiro Watanabe / Hiroaki Katsuragi / Shinichi Shirono / Tomokatsu Morota

The aim of this laboratory's education and research is to explore the origin of the solar system and the evolution/changes occurring on the Earth and other planets by physically analyzing various phenomena relating to the Earth and the other planets constituting the solar system. Three key themes of our research are: 1) to explore the mechanism responsible for the formation and variation of the solar system and the environments of the Earth/planets from a comparative planetology perspective, involving the theory of solar system formation, and 2) to explore the crustal movements, earthquakes and volcanic activities associated with the solid Earth, and the dynamics of the Earth's interior, by utilizing a modeling approach to solid-Earth cycles. 3) to explore the geophysical phenomena from a viewpoint of the fundamental physics of granular matter and soft matter.



Earth and Planetary Dynamics (Research Center for Seismology, Volcanology and Disaster Mitigation)*

Koshun Yamaoka / Fumiaki Kimata / Takeshi Sagiya / Toshiki Watanabe / Keiichi Tadokoro / Yoshiko Yamanaka / Chihiro Hashimoto / Takeo Ito / Haruhisa Nakamichi / Toshiko Terakawa

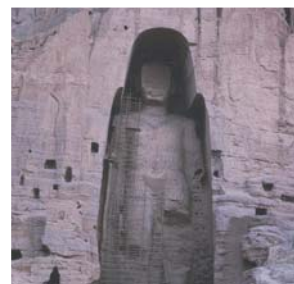
The Japanese islands are located in a subduction zone. Seismology, volcanology and the massive interplate earthquakes experienced in this area represent the dynamic phenomena of the Earth's interior. This laboratory is engaged in the analysis and prediction of crustal activities such as earthquakes and volcanic eruptions, based on the latest observational and theoretical studies. Education for students is provided by the staff members of the Research Center for Seismology, Volcanology and Disaster Mitigation, enabling students to conduct research based on the abundant data obtained using the latest observation facilities and equipment. This laboratory also offers many opportunities for overseas research trips and field observation.



Earth History Study (Museum/Center for Chronological Research)*

Kazuhiro Suzuki / Toshio Nakamura / Hidekazu Yoshida / Tatsuo Oji / Masayo Minami / Takenori Kato / Kanjun Hirunagi / Kazuhiro Tsukada / Hirotaka Oda / Sachiko Nishida / Seiji Kadowaki

The Earth today is a mirror that reflects both the results of various events that the Earth has experienced since its creation and the various possibilities for the future. Our research group explores the Earth's 4.6 billion-year history and various issues related to its future. We engage in various forms of chronological analysis, ranging from the targeting of natural samples such as rocks and fossils through to specific items related to human activities, such as archeological materials and cultural assets, as well as the collection, examination, classification and storage of various natural history samples including rocks/minerals, animals and plants. Our research and education is based on field work.



Classes with* are provided by cooperating institutions.

Hydrospheric-Atmospheric Sciences Course

Global Environmental Variation

Kenji Kai / Takeshi Nakatsuka / Kazuo Osada / Koji Fujita / Akinori Takami / Makoto Taniguchi / Tsugihiko Watanabe / Takanori Nakano

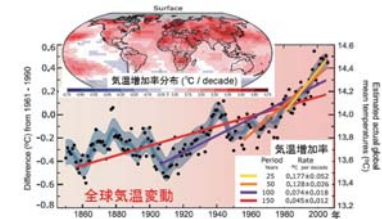
It is important for the survival of human beings that we understand how the global environment has already changed in the past and learn to predict how it will be affected by human activities in the future. The aim of our research and education program is to elucidate past events through the analysis of samples obtained from glaciers and growth rings of trees and understand the present situation through the measurement and analysis of greenhouse gases, aerosol and air pollutants on various scales, ranging from the city level through to that encompassing the entire Earth. Our research also aims to predict future events based on a better understanding of environmental variation mechanisms and human activities.



Climate Science

Hiroshi Kanzawa / Takashi Shibata / Koichi Nishimura / Kengo Sudo / Ippei Nagao / Akiko Sakai / Michihiro Mochida / Toru Nozawa / Akihiko Ito

Global warming associated with recent increases in greenhouse gases is one of the most serious global environmental problems that we face today. To predict future trends in global warming and environmental variations, it is necessary to understand the mechanisms responsible for the maintenance and variation of climate. The aim of this laboratory's basic and applied research/education is to understand the various physical and chemical processes related to climate/global environmental changes, as well as to understand and predict further changes in atmospheric composition, involving greenhouse gases, ozone and aerosols, and cryosphere variations.



Global Geochemistry

Eiichiro Tanoue / Hiroshi Morimoto / Hiroyuki Kitagawa / Osamu Abe / Tamihito Nishida

Biochemical cycles on various time/space scales play an important role in the maintenance and variation of the Earth's surface environment. Aiming to acquire a comprehensive understanding of our Earth, this research group explores the mechanisms and dynamics of biochemical cycles in the atmosphere, hydrosphere and geosphere through field research, laboratory experiments and numerical analyses.

Our research themes include:

- understanding the biochemical cycles in oceans and lakes,
- understanding the global-scale carbon cycle,
- understanding interactions between life and the dynamics of Earth systems, and
- reproduction of the palaeoenvironment and palaeoclimate, and understanding its mechanisms





Radiation and Life Sciences (Radioisotope Research Center)*

Michihiro Shibata / Kazuhito Takeshima

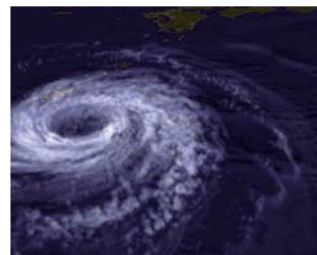
Since their birth, all living things have been exposed to natural radiation originating from radioactive materials existing in the ground and air, and even from cosmic radiation. Moreover, humankind also acquired "artificial" radiation in the 19th century. The aim of the education and research program carried out by the Radiation and Life Sciences group is to examine and evaluate the impact of natural and artificial radiation on living things, including humans, and to analyze the interaction between the environment and life using radiation.



