

Nagoya University Civil & Environmental Engineering Group

# **International Program Guidebook**

## **Academic Year 2022**

For Students Enrolled in Spring 2022



Nagoya University  
Civil & Environmental Engineering  
International Programs Office



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# *Welcome to Civil and Environmental Engineering groups*

## **Features of Departments**

The Department of Civil and Environmental Engineering of the Graduate School of Engineering was established in 1961, after the great damage by Typhoon Ise-wan. The departments have promoted education and research to foster international civil engineers and researchers who can take leadership with advanced expertise, practical skills, flexible ideas, global views and higher ethical standards for sustainable co-development of Japan and Foreign countries in civil engineering field.

In 1987, the Forefront Studies program was started as a special international program supported by the Japanese Ministry of Education, Culture, Sports, Science and Technology, and the department has received more than 150 students from foreign countries including developing countries. In 2001, the Graduate school of Environmental Studies was established, as the first interdisciplinary postgraduate course in Japan by integrating from natural sciences to engineering and social scientists. In addition, the Nagoya University Global Environmental Leaders Program (NUGELP) was established in 2008 to develop environmental leaders who are able to identify and investigate environmental problems from a global and holistic perspective, and propose practical measures to solve them in the world.

A large number of graduates mainly from the both international programs are supporting the growth of Japan and foreign countries as specialist of respective fields.

## **Civil & Environmental Engineering International Program Office**



Civil and Environmental Engineering International Programs Office (CEEIPO) aims to assist the academic life of international students by providing information for admissions, orientation and 2 types of International Programs (NUGELP and Forefront Studies Program). We welcome any questions and inquiries you have about our activities.

CEEIPO Website: <http://www.civil.nagoya-u.ac.jp/ceeipo/Index.htm>

NUGELP Website: <http://www.civil.nagoya-u.ac.jp/nugelp/index.html>

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## Laboratories and Faculty members

The Nagoya University Civil and Environmental Engineering groups consist of the below two organizations:

- Department of Civil and Environmental Engineering, Graduate School of Engineering (**Civil**)
- Sustainable Development Course, Department of Environmental Engineering and Architecture, Graduate School of Environmental Studies (**Environment**)

The faculty members are belonging to either department. Our group consists of the below laboratories:

\* Member of Civil and Environmental Engineering International Programs Office (CEEIPO)

Laboratory	Faculty member			
	Name	Position	Department	Room
Structural Engineering and Materials	KATO, Junji	Professor	Civil	8-315
	NISHIGUCHI, Koji	Lecturer	Civil	8-319
	HOSHIBA, Hiroya	Assistant Professor	Civil	8-317
Steel Structures and Bridge	TATEISHI, Kazuo	Professor	Civil	9-629
	HANJI, Takeshi	Associate Professor	Civil	9-625
	SHIMIZU, Masaru	Assistant Professor	Civil	9-627
Concrete Structures and Materials	NAKAMURA, Hikaru	Professor	Civil	9-529
	MIURA, Taito	Associate Professor	Civil	9-527
Coastal and Ocean Engineering	MIZUTANI, Norimi	Professor	Civil	8-415
	NAKAMURA, Tomoaki	Associate Professor	Civil	8-419
	CHO, Yonghwan	Lecturer	Civil	8-417
Hydraulic Engineering/ River Basin Management	TODA, Yuji	Professor	Civil	9-201
	TSUBAKI, Ryota	Associate Professor	Civil	9-205
Geotechnical Engineering	NAKANO, Masaki	Professor	Civil	9-329
	SAKAI, Takayuki	Assistant Professor	Civil	9-327
Geo-Disaster Prevention Engineering	NODA, Toshihiro*	Professor	Civil	9-317
	NAKAI, Kentaro*	Associate Professor	Civil	9-313
	YOSHIKAWA, Takahiro*	Assistant Professor	Civil	9-315
	TOYODA, Tomohiro*	Assistant Professor	Civil	9-319
Transportation Planning	MORIKAWA, Takayuki*	Professor	Environment	8-401
	YAMAMOTO, Toshiyuki	Professor	Civil	8-409
	MIWA, Tomio	Associate Professor	Civil	8-309
	TASHIRO, Mutsumi*	Lecturer	Environment	8-405
Traffic Engineering	NAKAMURA, Hideki	Professor	Environment	9-227
	ZHANG, Xin	Lecturer	Environment	9-229
Sustainable Development	KATO, Hirokazu	Professor	Environment	9-309
Environmental Policy and	HAYASHI, Kiichiro	Professor	Civil	II-519

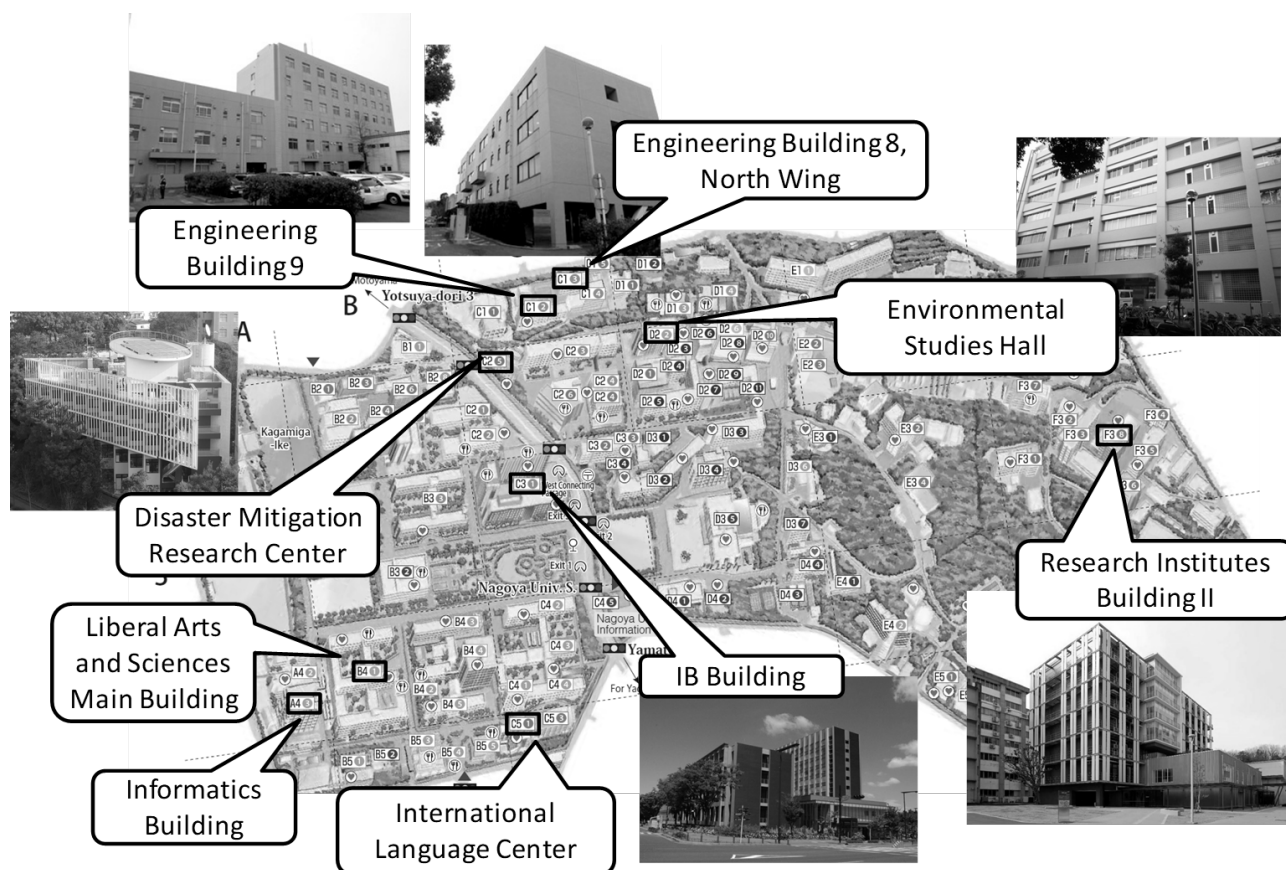
Impact Assessment				
Environmental System Analysis and Planning	TANIKAWA, Hiroki* SHIRAKAWA, Hiroaki	Professor Associate Professor	Environment Environment	E-505 E-506
Environmental Emergency Management	HIRAYAMA, Nagahisa	Associate Professor	Environmental	D-306
Microbial Ecological Engineering	KATAYAMA, Arata KASAI, Takuya	Professor Assistant Professor	Civil Civil	II-501 II-503
Ground Design	TOMITA, Takashi NAKAMURA, Shinichiro	Professor Lecturer	Civil Civil	9-301 9-307
Road Design and Transport Operation	IRYO, Miho*	Associate Professor	Environment	8-203
Material and Energy Design	HIBINO, Takashi ZINCHENKO, Anatoly* IWAMATSU, Sho-ichi	Professor Associate Professor Associate Professor	 Environment	L-S481 I-711 I-707

8: Engineering Building 8, North Wing      9: Engineering Building 9

II: Research Institutes Building II      E: Environmental Studies Hall      D: Disaster Mitigation Research Center

I: Informatics Building      L: Liberal Arts and Sciences Main Building

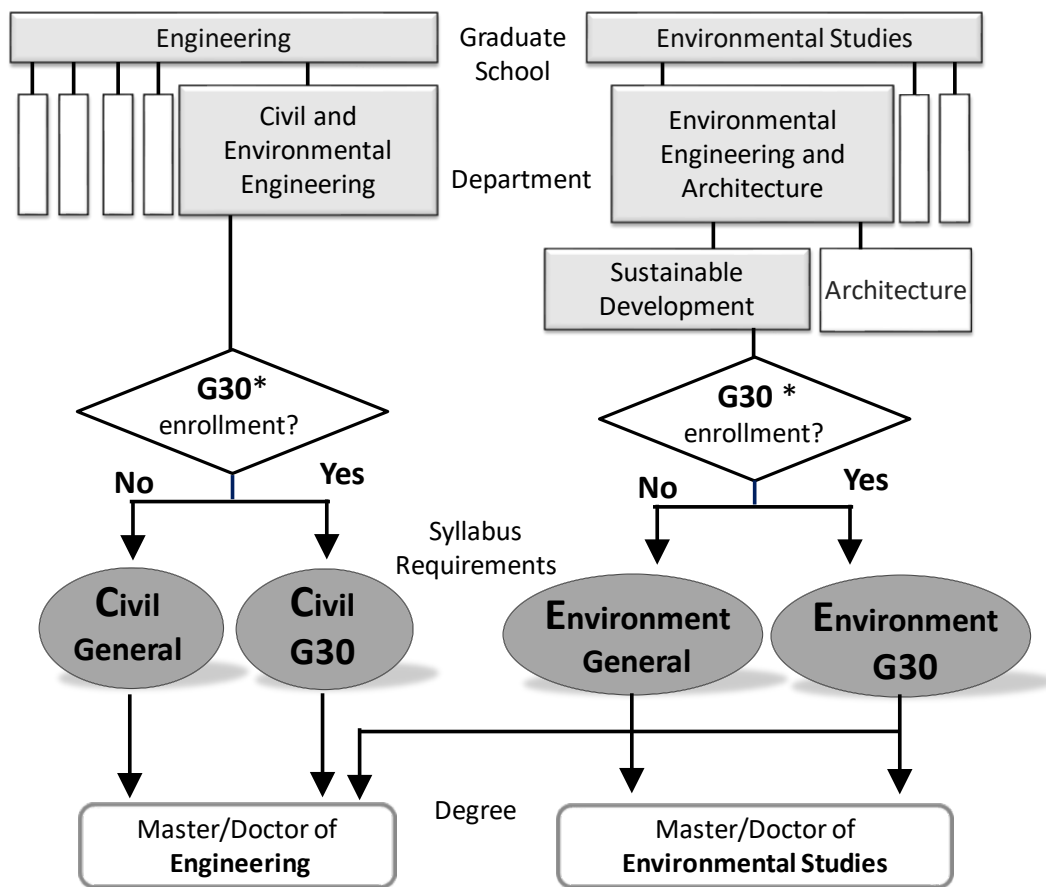
## Campus map



# Curriculum

## Courses and Degrees

Students who have completed a course of study at a graduate school shall be granted a master's/ doctoral degree. The master's/doctoral students in the Sustainable Development Course can choose a degree conferred between Master/Doctor of Engineering and Master/Doctor of Environmental Studies. Degree requirements differ by type of Department/Graduate School and Degree.



\*G30: Civil and Environmental Engineering Graduate Program of Nagoya University Global 30 International Programs



## Degree Requirements

### ◆ Department of Civil and Environmental Engineering, GSE General Students, Master/Doctor of Engineering

Master/Doctor of  
Engineering

Civil  
General

	Master's Course	Doctoral Course
Basic Courses 基礎科目	At least <b>6</b> credits including 'Frontier in Civil Engineering'	
Specialized Courses 専門科目	At least <b>19</b> credits including Seminars ( <b>8</b> credits), Selective Compulsory Lectures* ( <b>8</b> credits) and Exercise ( <b>1</b> credit)	At least <b>4</b> credits from Seminars
Courses from other departments** 他専攻等科目	At least <b>2</b> credits	
Comprehensive engineering courses 総合工学科目	A maximum of 2 credits will be recognized as credits required for completion.	
Total	At least <b>30</b> credits	At least <b>8</b> credits

Research Instruction by Academic Advisor(s) is compulsory.

#### \*Selective Compulsory Lectures

*Advanced Course in Lifecycle Design of Civil Structures / Advanced Fluvial and Coastal Hydrodynamics /  
Advanced Geotechnical Engineering / Advanced Infrastructure Planning / Sustainable City Studies /  
Advanced Numerical Analysis*

#### \*\*Courses from other departments

Of class courses offered by

- **Other Departments** of Graduate School of Engineering
- Departments of **Other Graduate Schools**
- **Graduate School Common Courses**
- Graduate Schools of Other Universities under a Credit Transfer Agreement
- Undergraduate Class Courses approved by your supervisor and the head of department

◆ **Department of Civil and Environmental Engineering, GSE**  
**G30 Students, Master/Doctor of Engineering**

Master/Doctor of  
Engineering

Civil  
G30

	Master's Course	Doctoral Course
Basic Courses 基礎科目	At least <b>6</b> credits including 'Frontier in Civil Engineering'	
Specialized Courses 専門科目	At least <b>19</b> credits including Seminars ( <b>8</b> credits), Selective Compulsory Lectures* ( <b>8</b> credits) and Exercise ( <b>1</b> credit)	At least <b>4</b> credits from Seminars
Courses from other departments** 他専攻等科目	At least <b>2</b> credits	
Comprehensive engineering courses 総合工学科目	A maximum of 2 credits will be recognized as credits required for completion.	
Total	At least <b>30</b> credits	At least <b>8</b> credits

Research Instruction by Academic Advisor(s) is compulsory.

**\*Selective Compulsory Lectures**

*Advanced Course in Lifecycle Design of Civil Structures / Advanced Fluvial and Coastal Hydrodynamics /  
Advanced Geotechnical Engineering / Advanced Infrastructure Planning / Sustainable City Studies /  
Advanced Numerical Analysis*

**\*\*Courses from other departments**

Of class courses offered by

- **Other G30 Programs** of Graduate School of Engineering
- **G30 Programs** of **Other Graduate Schools**
- **Graduate School Common Courses**
- Graduate Schools of Other Universities under a Credit Transfer Agreement
- Undergraduate Class Courses approved by your supervisor and the head of department

◆ **Department of Environmental Engineering and Architecture, GSES**  
**General Students, Master/Doctor of Engineering**

Master/Doctor of  
Engineering

Environment  
General

	Master's Course	Doctoral Course
Interdisciplinary subjects 体系理解科目	Minimum <b>4</b> credits	Minimum <b>8</b> credits from doctoral curriculum
Type 1: Lectures Type 2: Seminars Type 3: Workshops Ⅰ類, Ⅱ類, Ⅲ類	Minimum <b>20</b> credits (※1) including minimum <b>16</b> credits provided by <b>EEA*</b> , and minimum <b>8</b> credits from Type 2 subjects	
Courses provided by GS Engineering or <b>Mandatory subjects**</b> 工学研究科の授業科目, または指定科目	At least <b>4</b> credits (※2)	
Total	Minimum <b>30</b> credits or more	Minimum <b>8</b> credits

Research Instruction by Academic Advisor(s) is compulsory.

Note: You cannot have double credits of (※1) and (※2).

\***EEA:** Department of Environmental Engineering and Architecture

\*\***Mandatory subjects:** Type 1 subjects listed below: (Underlined Subjects: partially or entirely taught in English)

- *Engineering Design of Human Environment*
- *Engineering Design of Physical Environment*
- *Theoretical Analysis in Environmental Engineering*
- *Applied Continuum Mechanics*
- **Structural Analysis and Computational Mechanics**
- *Earthquake Engineering*
- **Architectural Environment System Design**
- *Seismic Design of Structures*
- *Experimental Structural Dynamics and Vibration Control*
- *Structural Materials*
- **Building Construction Engineering**
- *Special Lecture on Environmental and Architecture 1, 2*
- *Latest Structural Engineering 1, 2*
- *Methodology of Social Risk*
- *Theory of Energy Balance in Urban Space*
- *Sustainable Infrastructure Engineering*
- **Frontier in Civil Engineering**
- **Environmental Systems Analysis and Planning**
- **Transportation Systems Analysis**
- **Advanced Traffic Engineering and Management**
- **Sustainable Materials Science**
- *Recent Advances in Environmental Chemistry and Materials*

◆ **Department of Environmental Engineering and Architecture, GSES**  
**General Students, Master/Doctor of Environmental Studies**

Master/Doctor of  
Environmental Studies

Environment  
General

	Master's Course	Doctoral Course
Interdisciplinary subjects 体系理解科目	Minimum <b>8</b> credits	Minimum <b>8</b> credits from doctoral curriculum with minimum <b>2</b> credits from Common Subjects for Doctoral Course or other departments
Type 1: Lectures Type 2: Seminars Type 3: Workshops Ⅰ類, Ⅱ類, Ⅲ類	Minimum <b>20</b> credits including minimum <b>14</b> credits provided by <b>EEA*</b> , and minimum <b>8</b> credits from Type <b>2</b> subjects	
Total	Minimum <b>30</b> credits or more	Minimum <b>8</b> credits

Research Instruction by Academic Advisor(s) is compulsory.