Global Water Cycle (Hydrospheric Atmospheric Research Center)*

Hiroshi Uyeda / Tetsuzo Yasunari / Kenji Nakamura / Joji Ishizaka / Kazuhisa Tsuboki / Akihiko Morimoto / Hirohiko Masunaga / Tomo'omi Kumagai / Taro Shinoda / Yoshihisa Mino / Hatsuki Fujinami

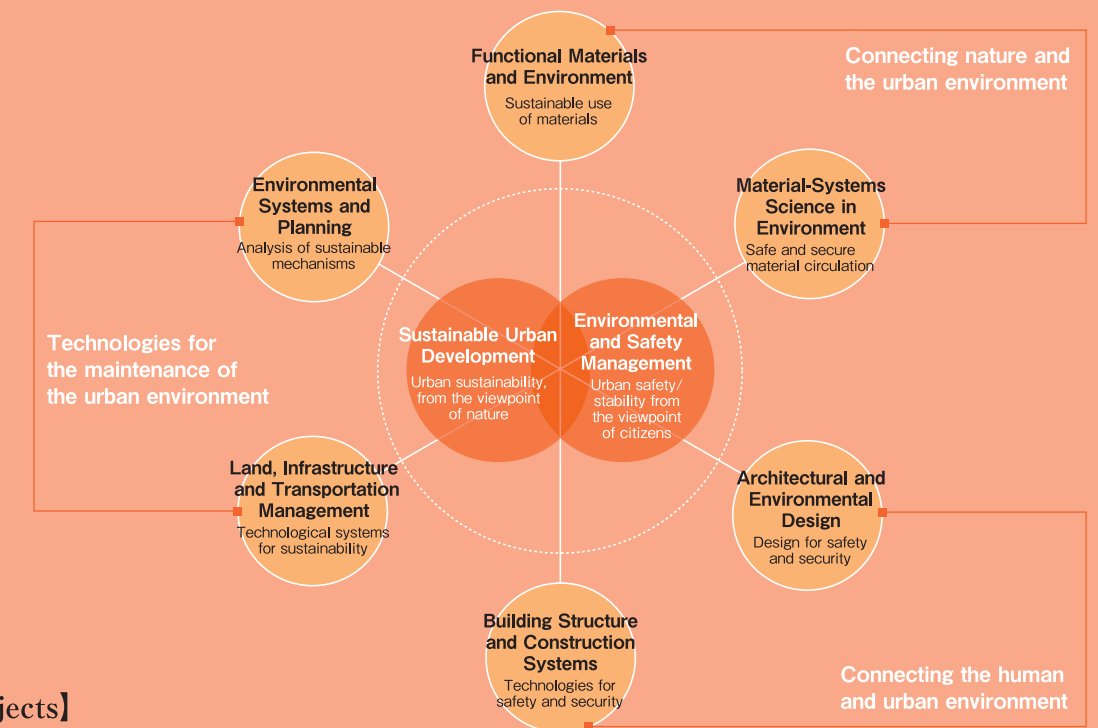
Research and education within this group is carried out by the Hydrospheric Atmospheric Research Center. This Center studies water cycles and related material/energy cycles based on the theme of "comprehensive research on the structure and variation of water cycles on multiple temporal and spatial scales", while also providing training for young researchers. At present, the Center comprises seven laboratories for meteorology, climate systems, cloud and precipitation climatology, satellite meteorology, environmental biophysics, satellite biological oceanography, and bio-physical oceanography, all of which are used to carry out research and education.



Classes with* are provided by cooperating institutions.

The Department of Environmental Engineering and Architecture

We study cities, which are an important focus for human society. We reexamine the spatial characteristics of cities and their supporting materials cycles from a global environment perspective, and aim to develop technologies and controlling systems that can be used to bring about a sustainable improvement in the quality of life (in keeping with the theme of Sustainability). We also work towards the establishment of a new relationship between natural, artificial, and human environments in terms of architecture, cities and regions, addressing this topic from the standpoint of living citizens (in keeping with the theme of Safety and Security).



【Category I subjects】

For the acquisition of specialized knowledge

Spatial Planning and Environment Course Materials and Environment Course

Project Finding in Urban Environment
Introduction to Studies on Environmental Materials and Infrastructure
English Communication in Environmental Issues

Spatial Development and Environment
Transportation Systems Analysis
Theory of Environmental Management in Urban Space
Environmental Systems Analysis and Planning
Computational Economics for Urban and Regional Planning
Methodology of Social Risk
Sustainable Infrastructure Engineering
Maintenance of Infrastructures
Theory of Energy Balance in Urban Space
Climate Change Policies
Biological Resource Management Policies
Biological Resource Management Projects
Water and Waste Engineering
Environmental Industry Systems

Subsurface Material Systems
Geochemical Processes in Environmental Systems
Functional Molecules for Environment
Structural Analysis of Molecules
Material Sciences for Energy Transformation and Related Functions
Organic Chemistry for Environmentally Suspecting Compounds
Environmental Nanotechnology Management Systems

Architecture Course

Special Lecture on Environment and Architecture
Latest Structural Engineering

Theory of Architectural Design
History of Architecture
Architectural Planning
History and Theory of City Planning
Theory of Environmental Design
Man-Environment Planning Theory

Engineering Design of Human Environment
Engineering Design of Physical Environment
Theoretical Analysis in Environmental Engineering
Architectural Environment System Design
Theory of Energy Balance in Urban Space

Methodology of Social Risk
Sustainable Infrastructure Engineering
Applied Continuum Mechanics
Structural Analysis and Computational Mechanics
Earthquake Engineering
Structural Materials
Building Construction Engineering
Seismic Design of Structures
Experimental Structural Dynamics and Vibration Control



Environmental Materials and Infrastructure Course

Sustainable Urban Development

Yoshitsugu Hayashi / Takashi Hibino / Hirokazu Kato / Hiroaki Shirakawa / Satoru Iizuka / Tsuyoshi Fujita

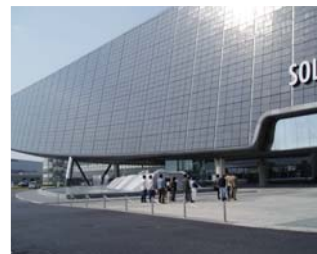
The disorderly expansion of cities which is now taking place in developing nations will lead to a substantial decline in social, economic and environmental efficiency, while the accelerating population decrease and suburbanization of cities in advanced nations will cause the devastation of central urban areas and bring about a decrease in infrastructure development. In order to deal with these problems, we engage in research and education directed at the sustainable development of urban cities. Based on urban demographics and social/economic trends, we develop and design effective technologies and systems to improve the efficiency of various urban factors including infrastructure, transportation systems, water resources management and energy/material metabolism. We also formulate political proposals that will contribute to the improved efficiency of the entire urban system.



Functional Materials and Environment

Mitsuru Sano / Shizuaki Murata / Yoshihiro Natsuhara / Takashi Tashiro / Masahiro Nagao / Hidekazu Kurimoto

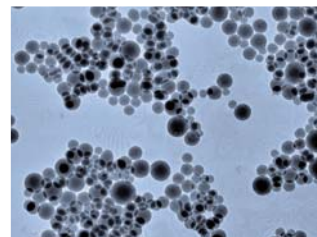
In order to establish a sustainable society, it is important to understand the functions of the limited resources available and ensure their effectiveness. To realize this goal, various measures such as information technologies and simulation tools should be used to visualize and analyze the environmental functions and their controlling systems. We are engaged in education and research concerning the development and management of new energy technique, environmental information systems, and environmental functional materials as well as assessment, preservation and restoration of ecosystems surrounding water basins, areas and soil.