\*EEA: Department of Environmental Engineering and Architecture

◆ **Department of Environmental Engineering and Architecture, GSES**  
**G30 Students, Master/Doctor of Engineering**

Master/Doctor of  
Engineering

Environment  
G30

	Master's Course	Doctoral Course
Interdisciplinary subjects 体系理解科目	Minimum <b>4</b> credits	Minimum <b>8</b> credits from doctoral curriculum
Type 1: Lectures Type 2: Seminars Type 3: Workshops Ⅰ類, Ⅱ類, Ⅲ類	Minimum <b>20</b> credits (※1) including minimum <b>16</b> credits provided by <b>EEA*</b> , and minimum <b>8</b> credits from Type <b>2</b> subjects	
Courses provided by GS Engineering or <b>Mandatory subjects**</b> 工学研究科の授業科目, または指定科目	At least <b>4</b> credits (※2)	
Total	Minimum <b>30</b> credits or more	Minimum <b>8</b> credits

Research Instruction by Academic Advisor(s) is compulsory.

Note: You cannot have double credits of (※1) and (※2).

\***EEA:** Department of Environmental Engineering and Architecture

\*\***Mandatory subjects:** Type 1 subjects listed below: (Underlined Subjects: partially or entirely taught in English)

- **Frontier in Civil Engineering**
- **Environmental Systems Analysis and Planning**
- **Transportation Systems Analysis**
- **Advanced Traffic Engineering and Management**
- **Water and Waste Engineering**

◆ **Department of Environmental Engineering and Architecture, GSES**  
**G30 Students, Master/Doctor of Environmental Studies**

Master/Doctor of  
Environmental Studies

Environment  
G30

	Master's Course	Doctoral Course
Interdisciplinary subjects 体系理解科目	Minimum <b>8</b> credits	Minimum <b>8</b> credits from doctoral curriculum with minimum <b>2</b> credits from Common Subjects for Doctoral Course or other departments
Type 1: Lectures Type 2: Seminars Type 3: Workshops Ⅰ類, Ⅱ類, Ⅲ類	Minimum <b>20</b> credits including minimum <b>14</b> credits provided by <b>EEA*</b> , and minimum <b>8</b> credits from Type <b>2</b> subjects	
Total	Minimum <b>30</b> credits or more	Minimum <b>8</b> credits

Research Instruction by Academic Advisor(s) is compulsory.

\***EEA:** Department of Environmental Engineering and Architecture

# Subject List

- Department of Civil and Environmental Engineering, GSE, Master's Course .....pp.13-18
- Department of Civil and Environmental Engineering, GSE, Doctoral Course .....pp.19-21
- Department of Environmental Engineering and Architecture, GSES, Master's Course ..... pp.22-26
- Department of Environmental Engineering and Architecture, GSES, Doctoral Course ..... pp.27-26

## \*Given in English:

Subjects partially or entirely taught in English

## \*Joint Classes offered by Civil Engineering and Environmental Studies

The following classes are offered by both ☐ (Dept. Civil and Environmental Eng., GSE) and ☐ (Department of Environmental Engineering and Architecture, GSES) on the same room at the same time.

You can take as courses of your major, not as courses from other departments.

<Spring semester>

Course Title	Instructor	<input type="checkbox"/> Dept. Civil and Environmental Eng., GSE	<input type="checkbox"/> Dept. of Environmental Eng. and Architecture, GSES
<input type="checkbox"/> <input type="checkbox"/> Sustainable City Studies	Tanikawa, Shandl Heinz	Specialized Courses (Lectures)	Interdisciplinary subjects
<input type="checkbox"/> <input type="checkbox"/> English Communication in Environmental Issues	Iryo Chun	Basic Courses /Lecture	Interdisciplinary subjects
<input type="checkbox"/> Advanced Urban Planning <input type="checkbox"/> Theory of Environmental Management in Urban Space	Kato(H)	Specialized Courses (Lectures)	Type 1: Lectures
<input type="checkbox"/> <input type="checkbox"/> Environmental System Analysis and Planning	Tanikawa, et. al	Specialized Courses (Lectures)	Type 1: Lectures
<input type="checkbox"/> <input type="checkbox"/> Transportation Systems Analysis	Morikawa Yamamoto Miwa	Specialized Courses (Lectures)	Type 1: Lectures
<input type="checkbox"/> <input type="checkbox"/> Advanced Traffic Engineering and Management	Nakamura(HD)	Specialized Courses (Lectures)	Type 1: Lectures
<input type="checkbox"/> <input type="checkbox"/> Frontier in Civil Engineering	Associated Faculty	Basic Courses /Lecture	Type 1: Lectures
<input type="checkbox"/> Advanced Work in Planning Methods <input type="checkbox"/> Practice in Social Systems	Miwa	Specialized Courses (Exercises)	Type 3: Workshops
<input type="checkbox"/> <input type="checkbox"/> Water and Waste Engineering	Hirayama	Specialized Courses (Exercises)	Type 1: Lectures

<Fall Semester>

Course Title	Instructor	<input type="checkbox"/> Dept. Civil and Environmental Eng., GSE	<input type="checkbox"/> Dept. of Environmental Eng. and Architecture, GSES
<input type="checkbox"/> <input type="checkbox"/> Sustainability and Environmental Studies	Tanikawa Morikawa	Basic Courses /Lecture	Interdisciplinary subjects
<input type="checkbox"/> <input type="checkbox"/> Civil Engineering and Policies for Developing Countries I	Hayashi	Basic Courses /Lecture	Interdisciplinary subjects
<input type="checkbox"/> <input type="checkbox"/> Civil Engineering and Policies for Developing Countries II	Associated Faculty	Basic Courses /Lecture	Interdisciplinary subjects
<input type="checkbox"/> <input type="checkbox"/> Environmental Urban Systems	Iryo	Specialized Courses (Lectures)	Interdisciplinary subjects
<input type="checkbox"/> <input type="checkbox"/> Environmental Industry Systems	Tanikawa Iryo	Specialized Courses (Lectures)	Type 1: Lectures
<input type="checkbox"/> <input type="checkbox"/> Climate Change and Infrastructure	Iryo	Specialized Courses (Lectures)	Type 1: Lectures
<input type="checkbox"/> <input type="checkbox"/> Practice in Environmental Systems Analysis and Planning	Tanikawa Hayashi	Specialized Courses (Exercises)	Type 3: Workshops

< Occasional >

Course Title	Instructor	<input type="checkbox"/> Dept. Civil and Environmental Eng., GSE	<input type="checkbox"/> Dept. of Environmental Eng. and Architecture, GSES
<input type="checkbox"/> Global Research Internship 1 (for Master's course) <input type="checkbox"/> Global Research Internship 2 (for Doctoral course) <input type="checkbox"/> Global Research Internship (for Master's course)	Associated Faculty	Specialized Courses (Exercises)	Type 3: Workshops

\* If you are a doctoral course student of Dept. of Environmental Eng. and Architecture, GSES, please take 'Global Research Internship'.



# Department of Civil and Environmental Engineering, GSE

## Master's Course



### ■ Basic Courses / Lecture

基礎科目

Course Title	Instructor	Credits	Semester	Given in English	Joint Class with GSES	<div>■ Compulsory</div> <div>○ Elective</div>		
						General	G30	NUGELP certificate
Frontier in Civil Engineering 土木工学のフロンティア	Associated Faculty	2	Spring 1	✓	✓	■	■	
Project in Civil Engineering A 土木工学総合プロジェクト A	Associated Faculty	2	Spring 1					
Project in Civil Engineering B 土木工学総合プロジェクト B	Associated Faculty	2	Fall 1					
Civil Engineering and Policies for Developing Countries I 途上国開発特論 I	Hayashi, Iryo	2	Fall 1 or 2	✓	✓			○
Civil Engineering and Policies for Developing Countries II 途上国開発特論 II	Associated Faculty	2		✓	✓			○
English Communication in Environmental Issues 環境コミュニケーション	Iryo, Chun	2	Spring 1	✓	✓			■
Sustainability and Environmental Studies 持続可能性と環境学	Tanikawa, Iryo, Zinchenko	2	Fall 1	✓	✓			○



## ■ Specialized Courses (Seminars)

専門科目（セミナー）

Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory		
					General	G30	NUGELP certificate
Seminar on Structural Engineering 構造工学セミナー	Kato(J), Nishiguchi	1A: 2 1B: 2 1C: 2 1D: 2	<General> 1A: Spring 1 1B: Fall 1 1C: Spring 2 1D: Fall 2  <G30> 1A: Fall 1 1B: Spring 1 1C: Fall 2 1D: Spring 2	✓			
Seminar on Materials and Structural Design 材料・形態学セミナー	Nakamura(HK), Miura						
Seminar on Conservation Engineering of River Basins 流域保全学セミナー	Toda, Tsubaki						
Seminar on Coastal and Maritime Engineering 海岸・海洋工学セミナー	Mizutani, Nakamura(T)						
Seminar on Geomaterial Engineering 地盤材料工学セミナー	Nakano						
Seminar on Disaster Prevention and Safety Engineering 国土防災安全工学セミナー	Noda, Nakai						
Seminar on Maintenance of Civil Structures 社会基盤維持管理学セミナー	Tateishi, Hanji						
Land Design Seminar 国土デザイン学セミナー	Nakamura(S)						
Seminar on Conservation of Geoenvironment 地圏環境保全学セミナー	Katayama						
Global Environmental Cooperation Seminar 国際環境協力セミナー	Hayashi						
Seminar on Environmental Ecology System 環境エコロジーシステムセミナー	Yamamoto, Miwa						
International research project seminar I 国際協働プロジェクトセミナー I	Associated Faculty	2～4	All semesters				



## ■ Specialized Courses (Lectures)

専門科目（講義）

Course Title	Instructor	Credits	Semester	Given in English	Joint Class with GSES	<div> <div>■ Compulsory</div> <div>● Selective Compulsory</div> <div>○ Elective</div> </div>		
						General	G30	NUGELP certificate
Advanced Course in Lifecycle Design of Civil Structures 社会基盤施設のライフサイクル設計特論	Nakamura(HK), Hanji, Nishiguchi	2	Fall 1	✓		●	●	
Advanced Fluvial and Coastal Hydrodynamics 水圏力学特論	Nakamura(T), Tsubaki	2	Spring 1	✓		●	●	
Advanced Geotechnical Engineering 地盤工学特論	Noda, Nakai	2	Fall 1	✓		●	●	
Advanced Infrastructure Planning 社会基盤計画学特論	Morikawa, Yamamoto	2	Fall 1	✓		●	●	
Sustainable City Studies サステナブル都市学	Tanikawa, Shandl Heinz	2	Spring 1	✓	✓	●	●	○
Advanced Numerical Analysis 数値解析特論	Miwa, Nakai, Nakamura(T), Nishiguchi	2	Spring 1	✓		●	●	
Advanced Steel Structures 鋼構造工学特論	Tateishi	2	Spring 1	✓				
Advanced Concrete Structures コンクリート構造工学特論	Nakamura(HK) Miura	2	Spring 1	✓				
Advanced Theory of River Basin Management 河川・流域圏管理学特論	Toda	2	Spring 1	✓				
Advanced Mechanics of Geomaterials 地盤材料力学特論	Nakano	2	Spring 1	✓				
Advanced Traffic Engineering and Management 交通工学特論	Nakamura(HD)	2	Spring 1	✓	✓			
Advanced Urban Planning 都市計画特論	Kato(H)	2	Spring 1	✓	✓			

Course Title	Instructor	Credits	Semester	Given in English	Joint Class with GSES	■ Compulsory ● Selective Compulsory ○ Elective		
						General	G30	NUGELP certificate
Conservation and Ecotoxicology of Soil and Water 土水環境保全学特論	Katayama	2	Spring 1	✓				
Environmental System Analysis and Planning 環境社会システム工学	Tanikawa, Fujita, Nanzai	2	Spring 1	✓	✓			
Advanced Continuum Mechanics 連続体力学特論	Nakano, Noda	2	Spring 1	✓				
Advanced Structural Mechanics 構造力学特論	Kato (J), Nishiguchi	2	Fall 1	✓				
Advanced Coastal and Offshore Engineering 海工学特論	Mizutani, Nakamura(T)	2	Fall 1	✓				
Advanced Soil Dynamics 地盤動力学特論	Noda, Nakai	2	Fall 1	✓				
Tectonic geomorphology 変動地形学特論	Suzuki	2	Fall 1					
Water and Waste Engineering 水・廃棄物工学	Hirayama	2	Spring 1	✓	✓			
Climate Change and Infrastructure 気候変動と社会基盤	Iryo	2	Fall 1	✓	✓			○
Environmental Industry Systems 環境産業システム論	Tanikawa, Iryo	2	Fall 1	✓	✓			○
Environmental Urban Systems 環境都市システム論	Iryo	2	Fall 1	✓	✓			
Transportation Systems Analysis 交通システム分析	Morikawa, Yamamoto, Miwa	2	Spring 1, 2	✓	✓			



Civil  
General

Civil  
G30

## ■ Specialized Courses (Exercises)

専門科目（演習）

Course Title	Instructor	Credits	Semester	Given in English	Joint Class with GSES	■ Compulsory		
						General	G30	NUGELP certificate
Exercise in Inspection of Civil Structures インフラ検査・点検演習	Tateishi, Nakamura(HK), Hanji, Miura	1	Spring 1	✓				
Advanced Work in Hydro-morphologic Processes 流れ・地形解析学演習	Tsubaki	1	Spring 1	✓				
Advanced Work in Planning Methods 社会基盤計画学演習	Miwa	1	Spring 1	✓	✓			
Advanced Work in Structural Mechanics 構造力学特論演習	Kato (J), Nishiguchi	1	Fall 1	✓				
Advanced Work in Coastal and Offshore Engineering 海工学演習	Mizutani, Nakamura(T)	1	Fall 1	✓				
Advanced Work in Soil Mechanics and Geotechnical Engineering 地盤力学総合演習	Nakano, Noda, Nakai	1	Fall 1	✓				
Exercise on Conservation and Ecotoxicology of Soil and Water 土水環境保全学演習	Katayama	1	Fall 1	✓				
Practice in Environmental Systems Analysis and Planning 環境社会システム工学演習	Tanikawa, Hayashi Shirakawa	1	Fall 1	✓	✓			
Global Research Internship 1 グローバル研究インターシップ 1	Associated Faculty	2	Occasional	✓	✓			■



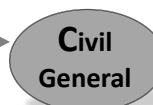
## ■ Comprehensive Engineering Courses

総合工学科目

Course Title	Instructor	Credits	Semester	Given in English	General	G30	NUGELP certificate
Innovation Practice Course イノベーション体験プロジェクト	Doki	4	All semesters	✓			
研究インターンシップ 1 Research Internship 1	Doki	2~8	All semesters	✓			
Advanced Lectures on Frontier Technologies and Sciences 最先端理工学特論	Deki	1	All semesters	✓			
Advanced Experiments for Frontier Technologies and Sciences 最先端理工学実験	Deki	1	All semesters	✓			
Introduction to Academic Communication コミュニケーション学	Furuya	1	Fall 1, 2	✓			
Latest Advanced Technology and Tasks in Automobile Engineering 先端自動車工学特論	Sakai	3	Spring 1, 2				
Advanced Lectures on Scientific English 科学技術英語特論	Part-time Faculty	1	Fall 1, 2	✓			
Focus on Venture Business I ベンチャービジネス特論 I	Deki	2	Spring 1, 2	✓			
Focus on Venture Business II ベンチャービジネス特論 II	Deki	2	Fall 1, 2	✓			
Internship A 学外実習 A	Associated Faculty	1	All semesters	✓			

# Department of Civil and Environmental Engineering, GSE

## Doctoral Course



### ■ Specialized Courses (Seminars)

専門科目（セミナー）

Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory ○ Elective			
					General	G30	NUGELP certificate	Forefront certificate
Seminar on Structural Engineering 構造工学セミナー	Kato (J), Nishiguchi	2A: 2 2B: 2 2C: 2 2D: 2 2E: 2	<General> 2A: Spring 1 2B: Fall 1 2C: Spring 2 2D: Fall 2 2E: Spring 3  <G30> 2A: Fall 1 2B: Spring 1 2C: Fall 2 2D: Spring 2 2E: Fall 3	✓				
Seminar on Materials and Structural Design 材料・形態学セミナー	Nakamura(HK), Miura							
Seminar on Conservation Engineering of River Basins 流域保全学セミナー	Toda, Tsubaki							
Seminar on Coastal and Maritime Engineering 海岸・海洋工学セミナー	Mizutani, Nakamura(T)							
Seminar on Geomaterial Engineering 地盤材料工学セミナー	Nakano							
Seminar on Disaster Prevention and Safety Engineering 国土防災安全工学セミナー	Noda, Nakai							
Seminar on Maintenance of Civil Structures 社会基盤維持管理学セミナー	Tateishi, Hanji							
Land Design Seminar 国土デザイン学セミナー	Nakamura(S)							
Seminar on Conservation of Geoenvironment 地圏環境保全学セミナー	Katayama							
Global Environmental Cooperation Seminar 国際環境協力セミナー	Hayashi							
Seminar on Environmental Ecology System 環境エコロジーシステムセミナー	Yamamoto, Miwa							

GLOCAL Leaders Seminar グローバル人材育成セミナー	Associated Faculty	2	Fall 2	✓				■
Global Environmental Seminar I 地球環境セミナー I	Associated Faculty	2	Spring, Fall 1	✓				○
Global Environmental Seminar II 地球環境セミナー II	Associated Faculty	2	Spring, Fall 1	✓				○
International research project seminar II 国際協働プロジェクトセミナー II	Associated Faculty	2~4	Spring, Fall 1 Spring, Fall 2					



## ■ Specialized Courses (Exercises)

専門科目（演習）

Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory			
					General	G30	NUGELP certificate	Forefront certificate
Global Research Internship 2 グローバル研究インターンシップ 2	Associated Faculty	2	Occasional	✓				■



## ■ Comprehensive Engineering Courses

総合工学科目

Course Title	Instructor	Credits	Semester	Given in English	General	G30	NUGELP certificate	Forefront certificate
Teaching and Instruction Exercise 1 実験指導体験実習 1	Doki	1	All semesters					
Teaching and Instruction Exercise 2 実験指導体験実習 2	Deki	1	All semesters					
Research Internship 2 研究インターンシップ 2	Doki	2~8	All semesters					



■ Courses of Master's programs provided by  
the Graduate School of Engineering

工学研究科前期課程の科目



Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory ○ Elective			
					General	G30	NUGELP certificate	Forefront certificate
Civil Engineering and Policies for Developing Countries I 途上国開発特論 I	Hayashi	2	Fall 1 or 2 (Course of Master's programs)	✓			■	○
Civil Engineering and Policies for Developing Countries II 途上国開発特論 II	Associated Faculty	2		✓			■	○
Except for the above, students including G30 students can register courses of Master's programs (excluding already acquired) as degree credits of Doctoral course. See the website of the GSE (http://syllabus.engg.nagoya-u.ac.jp/syllabus/)								

## Department of Environmental Engineering and Architecture, GSES Master's Course

The following lists display only the subjects provided by faculties belonging to the civil and environmental engineering group. As for the detail of each subjects and/or the other courses, visit to the website of GSES ([http://www.env.nagoya-u.ac.jp/students/index.html#students\\_03](http://www.env.nagoya-u.ac.jp/students/index.html#students_03)) .