Material-Systems Science in Environment

Kenichiro Sugitani / Shoichi Iwamatsu / Ken Yoda / Anatoly Zinchenko

In order to solve environmental problems and ensure the sustainable development and safety/stability of urban development, it is necessary to acquire a systematic understanding of the structure of the material environment, placing emphasis on achieving harmony with nature and considering urban development as a component of the Earth. It is also important to consider the temporal and spatial changes/dynamism occurring in the environment. We conduct research and education based on the environmental sciences, applying geology (water and soil), ecology (biobehavior) and chemistry (material) in order to scientifically investigate, analyze and solve problems regarding the structure, nature and environmental impact of materials at the nano, micro and macro levels.



Environmental Systems and Planning

Yasuhiro Mori / Hiroki Tanikawa / Ji Han / Arata Katayama / Takaaki Okuda / Toshiaki Ichinose

Human activities taking place on various spatial and temporal scales (such as cities, countries and the Earth as a whole) cause an enormous amount of resource/energy circulation and have a significant impact on the geosphere environment. With this in mind, we conduct research and education in order to develop a comprehensive understanding of the relationships between spatial dynamics and environmental problems, such as the spatial relationship between regional economic growth/infrastructure development and resource presence/demand, the real status of urban development and industrial accumulation, and the impact of transportation infrastructure/logistics on regional economic growth/resource consumption. We also study and design the appropriate technological systems needed in order to achieve sustainable land use.



Land, Infrastructure and Transportation Management

Takayuki Morikawa / Hiroshi Tagawa / Hitomi Sato / Naoki Shibahara

Our research aims are: to develop a methodology to establish and maintain beautiful urban environments that are both economically and environmentally sustainable; to establish a social infrastructure that ensures comfortable and congenial living and to develop an evaluation method for the appropriate maintenance/management for this infrastructure; and to develop disaster-resistant urban buildings.



Architecture Course

Environmental and Safety Management

Satoru Kuno / Nobuo Fukuwa / Hiroyuki Shimizu / Yasuhiko Nishizawa / Masafumi Mori / Akito Murayama / Hiroaki Kojima / Jun Tobita

In order to establish a sustainable, safe and secure form of urban living, in harmony with nature and involving both man-made objects and human beings, we are engaged in research and education concerning the management of the urban environment from the standpoint of human activities in accordance with the following themes: 1) optimum design, with a good balance of comfort and energy saving based on an evaluation of the living environment conducted from various angles, 2) the development of a new social system by means of collaboration between the public, administrations and experts, 3) the creation, preservation and evolution of urban environments based on the efficient use of resources, 4) the mitigation and control of urban disaster and crisis management, and evaluation of the earthquake safety of buildings, 5) the development and use of geographic information systems taking natural, urban and social aspects into account, and 6) conservation of the historical environment and urban design, making positive use of the existing cultural heritage.





Architectural and Environmental Design

Atsushi Katagi / Masaya Okumiya / Gen Taniguchi / Teruyuki Saito / Hisashi Komatsu / Toshiaki Matsuoka / Kazuhisa Tsunekawa / Yukiko Yoshida / Yoshihiro Hotta / Eisuke Tabata / Masato Miyata

The goal of architectural and environmental design is to create beautiful, safe and comfortable space through the arrangement of various physical factors related to design, structure and equipment, within the restrictions of land area, programs, financial budgets and laws. Our current research and education activities are directed towards integrating our accumulated knowledge concerning planning, design, evaluation and technologies for architectural and artificial environments with modern priorities such as the preservation of ecosystems, reduction of environmental burdens, the use of social/cultural/historical context, and collaboration within the community.



Building Structure and Construction Systems

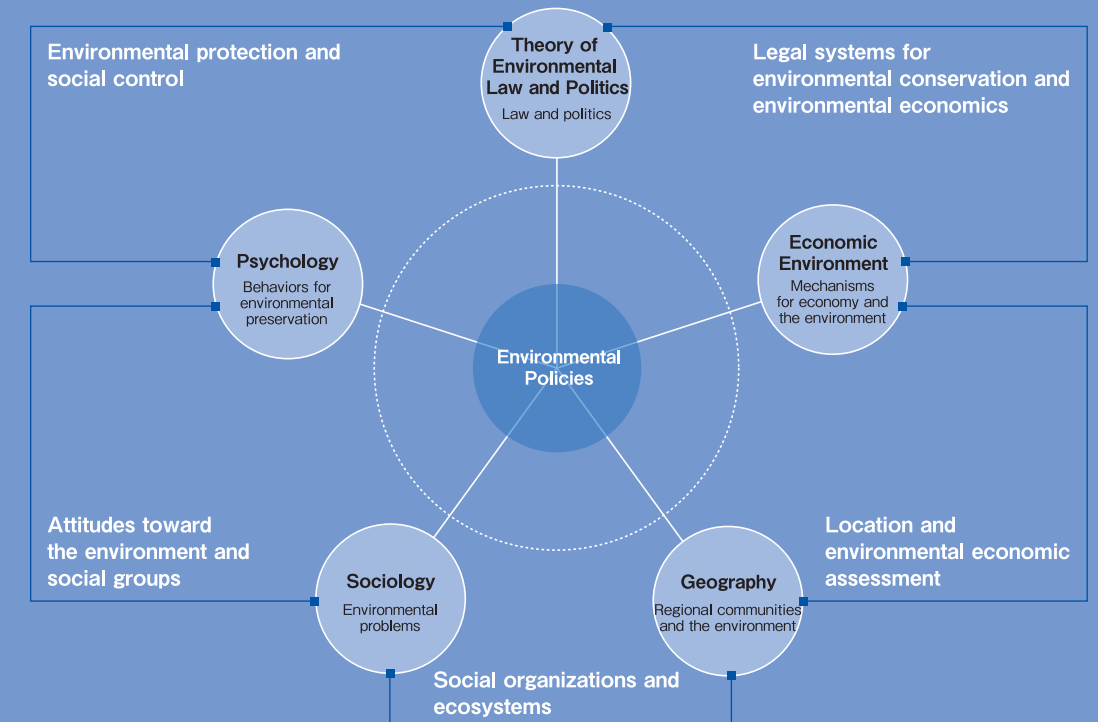
Hiroshi Omori / Masaomi Teshigawara / Tadatoshi Furukawa / Ippei Maruyama

In order to realize a safe and sustainable architectural and urban environment, we conduct research and education directed towards the establishment/maintenance of resource-recycling structural systems. We study the design of various structures such as reinforced concrete, steel and wooden structures, large span structures and structures designed for earthquake isolation and vibration control. We are also engaged in the design of construction materials, the development of new materials, and the evaluation of their performance. In addition to these conventional fields of research and education, we also propose systems for the assessment, renovation, maintenance and management of buildings, recycling technologies and long-life buildings.