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### ■ Interdisciplinary subjects

体系理解科目

Course Title	Instructor	Credits	Semester	Given in English	Joint Class with GSE	<div>■ Compulsory</div> <div>○ Elective</div>		
						General	G30	NUGELP certificate
Sustainability and Environmental Studies 持続可能性と環境学	Tanikawa, Iryo, Zinchenko	2	Fall 1, 2	✓	✓			○
Civil Engineering and Policies for Developing Countries I 途上国開発特論 I	Iryo, Hayashi	2	Fall 1 or 2	✓	✓			○
Civil Engineering and Policies for Developing Countries II 途上国開発特論 II	Tomita et al.	2		✓	✓			○
Environmental Urban Systems 環境都市システム論	Iryo	2	Fall 1	✓	✓			
Sustainable City Studies サステナブル都市学	Tanikawa, Shandl Heinz	2	Spring 1	✓	✓			○
English Communication in Environmental Issues 環境コミュニケーション	Iryo, Chun	2	Spring 1	✓	✓			■



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## ■ Type 1 subject: Lectures

I 類科目 (講義)

Course Title	Instructor	Credits	Semester	Given in English	Joint Class with GSE	<div> <div>■ Compulsory</div> <div>○ Elective</div> </div>		
						General	G30	NUGELP certificate
Spatial Development and Environment 空間環境システム論*	Tomita	2	Fall 1, 2	✓				
Theory of Environmental Management in Urban Space 都市空間環境マネジメント論	Kato(H)	2	Spring 1, 2	✓	✓			
Environmental Systems Analysis and Planning 環境社会システム工学	Tanikawa	2	Spring 1, 2	✓	✓			
Environmental Industry Systems 環境産業システム論	Tanikawa, Morikawa, Iryo	2	Fall 1, 2	✓	✓			○
Climate Change and Infrastructure 気候変動と社会基盤	Iryo	2	Fall 1, 2	✓	✓			○
Transportation Systems Analysis 交通システム分析	Morikawa	2	Spring 1, 2	✓	✓			
Advanced Traffic Engineering and Management 交通工学特論	Nakamura(HD)	2	Spring 1, 2	✓	✓			
Frontier in Civil Engineering 土木工学のフロンティア	Associated Faculty	2	Spring 1,2	✓	✓			
Water and Waste Engineering 水・廃棄物工学	Hirayama	2	Spring 1, 2	✓	✓			
Environmental Risk 環境リスク論	Tomita (K) Hayashi (R)	2	Fall 1, 2	✓				
Functional Molecules for Environment 環境機能物性論	Hibino	2	Spring 1, 2					

Sustainable Materials Science サステナブル物質科学サステナブル物質科学	Zinchenko	2	Spring 1, 2	✓				
Recent advances in Environmental Chemistry and Materials 環境物質化学動向論	Iwamatsu	2	Fall 1, 2					
Project Finding in Urban Environment 都市環境総合プロジェクト	Iwamatsu	2	Intensive					

\* "Spatial Development and Environment" will be offered in AY 2022 but not in AY 2023.



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## ■ Type 2 subject: Seminars

Ⅱ 類科目 (セミナー)

Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory		
					General	G30	NUGELP certificate
Seminar on Urban Space and Environment 2 空間環境学セミナー2	Kato(H)	A: 2 B: 2 C: 2 D: 2	A: Spring 1 B: Fall 1 C: Spring 2 D: Fall 2	✓			
Seminar on Urban Space and Environment 3 空間環境学セミナー3	Morikawa						
Seminar on Urban Space and Environment 4 空間環境学セミナー4	Nakamura(HD), Iryo						
Seminar on Urban Space and Environment 5 空間環境学セミナー5	Tanikawa, Shirakawa						
Seminar on Urban Space and Environment 7 空間環境学セミナー7	Hirayama						
Seminar on Material and Environment 1 物質環境学セミナー1	Hibino						
Seminar on Material and Environment 2 物質環境学セミナー2	Zinchenko, Iwamatsu						



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## ■ Type 3 subject: Workshops

Ⅲ類科目（実習）

Course Title	Instructor	Credits	Semester	Given in English	Joint Class with GSE	■ Compulsory		
						General	G30	NUGELP certificate
Practice in Environmental Systems Analysis and Planning 環境社会システム工学実習	Tanikawa, Hayashi, Shirakawa	1	Fall 1, 2	✓	✓			
Practice in Social Systems 社会システム分析実習	Morikawa, Miwa	1	Spring 1, 2	✓	✓			
Global Research Internship グローバル研究インターンシップ	Tanikawa, Morikawa Iryo	2	Occasion al	✓	✓			■



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## ■ Mandatory Subjects

指定科目

For Master degree of Engineering, Master's students in the Spatial Planning and Environment Course can take the below Type 1 subjects as "Mandatory subjects".

Course Title	Instructor	Credits	Semester	Given in English	Joint Class with GSE	General	G30
Frontier in Civil Engineering 土木工学のフロンティア	Associated Faculty	2	Spring 1,2	✓	✓		
Environmental Systems Analysis and Planning 環境社会システム工学	Tanikawa	2	Spring 1,2	✓	✓		
Transportation Systems Analysis 交通システム分析	Morikawa	2	Spring 1,2	✓	✓		
Advanced Traffic Engineering and Management 交通工学特論	Nakamura(HD)	2	Spring 1,2	✓	✓		
Water and Waste Engineering 水・廃棄物工学	Hirayama	2	Spring 1,2	✓	✓		

Sustainable Materials Science サステナブル物質科学	Zinchenko	2	Spring 1,2	✓			
Recent advances in Environmental Chemistry and Materials 環境物質化学動向論	Iwamatsu	2	Fall 1,2				
Engineering Design of Human Environment 人間環境設計学	Saito	2	Fall 1,2				
Engineering Design of Physical Environment 物理環境設計学	Tanaka	2	1,2				
Theoretical Analysis in Environmental Engineering 環境解析特論	Saito, Tanaka	2	Spring 1,2				
Applied Continuum Mechanics 応用連続体力学		2	1,2				
Structural Analysis and Computational Mechanics 構造解析学	Araki	2	Spring 1,2	✓			
Earthquake Engineering 地震工学	Fukuwa	2	Spring 1,2				
Architectural Environment System Design 建築環境システム設計学	Tanaka	2	Fall 1,2	✓			
Seismic Design of Structures 耐震設計工学	Mori(M)	2	Spring 1,2				
Experimental Structural Dynamics and Vibration Control 振動モニタリング工学	Tobita, Nagae	2	Fall 1,2				
Structural Materials 構造材料学	Hibino(Y)	2	Fall 1,2	✓			
Building Construction Engineering 建築生産設計工学	Maruyama	2	Fall 1,2	✓			
Special Lecture on Environment and Architecture 1,2 環境建築学特別講義 1,2	Part-time Faculty	1	Alternate				
Latest Structural Engineering 1,2 最新構造工学特別講義 1,2	Part-time Faculty	1	Alternate				
Methodology of Social Risk 社会リスク科学	Mori(Y)	2	Spring 1,2				
Sustainable Infrastructure Engineering 社会基盤保全工学	Ozaki	2	Fall 1,2				
Architectural and Urban Environmental Engineering 建築・都市環境工学	Iizuka	2	Fall 1,2				

## Department of Environmental Engineering and Architecture, GSES

### Doctoral Course

The following lists display only the subjects provided by faculties belonging to the civil and environmental engineering group. As for the detail of each subjects and/or the other courses, visit to the website of GSES ([http://www.env.nagoya-u.ac.jp/students/index.html#students\\_03](http://www.env.nagoya-u.ac.jp/students/index.html#students_03)) .



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#### ■ Seminars

セミナー

Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory			
					General	G30	NUGELP certificate	Forefront certificate
Seminar on Urban Space and Environment 2 空間環境学セミナー2	Kato(H)	E: 2 F: 2 G: 2 H: 2	E: Spring 1 F: Fall 1 G: Spring 2 H: Fall 2	✓			■■■■ Seminars by Academic Advisor (total 8 credits) are compulsory	
Seminar on Urban Space and Environment 3 空間環境学セミナー3	Morikawa							
Seminar on Urban Space and Environment 4 空間環境学セミナー4	Nakamura(HD), Iryo							
Seminar on Urban Space and Environment 5 空間環境学セミナー5	Tanikawa, Shirakawa							
Seminar on Urban Space and Environment 7 空間環境学セミナー7	Hirayama							
Seminar on Material and Environment 1 物質環境学セミナー1	Hibino							
Seminar on Material and Environment 2 物質環境学セミナー2	Zinchenko, Iwamatsu							



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## ■ GSES common subjects

研究科共通科目

Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory			
					General	G30	NUGELP certificate	Forefront certificate
Classes and Research Instruction in Basic Environmental Studies I 基礎環境学講究 1	Takano, Kato(H), Sugiyama	2	Occasional 1,2	✓			■	
Classes and Research Instruction in Basic Environmental Studies II 基礎環境学講究 2	Takano, Kato(H), Sugiyama	2	Occasional 2	✓				
On-site Research Training in Clinical Environmental Studies I 臨床環境学研修 1	Kato(H), Takano, Hirano Kawamura, Sugiyama	2	Occasional 1,2	✓			■	
On-site Research Training in Clinical Environmental Studies II 臨床環境学研修 2	Kato(H), Takano, Hirano Kawamura, Sugiyama	2	Occasional 2	✓				



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## ■ Courses of the Master's programs provided by GSES

環境学研究科前期課程の科目

Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory ○ Elective			
					General	G30	NUGELP certificate	Forefront certificate
Global Research Internship グローバル研究インターンシップ	Tanikawa, Morikawa Iryo	2	Occasional	✓				■
Civil Engineering and Policies for Developing Countries I 途上国開発特論 I	Iryo, Hayashi	2	Fall 1 or 2	✓			■	○
Civil Engineering and Policies for Developing Countries II 途上国開発特論 II	Tomita et al.	2		✓			■	○





Environment  
General

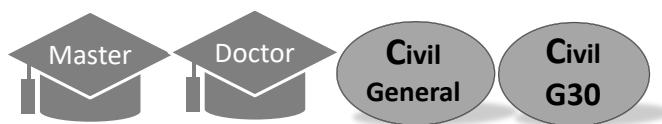
Environment  
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## ■ Courses of the Graduate School of Engineering

工学研究科の科目

Course Title	Instructor	Credits	Semester	Given in English	■ Compulsory ○ Elective			
					General	G30	NUGELP certificate	Forefront certificate
GLOCAL Leaders Seminar グローバル人材育成セミナー	Associated Faculty	2	Fall 2	✓				■
Global Environmental Seminar I 地球環境セミナー I	Associated Faculty	2	Spring, Fall 1	✓				○
Global Environmental Seminar II 地球環境セミナー II	Associated Faculty	2	Spring, Fall 1	✓				○





## ◆ Online Course Registration

Web 履修登録

- ✓ Students are required to do Course Registration on the NU (Nagoya University) Portal using your Nagoya University ID every semester. Login to NU Portal <https://portal.nagoya-u.ac.jp/> ⇒ Click on "Student Affairs" ⇒ Click on "Course Registration" from "Course/Grades" on the menu bar.

\*New students can log in to the NU Portal from the day of enrollment (April 1)

\***Registration period for AY2022 Spring semester:**

**April 2, 9:00 – April 3, 12:30 and April 4, 18:30 – April 5, 11:00.**

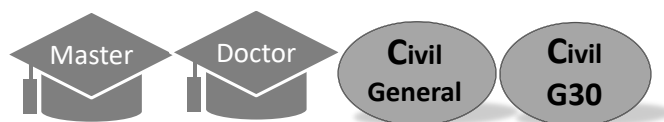
- ✓ The timetable and syllabus are available on the website of Graduate School of Engineering: <http://www.engg.nagoya-u.ac.jp/> ⇒ "Current Students"
- ✓ If you want to take "Other graduate schools' classes" or "Graduate School Common Courses", you need to submit the "Registration Request Form" (see the next page), in addition to online
- ✓ For convenience, all courses are set as "Intensive Lecture". Find and enter the course you want to take from "Intensive" in the "Course Registration" menu. There may be multiple classes with the same course title, such as "Seminar" and "Experiments and Exercises", so please be careful when selecting a course.
- ✓ Avoid input during maintenance periods (6pm-7pm, 4am-5am). It is not possible to guarantee the entered data.
- ✓ If students have lost their Nagoya University ID or there are issues with their password, please contact the Information Media Office (e-office@media.nagoya-u.ac.jp) Re-issuance may take approximately 1 week.
- ✓ For queries concerning the course registration contact the Student Affairs Division, Graduate School of Engineering (koukyomu@adm.nagoya-u.ac.jp)

**NOTE:** In addition to the online course registration to NU Portal, in order to browse the "NUCT" lecture site of each class, please contact the instructor in charge by e-mail and ask them to register yourselves on the lecture site before the class starts. Be sure to include your name and student number in the email.

If you do not know the e-mail address of the instructor who is in charge of the class, please check the Web syllabus or search on the Nagoya University website.

【How to use NUCT】

<https://ct.nagoya-u.ac.jp/portal/site/!gateway/page/1470deea-bcfd-488a-87fb-6105063568ca>



## ◆ Registration Request Form

履修願

- ✓ **In case of registering “Other Graduate Schools’ classes” or “Graduate School Common Courses”,** you must submit a “Registration Request” to the Student Affairs Division of GSE (2nd floor, IB Building) by the deadline (2022 Spring semester: April 18, 10:30 am).
- ✓ **For 2022 spring semester, if you cannot come to university, please submit the form to your academic advisor, and ask to stamp and submit to the Student Affairs Division of GSE instead of you.**
- ✓ Please note that if the request is not submitted during this period, the credits earned may not be counted towards credits necessary for graduation or completion.
- ✓ Please get the form at the Student Affairs Division of GSE every semester (you can download from the website of the Graduate School of Engineering as a Microsoft Word file).

Sample

Approval Seal (Head of Department)	
Approval Seal (Academic Adviser)	

工学部長 殿

工学研究科長

Date of Application      /      /2022

Date of Enrollment:      /      /     

month      year

Department(Program):

Year of Study:

Student No:

N a m e :      seal/signature

Contact(Cell phone, etc.):

**Registration Request Form**  
 I hereby apply for permission to take the course listed below.

Faculty in charge	Registration Code	Course Title	Semester (Spring/Autumn)	Day and Period	Credit Value	Contents of Credits for Approval ※Check the corresponding item. ※Refer to note.	Name of School/ Grad. School	Online Registration ※If "Done", check "L"
						<input type="checkbox"/> Course Completion Credits <input type="checkbox"/> Optional Credits		
						<input type="checkbox"/> Course Completion Credits <input type="checkbox"/> Optional Credits		
						<input type="checkbox"/> Course Completion Credits <input type="checkbox"/> Optional Credits		
						<input type="checkbox"/> Course Completion Credits <input type="checkbox"/> Optional Credits		

[Note]

1. Contents of Credits for Approval (Mark the appropriate item.)  
 Course Completion Credits : Courses which credits be counted as credits necessary for graduation or completion  
 ※ Approval seals of Head of Department, Academic Adviser and Faculty in charge are necessary.  
 Optional Credits : Courses registered but without credits awarded (Take a course as an "Optional Course").  
 ※ Only for this semester, Approval seals of Academic Adviser and Faculty in charge are not required, but please obtain the permission of each faculty member by e-mail etc. and write it in the body of your e-mail. Approval seals of Head of department is not necessary.

2. In addition to submission of "Registration Request", students should complete online registration.  
 (Graduate students should complete a "Plan for Completion of Course".)

3. This form should be submitted separately to each registration division or school.

4. Note that credits may not be counted towards graduation or completion in case this form is not submitted by the deadline.

**Submission Deadline(Spring Semester) : April 18 (Mon)10:30am**  
**Submit to : Student Affairs Division, School/Graduate School of Engineering**  
 ※In the case of intensive lectures, submit at least one week before the lecture starts.

Note: The above format is for the spring semester of AY 2022. Please get the latest format every term.

# Department of Environmental Engineering and Architecture, GSES



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General

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## ◆ Course Plan

### 履修計画書

- ✓ The form can be downloaded from the GSES online bulletin board (Current Students > Messages from GSES Student Affairs Office), as a Microsoft Word file. (User ID: k-stud and password: 4590)  
<http://office.env.nagoya-u.ac.jp/students/bulletin/keiji.php?menuNO=2>
- ✓ Consult with your supervisor and make your course plan (2 years for Master students/3 years for Doctoral students). After filling out the all the items in the Course Plan form, submit to your academic adviser via e-mail by **April 22, 5:00 pm.**
- ✓ You need to fill out a lead advisor and no less than one advisor. (No need to have your supervisor's seal.)
- ✓ Please send the form to the International Programs Office (ceeipo@urban.env.nagoya-u.ac.jp) to confirm that your plan meets the International Program requirements. (Deadline: **April 22**)

Sample

### 大学院環境学研究科履修計画書（博士前期課程）

#### <Course Plan for Master's Program>

Year of Enrolment: 年度入学		Date: 年 月 日	
専攻名 Department	Department of	専攻 所属講座名 /分野名 Unit/Research Field	講座 分野
氏名 Name	学生番号 Student ID No.		
主指導教員 Lead Advisor	副指導教員 Advisor 1		
副指導教員 Advisor 2	副指導教員 Advisor 3		
取得予定学位 Degree Desired	修士 ( ) Master of ( )		
履修科目 Subject Selected	科目区分 Category	授業科目名 Subject Title	単位 Credits
Total Credits: 合計 単位			
備考 Memo			

\*\* Please ensure that your course plan meets the requirements for the completion of the program.

Master's Program

### 大学院環境学研究科履修計画書（博士後期課程）

#### <Course Plan for Doctoral Program>

Year of Enrolment: 年度入学		Date: 年 月 日	
専攻名 Department	Department of	専攻 所属講座名 /分野名 Unit/Research Field	講座 分野
氏名 Name	学生番号 Student ID No.		
主指導教員 Lead Advisor	副指導教員 Advisor 1		
副指導教員 Advisor 2	副指導教員 Advisor 3		
取得予定学位 Degree Desired	博士 ( ) Doctor of ( )		
履修科目 Subject Selected	授業科目名 Subject Title	単位 Credits	授業科目名 Subject Title
Total Credits: 合計 単位			
備考 Memo			

\*\* Please ensure that your course plan meets the requirements for the completion of the program.

Doctoral Program



## ◆ Research Plan

### 研究計画書

- ✓ The form can be downloaded from the GSES online bulletin board (Current Students > Messages from GSES Student Affairs Office), as a Microsoft Word file. (User ID: k-stud and password: 4590)  
<http://office.env.nagoya-u.ac.jp/students/bulletin/keiji.php?menuNO=2>
- ✓ Submit to your academic advisor as a provisional version via e-mail by **April 22 (Friday)**. After you receive the "Research Supervision Plan" from your academic advisor, please make corrections as necessary and submit the completed version to your academic advisor via email by **May 13 (Friday)**. (No need to have your supervisor's seal.)