Department of Social and Human Environment

Aiming to establish a harmonious relationship between humans and nature, the Department of Social and Human Environment analyzes the status and function of social environments using a humanity/social science-based approach, and evaluates the validity and scientific objectivity of existing laws and policies, and proposes new policies. The Department cultivates professionals capable of dealing with the demands of various fields related to domestic and overseas social environmental policies.



Nagoya University Center for Global Environmental Leaders “Global Environmental Leaders Program”

Educational Program

This program has been established as a master’s program to foster future environmental leaders who will contribute to solveing environmental problems faced by Asian and African countries. Our systematic curriculum is based on three pillars: climate change mitigation and adaptation water and waste management, and biodiversity conservation. All instructions are given in English, and the students who complete this program are awarded a certificate in addition to a master’s degree.

To participate in this program, applicants must be enrolled at the master’s course either at the Spatial Planning and Environment Course, Department of Environmental Engineering and Architecture, or the Department of Civil Engineering in the Graduate School of Engineering.

Program Leader: Takayuki Morikawa

Teaching staff: Mikihiko Watanabe / Masafumi Nagaishi / Yuko Sase / Makiko Koyabu / Hiromi Kurosaki

<http://www.envleaders.env.nagoya-u.ac.jp/>

【Category I subjects】

For the acquisition of specialized knowledge

Environmental Administration Organizational Environment Environmental Politics The Foundation of Social Environment Studies	Urban and Regional Economics Environmental Economics Environmental Statistics Spatial Econometrics Topics in Environmental Economics	Thoughts in Politics and Diplomacy The International Environment, Politics and Diplomacy Environmental Politics Environmental Law International Environmental Law	Sociological Theory Contemporary Society Social Class and Stratification Social Space Community and Environment Structure of Community Comparative Social Policy Environmental Sociology	Cognitive Psychology Cognitive Neuropsychology Mechanisms of Learning Social Cognition Psychophysiology of Emotion Counseling Psychology Vision and Environment Applied Cognitive Psychology	Human Geography Physical Geography Geomorphological Environment Economic Geography Geographic Information Science Regional Environmental Histories Rural Development
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Environmental Policies

Tsuneo Takeuchi / Yukihiro Wakuta / Ko Nomura

This unit conducts policy-oriented and strategic research on environmental issues for realizing a sustainable society, with a view to helping governments, companies/businesses, NGOs and individuals to take effective and practical measures for it. Based on policy studies, business administration, and political sciences, this unit takes an inter-disciplinary approach by collaborating closely with colleagues from other social science disciplines (i.e.colleagues in other units) such as economics, legal & political studies,sociology, psychology and geography. We often work with experts outside of our department too. We offer a wide variety of research and education opportunities including theoretical work fieldwork.



Economic Environment

Tatsuaki Kuroda / Takafumi Kato / Makiko Nakano / Minoru Nakada

Modern economics is based on theoretical economics, which analyzes problems using mathematical techniques, and econometrics, which adopts statistical methods. These two fields complement each other. The process of analysis, itself, can be categorized into two types: macroanalysis that focuses on the dynamism of the entire economy, and microanalysis that examines the behavior of specific economic entities. The role of the Economic Environment study unit is to take a close look at various problems related to cities, regions and the environment from micro and macro perspectives, making effective use of the techniques of both theoretical economics and econometrics.



Theory of Environmental Law and Politics

Minoru Kawada / Haruo Iguchi / Yukari Takamura / Yoko Masuzawa / Yoshihiro Akabuchi

The Environmental Law and Politics unit is staffed with researchers in both the law and politics fields. Our researchers in law specialize in environmental law, and policy, international environmental law, etc., while our researchers in politics specialize in political thought, political/diplomatic history, etc. Based on an understanding of the concept of the “social environment” and recognizing that, in a broad sense, the “socially produced environment” has reached to account for most of the Earth’s environment, today, the Environmental Law and Politics program aims to investigate the problems regarding social environment from legal and political perspectives.



Sociology

Kazuhisa Nishihara / Shigeyoshi Tanaka / Nobuhiko Nibe / Yoshihiko Kuroda / Noriyuki Kawamura / Yasushi Maruyama / Yasuhiro Kamimura / Soko Aoki

Sociology is a scientific discipline that seeks to explain social phenomena and social problems by focusing on interactions between people. It is necessary to understand the nature of social relations and social structures in order to think about the future of human society and how it can develop in a sustainable fashion. The Department of Sociology at Nagoya University has become a major center for the conduct of both theoretical and empirical studies. Its aim is to build up sociological theory from an Asian perspective whilst drawing from all existing traditions and trends of the discipline. The department conducts research in a wide variety of issues,both in Japan and abroad, employing both qualitative and quantitative methods. It seeks to contribute to the resolution of social problems, including by making policy recommendations.



Environmental activities in Germany

Psychology

Yoshimi Ito / Kiyoshi Ishii / Jun Kawaguchi / Hideki Ohira / Minoru Karasawa / Shinya Takahashi / Shinji Kitagami / Atsunobu Suzuki

This unit is engaged in research and education covering a wide range of psychological fields, adopting an empirical approach in order to clarify the function of the “mind” that affects human behavior. Our basic studies focus on the mechanisms of perception, learning, memory and emotion, while practical issues such as adjustment/learning disorders are also actively studied. A wide variety of research methods such as psychological experiments, physiological analysis, social surveys and psychotherapy are applied and students are encouraged to acquire these skills as part of our educational program. Moreover, interdisciplinary exchanges with engineering, cognitive science and various other social science fields are actively promoted.



Geography

Tsunetoshi Mizoguchi / Kohei Okamoto / Yasuhiro Suzuki / Makoto Takahashi / Satoshi Yokoyama / Keiichi Okunuki / Kazuaki Hori / Ryogo Abe

Research and education in this program covers various fields in human and natural geography, and Nagoya University is recognized as a center of geographic studies within Japan. Graduate students in this unit are allowed to freely select their research themes and actively participate in the presentation of their research results in academic journals and at international academic meetings. In recent years, many students have selected research themes that require the use of overseas surveys. Thanks to the introduction of GIS (the Geographic Information System) for use in research and education environments, the number of students conducting their research using GIS is also increasing. Seminar meetings are held at which experts in human and natural geography participate, and where students can be inspired to improve their specialized research by being exposed to a broad range of views.

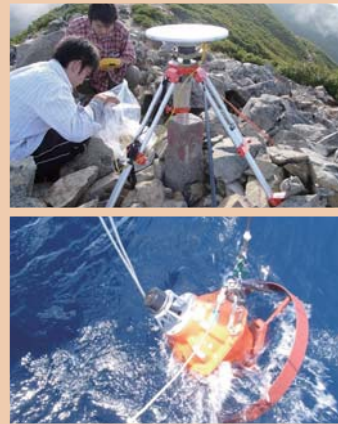


A barren, dry land has been transformed into a vineyard. (Catalonia, Spain)

Research Center for Seismology, Volcanology and Disaster Mitigation (RSVD)

The Japanese islands are located at a plate subduction zone and have experienced frequent earthquakes and volcanic activities. Active faults concentrated especially in the Chubu Region have caused massive earthquakes (Tokai/Tonankai Earthquakes) along the Nankai Trough and inland earthquakes such as the Nobi Earthquake, one of the largest earthquakes ever to hit Japan. In order to play an important role in solving the mechanisms which cause such activities, realizing the scientific prediction of earthquakes and volcanic eruptions, and mitigating natural disasters such as earthquakes and volcanic eruptions, the Center strongly promotes latest researches both in theory and observation. To achieve these goals, the Center has set up seismic/geodetic observation stations throughout the region while obtaining seismic/geodetic data from domestic and international sources. With such data, the Center promotes research programs in order to draw new concepts of earthquakes and volcanic eruptions.

Moreover, the Center opens new frontiers of study through actively committing to the development of new observation methods and technologies. Its project for monitoring plate movements using the ocean crustal movement observation system and the ability to detect crustal variations using a new concept-based controlled seismic source (ACROSS) has attracted nationwide attention.

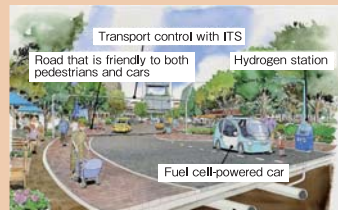


International Research Center for Sustainable Transport and Cities (SISTRAC)

Now that international attempts to solve environmental/energy issues have been launched worldwide, it is vital that we find a way to break away from the conventional form of society and establish a society capable of sustainable development.

SISTRAC therefore seeks to develop various technologies and systems relating to transportation and cities, and to establish a global network linking public and private research institutions.

In order to achieve this, SISTRAC has initiated a range of activities, led mainly by instructors in the Department of Environmental Engineering and Architecture, under the four headings of "Sustainable Transport and Urban Policies", "Transport Technology for Environmental Load Reduction", "Transport and Urban Systems" and "Systems of Urban and Architectural Energy and Resources", and has promoted joint research projects involving domestic and international academic collaboration, as well as industry-university collaboration. Instructors at SISTRAC include the Chair of the World Conference on Transport Research Society (WCTRS) and the task force chair of China's international committee for sustainable development. SISTRAC is also actively committed to the training of researchers and engineers with abundant expertise and a broad international perspective.



Nagoya University Global COE Program - From Earth System Science to Basic and Clinical Environmental Studies

Educational Program

This program is a G-COE research and educational program which aims to construct a base of new environmental studies which connect diagnostic studies (such as physical science) and therapeutic studies (such as engineering and agricultural studies). Its pillars are Clinical Environmental Studies that treat global environmental problems and Basic Environmental Studies that handle trans-regional problems through collaborating departments of the humanities and the sciences. The Special Course of Integrated Environmental Studies during the doctoral program offers education to the students to obtain a broad perspective and to propose solutions to environmental problems by providing overseas field research programs and cross-sectional studies.

Program Leader: Tetsuzo Yasunari

<http://w3serv.nagoya-u.ac.jp/envgcoe/index.php>

Teaching staff: Hisashi Sato / Hiromi Yamashita / Liu Chen

Graduate School of Environmental Studies "Donation course of Shinkin Environmental Business Innovation"

Educational Program

The Graduate School of Environmental Studies established the "Donation course of Shinkin Environmental Business Innovation" with cooperation from the regional credit associations in order to create local innovation of environmental business, and to strengthen the collaboration among enterprises, universities and residents. Other than Environmental Innovation lectures (cooperative activities regarding environmental business), the course provides lecture meetings for residents on environmental topics, seminars for business owners, and opportunities to exchange corporate and academic opinions.

Teaching staff: Kimiaki Yasuda / Kazuo Kawahara

<http://shinkin.env.nagoya-u.ac.jp/index.html>

Student assistance

Nagoya University offers assistance for students under the following three categories:

- Admission fees, tuition exemption system
- Scholarships Japan Student Services Organization (JASSO)
- Assistance with academic and job-hunting activities

Admission fees, tuition

Admission fee: 282,000 yen
Tuition : 535,800 yen/year
(to be paid half-yearly)

Admission fee exemption (in 2010)
Applicants: 30 (out of 166 eligible students)
Full exemption: 0%, half exemption: 63%, not granted: 37%

Tuition exemption (for the second semester in 2010)
Applicants: 93
Full exemption: 9%, half exemption: 88%, not granted: 3%

Scholarships

○Nagoya University Award for Promising Researchers Scholarship (revised in the 2010 academic year)

Eligible students : Students in the Doctor's Course (JSPS research fellows, government-financed foreign students are excluded)
Amount to be granted : 500,000 yen/year
No need for repayment
Application : End of February of the entrance year
Number of grantees (for the 2009 academic year) : 5 for each graduate school (out of 32 eligible students)
Around 50 for each undergraduate year

○Japan Student Services Organization (JASSO)

		Master's Course	Doctor's Course
Type 1 (No interest)	Amount of loan	88,000/month	122,000/month
	Ratio of granted applicants	89%	100%
	Exemption rate	67%	100%
Type 2 (With interest)	Amount of loan	50,000 to 150,000 yen/month (selected)	
	Ratio of granted applicants	100%	100%

The ratio of granted applicants is the percentage of applicants who were granted loans out of the total number of students enrolled in the 2010 academic year who wanted the loans. The ratio may differ from year to year.

○Scholarships offered by local public organizations and the private sector

Results for the 2010 academic year

Recommended: 13 programs

10 programs for the graduate school, 1 program (funded directly) from the Students Support Section
7 students applied for each program

Adopted: 4 programs

JGC-S Scholarship Foundation, Zonta Club of Nagoya Scholarship for Female Researchers, Building Contractors Society, Daiko Foundation

	JASSO (*1) Type 1	JASSO (*2) Type 2	Private (Japanese students)	Foreign students (study grant/private scholarships)		
Master's Course	140	38	1	5	5	0
Doctor's Course	36	4	1	0	0	0

Unit: program

Assistance for research and academic activities

○Program for assisting students' research activities, offered by the Graduate School of Environmental Studies

A total of around 1 million yen is available for 5 items in order to support research activities

Last year, 5 items were granted approval (1 million yen)

Travel expenses for attending international academic meetings (2 items)

Assistance to research promotion (3 items)

○Student exchanges

Many partnership agreements have been concluded with various overseas universities in order to promote research and educational exchanges.