Sample

1. 4月22日（金）までに指導教員に仮提出すること。  
Submission data for provisional version to your advisor: April 22, 2022  
提出後、指導教員と相談の上、適宜加筆修正してください。  
Consult your advisor for the revision

2. 5月13日（金）までに指導教員を最終提出すること。指導教員を通じて大学院係に提出する。  
Submission data for final version to your advisor: May 13, 2022 transferred to the Student Affairs Office

別紙様式

名古屋大学大学院環境学研究科 研究計画書  
Research Plan for Master's Program

氏名 Name	学生番号 Student ID No.			
専攻・講座/分科 Unit/Research Field	専攻 Department	講座/分科 Unit/Research Field	入学年度 Admission Year/Month	年 月 (Y) (M)

課程 Course	卒業・修了年月日 Graduation Year/Month		出身大学・学部・研究科 Name of University, School, Graduate School	
学部 Bachelor Course	年 (Y)	月 (M)	卒業 Graduation	大学 University
修士・博士前期 Master's Course	年 (Y)	月 (M)	修了 Graduation	大学院 University
博士・博士後期 Doctoral Course	年 (Y)	月 (M)	修了 Graduation 退学 Withdrawal	大学院 University

研究題目  
Research Topic

主指導教員  
Lead Advisor

研究計画 Research Plan

研究計画書提出日  
Submission Date

年 (Y) 月 (M) 日 (D)

※教員からの提出を以て、押印の代替とする。

1. 4月22日（金）までに指導教員に仮提出すること。  
Submission data for provisional version to your advisor: April 22, 2022  
提出後、指導教員と相談の上、適宜加筆修正してください。  
Consult your advisor for the revision

2. 5月13日（金）までに指導教員を最終提出すること。指導教員を通じて大学院係に提出する。  
Submission data for final version to your advisor: May 13, 2022 transferred to the Student Affairs Office

別紙様式

名古屋大学大学院環境学研究科 研究計画書  
Research Plan for Doctoral Program

氏名 Name	学生番号 Student ID No.			
専攻・講座/分科 Unit/Research Field	専攻 Department	講座/分科 Unit/Research Field	入学年度 Admission Year/Month	年 月 (Y) (M)

課程 Course	卒業・修了年月日 Graduation Year/Month		出身大学・学部・研究科 Name of University, School, Graduate School	
学部 Bachelor Course	年 (Y)	月 (M)	卒業 Graduation	大学 University
修士・博士前期 Master's Course	年 (Y)	月 (M)	修了 Graduation	大学院 University
博士・博士後期 Doctoral Course	年 (Y)	月 (M)	修了 Graduation 退学 Withdrawal	大学院 University

研究題目  
Research Topic

主指導教員  
Lead Advisor

研究計画 Research Plan

研究計画書提出日  
Submission Date

年 (Y) 月 (M) 日 (D)

※教員からの提出を以て、押印の代替とする。



## ◆ Online Course Registration

Web 履修申請

- ✓ The Course Time Table is downloadable from GSES online bulletin board (User ID: k-stud and password: 4590). <http://office.env.nagoya-u.ac.jp/students/bulletin/keiji.php?menuNO=2>
- ✓ The syllabus is available from the following website. Please check the syllabus about how to conduct the courses (face-to-face classes/online classes), or ask the instructor. <https://syllabus.adm.nagoya-u.ac.jp>
- ✓ The Students are required to do Course Registration on the NU Portal. Please register the course for which you have permission to attend.

**Registration Period: April 2, 9:00 – April 3, 12:30 and April 4, 18:30 – April 5, 11:00**

Login to NU Portal <https://portal.nagoya-u.ac.jp/> → Click on "Student Affairs" → Click on "Course Registration" from "Course/Grades" on the menu bar.

### ★Instructions for Course Registration:

1. Check the "Day/Period" of the course that you would like to register by Course Time Table, and Click the "Day/Period" and select the Time Table Code that you would like to register. Please be sure to click "Register Entry".
  - ※ If you want to register for subjects offered by other (under)graduate schools, register the courses from "Select other Dpt. Courses" menu on the NU Portal in the Registration period, and submit **"Registration for subjects in Other (Under)graduate Schools"** (see the next page) by April 15.
2. To register for an intensive course at the Graduate School of Environmental Studies, click the "Select Intensive Courses". The schedule for intensive courses will be posted on the online bulletin board at a later date.
3. Of the courses registered for the first time in the "Registration Revision (Addition and/or Cancellation)" Period, if the courses use NUCT, please request the professors in charge of the course to add them to NUCT individually.
4. If you want to register for subjects offered by other departments of GSES or other (under)graduate schools, please consult your academic advisor and the professors who are in charge of the subjects beforehand.
5. The "Course Registration" is different from the "Course Plan." Please note that the "Course Registration" must be submitted before every semester.
6. Change or withdrawal of course subjects are basically not allowed to be made after the registration period.



Environment  
General

Environment  
G30

## ◆ Registration Form for Courses at Other Graduate School

他研究科授業科目履修願

- ✓ If you wish to earn credits by taking subjects taught at other (under)graduate schools (including intensive courses), please submit a completed form for “Registration for Subjects in Other (Under)graduate Schools” (downloadable from GSES online bulletin board) with the consent of your academic advisor and the professors in charge of the subjects (No seal is required.) to your academic adviser via e-mail, and ask him/her to send to the Student Affairs Office of GSES (env@adm.nagoya-u.ac.jp) by **April, 15.**
- ✓ Please register the Subjects in Other (Under)graduate Schools in NU portal in the Registration period.

Sample

申請日

**他研究科授業科目履修願**

Registration Form for Courses at Other Graduate School

環境学研究科長 殿

2022  
2022

年度  
Year

春学期  
Spring Semester

専攻 Department

年 Year of Study

学生番号 Student ID No.

氏名 Name

下記のとおり、他研究科の授業を履修したいのでご許可くださるようお願いいたします。

	研究科 Name of Grad. School	授業科目名 Subject Title	担当教員の承認 Approval of Instructor (Faculty in Charge)	単位数 Credit Value	名大ポータルでの 履修登録 ※ Course Registration via NU Portal *	単位認定希望 Contents of Credits for Approval
1			<input type="checkbox"/> 承認済 (Approved) <input type="checkbox"/> 未承認 (Not yet)		<input type="checkbox"/> 登録済 (Completed)	<input type="checkbox"/> 課程修了単位 (Course Completion Credits) <input type="checkbox"/> 参考単位・教職単位 (随意科目) (Optional Credits)
2			<input type="checkbox"/> 承認済 (Approved) <input type="checkbox"/> 未承認 (Not yet)		<input type="checkbox"/> 登録済 (Completed)	<input type="checkbox"/> 課程修了単位 (Course Completion Credits) <input type="checkbox"/> 参考単位・教職単位 (随意科目) (Optional Credits)
3			<input type="checkbox"/> 承認済 (Approved) <input type="checkbox"/> 未承認 (Not yet)		<input type="checkbox"/> 登録済 (Completed)	<input type="checkbox"/> 課程修了単位 (Course Completion Credits) <input type="checkbox"/> 参考単位・教職単位 (随意科目) (Optional Credits)
4			<input type="checkbox"/> 承認済 (Approved) <input type="checkbox"/> 未承認 (Not yet)		<input type="checkbox"/> 登録済 (Completed)	<input type="checkbox"/> 課程修了単位 (Course Completion Credits) <input type="checkbox"/> 参考単位・教職単位 (随意科目) (Optional Credits)
5			<input type="checkbox"/> 承認済 (Approved) <input type="checkbox"/> 未承認 (Not yet)		<input type="checkbox"/> 登録済 (Completed)	<input type="checkbox"/> 課程修了単位 (Course Completion Credits) <input type="checkbox"/> 参考単位・教職単位 (随意科目) (Optional Credits)

※名大ポータルでの履修登録が未登録の場合は、履修登録期間に登録してください。  
 \*If you haven't registered the course via NU Portal yet, please register it in the registration period.

取得予定学位  
Degree desired  
修士  
Master of

指導教員承認印  
Approval Seal  
(Academic Advisor)



## Graduate School Common Courses

大学院共通科目



- ✓ Nagoya University Graduate School Common Course can be taken.
- ✓ Syllabus can be downloaded on the below website:  
<https://office.ilas.nagoya-u.ac.jp/nagoya-university-graduate-school-common-courses/>

**【Registration period on NU Portal】 April 2, 9:00 – April 3, 12:30 and April 4, 18:30 – April 5, 11:00.**

Depending on the courses, course adjustment and reason for application might be required. Please check the required courses on syllabus, and send an email to the instructors in charge about the reason why you want to take this course at the same time as online course registration.

- ✓ You need to submit “Registration Request Form” (GSE students)/ “Registration Form for Courses at Other Graduate School” (GSES students) to your GS Student Affairs Office or to your academic advisor via e-mail.
- ✓ The credits are counted as degree credits for GSE students. But for students of the GSES, the credits are not counted as course completion credits.

# *Civil & Environmental Engineering International Programs*

## 2 Types of International Programs

The Students of Dept. of Civil and Environmental Engineering of GSE and Spatial Planning Environmental Course of GSES can join either or both of the following two international programs. In addition to the master's/doctoral degree, a special certificate will be awarded to the participants who complete the program.