Major partner universities: University of the Philippines Diliman; Institute of Technology Bandung; Vietnam National University/Ho Chi Ming City University of Technology; Shanghai Jiao Tong University; Tongji University; Free University of Berlin; The Australian National University (accepted during the academic year 2010)

○Short-term overseas study promotion program offered by Nagoya University (6 to 12 months)

Scholarship of 80,000 yen/month (travel expenses not included)

In order to qualify, excellent academic performance, clear purpose and plan, acceptance by the host destination and sufficient language ability are required.

Careers Service, academic support and campus life counseling service

○Careers Service

The job information section is located on the 2nd and 3rd floors of the Administration Office of the Graduate School of Environmental Studies. Job-hunting guidance programs are offered in October each year, providing students with opportunities to meet with those who have already acquired informal appointments for employment, learn from their experiences, and so on.

○Academic support and campus life counseling service

Center for Student Counseling services for students attending Nagoya University. Harassment Consultation Center is also available.

The Offices of Dean and Vice-Dean of Graduate School of Environmental Studies also offer consultation on harassment. Do not hesitate to consult these offices.

Acquirable qualifications

○Types of teaching licenses that can be acquired from the Graduate School of Environmental Studies

Department	Junior high school teacher's license	Senior high school teacher's license
Department of Earth and Environmental Sciences	Science	Science
Department of Social and Human Environment	Social studies	Geography/history, civics

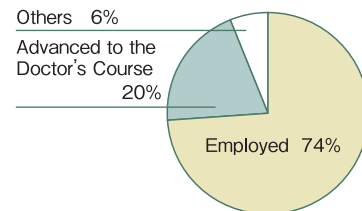
○Number of students who have acquired teaching licenses over the past 3 years

Department	Type of license	2010 academic year	2009 academic year	2008 academic year
Department of Earth and Environmental Sciences	Junior high school (science)	6	2	1
	Senior high school (science)	10	10	3
Department of Social and Human Environment	Junior high school (social studies)	3	2	0
	Senior high school (geography/history)	1	3	1
	Senior high school (civics)	3	1	0

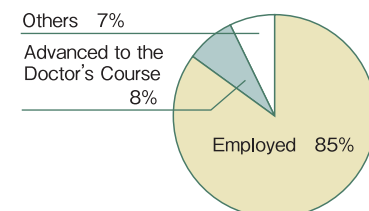
Careers available after graduation

○Graduates from the Master's Course (2009 academic year)

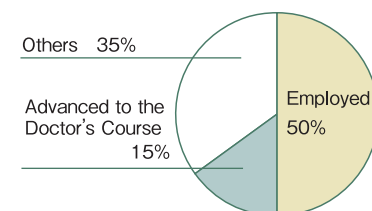
■ Department of Earth and Environmental Sciences : 51 graduates



■ Department of Environmental Engineering and Architecture : 72 graduates



■ Department of Social and Human Environment : 34 graduates



Major employers of our graduates (from 2009 through to the 2010 academic year)

■ Department of Earth and Environmental Sciences

2009
Aisin Comcruse, IHI, AT Johoken, Stem, NTT Communications, INPEX Corporation, Shimadzu, Food Analysis Technology Center, Techno System, System Engineering, Toenec, Hitachi Systems and Services, Fujitsu Advanced Solutions, Brother Industries, Mitsubishi Corporation Exploration, Meikikou, Yagami, Yachiyo Engineering, Japan Meteorological Agency, Gifu Prefectural school, Hyogo Prefecture, Yokkaichi City, Chubu Regional Police Bureau

2010
Aishin AW, INTEC, Weathernews, EMUESU, NTT Date, Kurita Water Industries, Sumitomo Erectic Information Systems, Chuo Fukken Consultants, Chugoku Electric Power, Nankai Chemical, Nippon Steel Kankyo Engineering, Nittoc Construction, Japan Nursery Service, Japan Radio, Hanshin Consultants, Fujitsu Broad Solution&Consulting, Hokuriku Electric Power Mitsubishi Heavy Industries, Mitsubishi Space Software, Mitsubishi Electric Information Network, Japan Meteorological Agency, Japan Agency for Marine-Earth Science and Technology (JAMSTEC), Japan Oil, Gas and Metals National Corporation (JOGMEC), Aichi Prefectural, Nagoya City, Tajimi City, Gifu Prefectural (Board of Education), Sugiyama Jogakuen (High school teacher), Kobe City (Junior high school teacher)

■ Department of Environmental Engineering and Architecture

2009
Aisin Seiki, Aiki Biotic, Ito Architects & Engineers, Urano Architects & Engineers, NTT Communications, NTT Data Tokai, NTT Facilities, Obayashi Corporation, Structural Design Group, Koyushokucho, GofE, JFE Engineering, JR-Central Consultants, Central Japan Railway, West Japan Railway, Shimizu, Metropolitan Expressway, Nippon Steel, Soken, Sompō Japan, Taisei, Takenaka, Tamano Consultants, Tamura Architect & Design, Chubu Electric Power, Chunichi Jyu-ku, Chuoh Consultants, Chiyoda Corporation, Toho Gas Information System, Toyota Auto Body, JGC Corporation, Nitto FC, Nikken Sekkei, JDC Corporation, Pacific Consultants, Panasonic Electric Works, Panasonic Ecology Systems, Valor, NEXCO East, MARUWA, Mitsubishi Research Institute, Mitsubishi UFJ Lease & Finance, Yamada Denki, Yamaha Motor, Yamatake, Ministry of Defense, Aichi Prefecture, Mie Prefecture, Okazaki City, Nagoya City

2010
Ichi Steel, Azusa Sekkei, IBIDEN, NTT Date, NTT Facilities, OASYS solution, Obayashi Corporation, Okumura Corporation, Kajima Corporation, Environment Design Institute, Shimizu Corporation, Sumitomo Forestry, Daibiru Corporation, Takasago Thermal Engineering, Takenaka Corporation, Chubu Electric Power,

Tims Corporation, Denso Create, DENTSU, Tokai Tokyo Securities, Tokyo Gas, Tokyo Electric Power, Toho Gas, Toyota Mapmaster Incorporated, Nichiha Corporation, Nippon Koei, Nihon Sekkei, Nippon Electric Company (NEC), Haseko Corporation, PanaHome, Hokuriku Gas, Honda Motor Corporation, Mitsubishi Motors, Mitsubishi Heavy Industries, Mitsubishi Electric Information Network, Murata Electronics, Yagami Corporation, Yahagi Construction, Japan International Cooperation Agency (JICA), Nagoya University (Administrative Staff), Aichi Prefectural, Toyama Prefecture, Nagano Prefecture, Okayama Prefecture, Nagoya City, Toyama City, Shizuoka Performing Arts Center

■ Department of Social and Human Environment

2009
Informatix, Taisei, Nippon Gasket, Japanese Red Cross Society Osaka Branch, Nippon Computer Systems, Norinchukin Bank, Boso Oil and Fat, Ufit, Aichi Prefecture, Toyama Prefecture, Nagoya City

2010
NTT Facilities, Kaga Japan Agricultural Cooperatives (JA Kaga), KIZUNA JAPAN, NITORI, NOEVIR, Maruha Nichiro Seafoods, Mitsui Sumitomo Banking, HITACHI, Aichi Prefectural, Nagoya City

History

- 2001 The School of Environmental Studies was founded on April 1, with 241 entrants admitted (168 for the Master's Course and 73 for the Doctor's Course).
- 2003 A research division for disaster mitigation was added to the Research Center for Seismology and Volcanology Observation. The Center was renamed the Research Center for Seismology, Volcanology and Disaster Mitigation. "Dynamics of the Sun-Earth-Life Interactive System" was selected as a 21st century COE program.
- 2006 "Establishment of an educational curriculum for social environmental studies" was selected as an "Initiative for Attractive Education in Graduate Schools" program. Our "International Priority Graduate Program" was approved. The International Research Center for Sustainable Transport and Cities was established.
- 2008 Adoption of Nagoya University Global Environmental Leaders Program
- 2009 Adoption of Nagoya University Global COE Program - From Earth System Science to Basic and Clinical Environmental Studies
- 2010 Establishment of "Donation course of Shinkin Environmental Business Innovation" Adoption of "Cultivation program of young researchers who will lead basic environmental studies" on "Organizational dispatching program of young researchers to overseas"

Number of staff members

Department	Professor	Associate Professor	Instructor	Assistant Professor	Total
Department of Earth and Environmental Sciences	16	11	1	8	36
Department of Environmental Engineering and Architecture	14	15	0	7	36
Department of Social and Human Environment	17	15	2	1	35
Research Center for Seismology, Volcanology and Disaster Mitigation (RSVD)	4	4	0	3	11
The International Research Center for Sustainable Transport and Cities (SUSTRAC)	2	0	0	1	3
Total	53	45	3	20	121

Unit: number of people (as of September 1, 2011)

Number of students

Master's Course	
Department of Earth and Environmental Sciences	114
Department of Environmental Engineering and Architecture	153
Department of Social and Human Environment	69
Total	336
Doctor's Course	
Department of Earth and Environmental Sciences	67
Department of Environmental Engineering and Architecture	55
Department of Social and Human Environment	74
Total	196

Unit : number of people (as of April 1, 2011)

Acquisition of degrees

A selection of degrees is offered, each of which requires a certain number of credits. About 33% of the School's graduates have acquired a Master's degree and 6% have acquired a Doctor's degree in "Environmental Studies". The Department of Environmental Engineering and Architecture has a higher percentage of graduates who have acquired degrees in environmental studies than other departments. Almost all of the graduates from the doctoral dissertation course have acquired Environmental Studies degrees.

○Master's degree

○Doctor's degree (Course Doctorate)

Department	Degree	2010			2009			2008		
		2010	2009	2008	2010	2009	2008	2010	2009	2008
Department of Earth and Environmental Sciences	Environmental Studies	15	9	13	0	0	2	0	0	2
	Science	36	35	23	19	11	8	19	11	10
	Subtotal	51	44	36	19	11	10	19	11	10
Department of Environmental Engineering and Architecture	Environmental Studies	26	23	24	0	2	3	0	2	3
	Engineering	32	40	25	8	6	8	8	6	8
	Architecture	14	7	5	0	0	2	8	8	13
Subtotal	72	70	54	8	8	13	8	8	13	
Department of Social and Human Environment	Environmental Studies	11	11	10	2	2	1	0	0	0
	Economics	2	1	0	0	0	0	0	0	0
	Law	1	0	0	0	1	0	0	1	0
	Sociology	9	7	4	3	2	1	3	2	1
	Psychology	9	9	8	3	5	4	0	0	2
	Geography	2	4	2	0	0	2	8	10	8
Total	157	146	114	35	29	31	35	29	31	

Unit : number of people

Number of students awarded fellowships from the Japan Society for the Promotion of Science (As of April 1, 2011) (Assistance for research by domestic young researchers)

	PD	DC2	DC1
Department of Earth and Environmental Sciences	3	2	7
Department of Environmental Engineering and Architecture	0	2	3
Department of Social and Human Environment	0	5	7
Total	3	9	17

PD: Researchers under 34 who have acquired a doctorate (for 3 years)
 DC2: Students under 34 enrolled in the Doctor's course (for 2 years)
 DC1: Students under 34 enrolled in the Doctor's course (for 3 years)
 Unit : number of people

Grants-in-Aid for Scientific Research (KAKENHI) (from 2001 to 2010)

- 1 Department of Earth and Environmental Sciences
- 2 Department of Environmental Engineering and Architecture
- 3 Department of Social and Human Environment
- 4 Research Center for Seismology, Volcanology and Disaster Mitigation (RSVD)
- 5 The International Research Center for Sustainable Transport and Cities (SUSTRAC)

	1	2	3	4	5	Total
Scientific Research in Priority areas	3	9	0	0	(2)	12
Scientific Research (S)	15	0	0	0	0	15
Scientific Research (A)	15	16	4	3	0	38
Scientific Research (B)	49	71	39	14	(6)	173
Scientific Research (C)	23	29	71	4	0	127
Exploratory Research	29	23	17	4	0	73
For Young Scientists (A)	5	3	3	0	(1)	11
For Young Scientists (B)	31	36	17	7	0	91
Grant-in-Aid for Special Purposes	1	1	0	0	0	2
For Young Scientists (startup)	3	0	2	2	0	7
Grant-in-Aid for Scientific Research Results (academic publications)	0	1	0	0	0	1
Grant-in-Aid for JSPS Fellows	68	16	77	7	0	168
Total	242	205	230	41	(9)	718

Unit : number of programs

*Figures for the International Research Center for Sustainable Transport and Cities are included in the figures given for the Department of Environmental Engineering and Architecture
 The Research Center for Seismology and Volcanology Observation was transferred from the Graduate School of Science in 2002.
 The International Research Center for Sustainable Transport and Cities was established in 2006.
 Grants-in-Aid for Special Purposes and for Young Scientists (startup) were established in 2006.

○Other external financial aid. (for academic year 2010)

	1	2	3	4	5
Commissioned research	12	19	4	9	3
Joint research	3	11	1	7	9
Commissioned projects, researchers, trainees	0	5	1	2	0
Scholastic donations	3	42	0	3	1

Unit : number of programs

Admission exam

Department of Earth and Environmental Sciences	Regular exam: August 29 (Mon) and 30 (Tue), 2011 Self-recommendation exam: August 18 (Wed) and 19 (Thu), 2011
Department of Environmental Engineering and Architecture	Exam A Spatial Environmental Sciences Course: August 4 (Thu), 5 (Fri), 2011 Materials and Environmental Sciences Course: August 4 (Thu), 2011 Exam B Spatial Environmental Sciences Course: August 23 (Tue) through 25 (Thu), 2011 Architecture Course: August 30 (Tue) through September 1 (Thu), 2011
Department of Social and Human Environment	August 18 (Thu), 19 (Fri), 2011

Competitive funds

○Major subsidies

Global COE Program "From Earth System Science to Basic and Clinical Environmental Studies"

Japan Science and Technology Fund "Creation of cultivation base of strategic environmental leaders: Global Environmental Leaders Program"

The research abroad grant-aid program under the Basic Environmental Studies' Young Leadership Development Program.

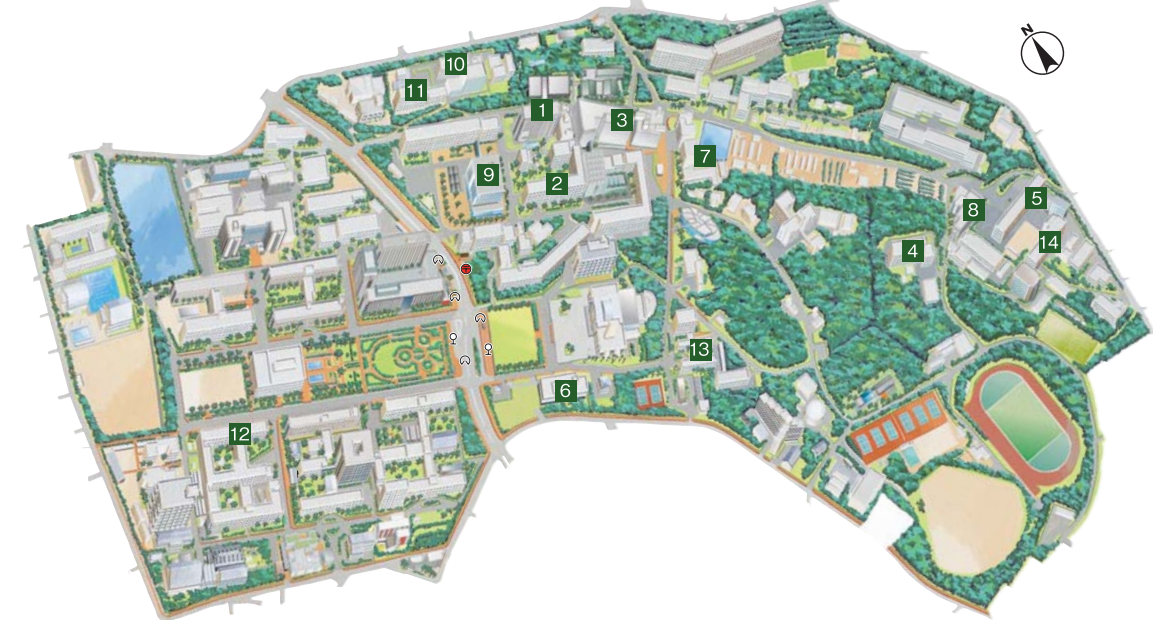
○Major partners for joint research programs

Toyota Motor Corporation
Mie Prefecture

○Major research-commissioning entities

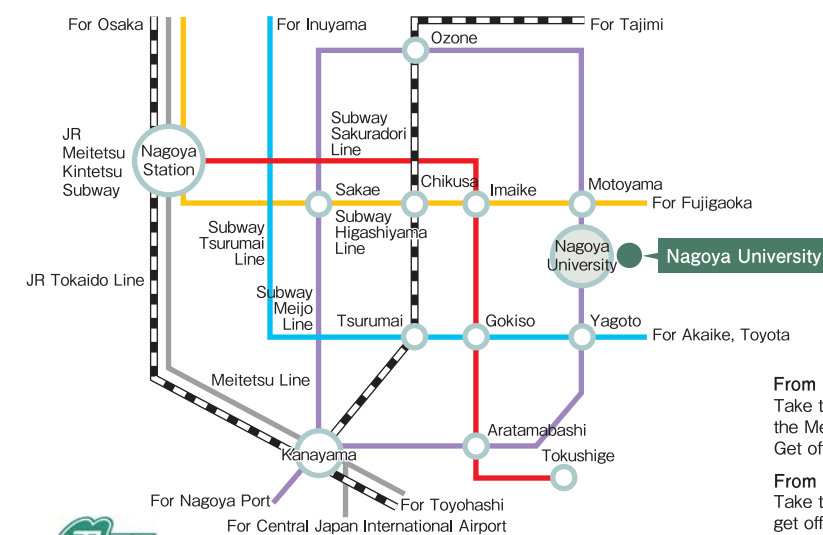
Ministry of Education, Culture, Sports, Science and Technology (JSPS)
 Ministry of the Environment
 Japan Science and Technology Agency
 Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
 National Institute for Environmental Studies
 National Research Institute for Earth Science and Disaster Prevention

Access to the Graduate School of Environmental Studies



- 1 Administration Office / Graduate School of Environmental Studies (for the 3 departments: Department of Earth and Environmental Sciences, Department of Environmental Engineering and Architecture, Department of Social and Human Environment) Administration Office
- 2 School of Science, Building E (Department of Earth and Environmental Sciences · Research Center for Seismology, Volcanology and Disaster Mitigation)
- 3 Science Hall (Department of Earth and Environmental Sciences)
- 4 Hydrospheric Atmospheric Research Center (Department of Earth and Environmental Sciences)
- 5 Inter-Departmental Education and Research Facilities Building (Department of Earth and Environmental Sciences)
- 6 Nagoya University Museum / Center for Chronological Research (Department of Earth and Environmental Sciences)
- 7 Radioisotope Research Center (Department of Earth and Environmental Sciences)
- 8 Institute for Advanced Research Hall (Department of Earth and Environmental Sciences)
- 9 Engineering and science Building General Hall (Department of Environmental Engineering and Architecture)
- 10 School of Engineering, Building 8 (Department of Environmental Engineering and Architecture)
- 11 School of Engineering, Building 9 (Department of Environmental Engineering and Architecture)
- 12 School of Informatics and Sciences (for the 3 departments: Department of Earth and Environmental Sciences, Department of Environmental Engineering and Architecture, Department of Social and Human Environment)
- 13 Administration Bureau Building 2 / The Office of Planning and Evaluation (Department of Environmental Engineering and Architecture)
- 14 EcoTopia Science Institute (Department of Environmental Engineering and Architecture)

Access to Nagoya University



From Nagoya Station ●
 Take the Subway Higashiyama Line and transfer to the Meijo Line (clockwise) at Motoyama station. Get off at Nagoya Daigaku station. 30 minutes required.

From Kanayama Station ●
 Take the Subway Meijo Line (counterclockwise) and get off at Nagoya Daigaku station. 21 minutes required.

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