### ◆ NUGELP

Nagoya University Global Environmental Leaders Program



NUGELP aims to cultivate environmental experts who are able to identify and analyze cross border environmental problems from global and holistic perspectives, and propose practical measures to solve those issues.

**NOTE** All students of **JDS and PEACE must participate** in the NUGELP.



### ◆ Forefront Program

Forefront Studies Program on GLOCAL Civil Engineering Leaders for Co-development of Asia and Japan

**- Joint program with Gifu University from 2021 -**



Forefront program aims to To develop GLOCAL (=Global +Local) Civil Engineering Leaders who will lead the sustainable co-development of Japan and Asian countries by building high-quality infrastructure that is finely adapted to the regional characteristics of Asian countries in response to rapidly changing global environmental and disaster prevention issues.

#### **NOTE**

- The **scholarship students** by Japanese Government (Monbu-Kagaku-sho; Ministry of Education, Culture, Sports, Science and Technology) **must participate** in the Forefront Program.
- G30 students and private founded students are **recommended to participate** in the Forefront Program.

## Certificate Requirements

### ◆ Master's Course of NUGELP



Dept. of Civil and Environmental Engineering, GSE	Dept. of Environmental Engineering and Architecture, GSES
<b>1. Compulsory: 4 credits</b> <input type="checkbox"/> English Communication in Environmental Issues (2) 環境コミュニケーション <input type="checkbox"/> Global Research Internship 1 (2) グローバル研究インターンシップ 1 <b>2. Elective A: 2 credits</b> <input type="checkbox"/> Civil Engineering and Policies for Developing Countries I (2) 途上国開発特論 I <input type="checkbox"/> Civil Engineering and Policies for Developing Countries II (2) 途上国開発特論 II <b>3. Elective B: 4 credits</b> <input type="checkbox"/> Sustainable City Studies (2) サステナブル都市学 <input type="checkbox"/> Climate Change and Infrastructure (2) 気候変動と社会基盤 <input type="checkbox"/> Sustainability and Environmental Studies (2) 持続可能性と環境学 <input type="checkbox"/> Environmental Industry Systems (2) 環境産業システム論 <b>4. Master's thesis (in English)</b>	<b>1. Compulsory: 4 credits</b> <input type="checkbox"/> English Communication in Environmental Issues (2) 環境コミュニケーション <input type="checkbox"/> Global Research Internship 1 (2) グローバル研究インターンシップ <b>2. Elective A: 2 credits</b> <input type="checkbox"/> Civil Engineering and Policies for Developing Countries I (2) 途上国開発特論 I <input type="checkbox"/> Civil Engineering and Policies for Developing Countries II (2) 途上国開発特論 II <b>3. Elective B: 4 credits</b> <input type="checkbox"/> Sustainable City Studies (2) サステナブル都市学 <input type="checkbox"/> Climate Change and Infrastructure (2) 気候変動と社会基盤 <input type="checkbox"/> Sustainability and Environmental Studies (2) 持続可能性と環境学 <input type="checkbox"/> Environmental Industry Systems (2) 環境産業システム論 <b>4. Master's thesis (in English)</b>

☐ : Subjects provided by Dept. of Civil and Environmental Engineering, Graduate School of Engineering (GSE)

☐ : Subjects provided by Graduate School of Environmental Studies (GSES)

◆ **Doctoral Course of Forefront Program**  
(Joint curriculum with Gifu University)



Dept. of <b>Civil and Environmental Engineering, GSE</b>	Dept. of <b>Environmental Engineering and Architecture, GSES</b>
<p><b>1. Compulsory: 4 credits</b></p> <p>☐ GLOBAL Leaders Seminar (2) グローバル人材育成セミナー</p> <p>☐ Global Research Internship 2(2) グローバル研究インターンシップ 2</p> <p><b>2. Elective: 2 credits</b></p> <p>☐ Civil Engineering and Policies for Developing Countries I (2) 途上国開発特論 I</p> <p>☐ Civil Engineering and Policies for Developing Countries II (2) 途上国開発特論 II</p> <p>☐ Global Environmental Seminar I (2) 地球環境セミナー I</p> <p>☐ Global Environmental Seminar II (2) 地球環境セミナー II</p> <p><b>3. Doctoral thesis (in English)</b></p>	<p><b>1. Compulsory: 4 credits</b></p> <p>☐ GLOBAL Leaders Seminar (2) グローバル人材育成セミナー</p> <p>☐ Global Research Internship (2) グローバル研究インターンシップ</p> <p><b>2. Elective: 2 credits</b></p> <p>☐ Civil Engineering and Policies for Developing Countries I (2) 途上国開発特論 I</p> <p>☐ Civil Engineering and Policies for Developing Countries II (2) 途上国開発特論 II</p> <p>☐ Global Environmental Seminar I (2) 地球環境セミナー I</p> <p>☐ Global Environmental Seminar II (2) 地球環境セミナー II</p> <p><b>3. Doctoral thesis (in English)</b></p>

☐ : Subjects provided by Dept. of Civil and Environmental Engineering, Graduate School of Engineering (GSE)

☐ : Subjects provided by Graduate School of Environmental Studies (GSES)

**NOTE** “Civil Engineering and Policies for Developing Countries I or/and II” is not required if you had already acquired as degree credits of Master’s course.

**NOTE** “Global Research Internship 2” or “Global Research Internship” is not required if you had already acquired “Global Research Internship 1” or “Global Research Internship” as degree credits of Master’s course (this rule refers only to Forefront Program students of Doctoral Course).

## ◆ Doctoral Course of NUGELP



Dept. of Civil and Environmental Engineering, GSE	Dept. of Environmental Engineering and Architecture, GSES
<b>1. Compulsory: 16 credits</b> <div> <div>C</div> Civil Engineering and Policies for Developing Countries I (2)  途上国開発特論 I </div> <div> <div>C</div> Civil Engineering and Policies for Developing Countries II (2)  途上国開発特論 II </div> <div> <div>C</div> Seminars by Academic Advisor A, B, C, D (8)  指導教員によるセミナー A, B, C, D </div> <div> <div>E</div> Classes and Research Instruction in Basic Environmental Studies 1 (2)  基礎環境学講究 1 </div> <div> <div>E</div> On-site Research Training in Clinical Environmental Studies 1 (2)  臨床環境学研修 1 </div>	<b>1. Compulsory: 16 credits</b> <div> <div>E</div> Civil Engineering and Policies for Developing Countries I (2)  途上国開発特論 I </div> <div> <div>E</div> Civil Engineering and Policies for Developing Countries II (2)  途上国開発特論 II </div> <div> <div>E</div> Seminars by Academic Advisor A, B, C, D (8)  指導教員によるセミナー A, B, C, D </div> <div> <div>E</div> Classes and Research Instruction in Basic Environmental Studies 1 (2)  基礎環境学講究 1 </div> <div> <div>E</div> On-site Research Training in Clinical Environmental Studies 1 (2)  臨床環境学研修 1 </div>
<b>2. Doctoral thesis (in English)</b>	<b>2. Doctoral thesis (in English)</b>

C

: Subjects provided by Dept. of Civil and Environmental Engineering, Graduate School of Engineering (GSE)

E

: Subjects provided by Graduate School of Environmental Studies (GSES)

**NOTE** “Civil Engineering and Policies for Developing Countries I or/and II” is not required if you had already acquired as degree credits of Master’s course.

## Global Research Internship (GRI)



### ■ Relating subjects

Subject Title	NUGELP		Forefront Program	
	Master's Course		Doctoral Course	
	Environment	Civil	Environment	Civil
<input type="checkbox"/> Global Research Internship	○		○	
<input type="checkbox"/> Global Research Internship 1		○		
<input type="checkbox"/> Global Research Internship 2				○

○:Compulsory for completing the program.

### ■ Objectives

GRI aims at providing students research-based internship opportunities at universities, research institutions, companies, governmental and non-governmental organizations in Japan and overseas to acquire the ability to conduct practical and applied research. Internship should be conducted based on close communication with academic advisor(s). Students are expected to acquire practical research know-how through On-site Research Training (ORT). Details of the Internship such as period and terms of implementation should be decided through consultation with academic advisor(s) and experts at host institutions.

### ■ Evaluation

Performance is graded by Pass or Fail (2 credits).

Grading shall be based on evaluation reports by academic advisor(s) and experts at host institutions, and student's reports (Initial report, Detailed report and Final report).

### ■ Schedule

Step 1: Submission of <b>Initial Proposal</b>	<b>Within six weeks</b> after GRI orientation*
Step 2: Submission of <b>Detailed Proposal</b>	<b>By a month</b> prior to the departure*
Step 3: <b>Internship</b>	<b>more than 2 weeks</b> (more than 10 days except Saturday, Sunday and holidays)
Step 4: Submission of <b>Final Report</b> <b>Summary Report</b>	<b>Within a month</b> after completion of the internship*

## ■ Financial Assistance

A part of the expenses for your GRI activity is financially supported by your laboratory. Each student must consult with your supervisor about the financial assistance. Basically, the following 2 items are financially supported by your laboratory:

1. Return flight/train tickets
2. Daily allowance: - Japan: 500 JPY/day      - Overseas: 1,000 JPY/day

## ■ Document Formats

[Form 1] Initial Proposal

[Form 2] Detailed Proposal

[Form 3] Internship Pledge (submitted to the host institution)

[Form 4] Internship Pledge (based on MOU [Form M], submitted to the International Programs Office)

[Form 5] Internship Pledge (submitted to the International Programs Office)

[Form 6] Internship Pledge (for overseas internships, submitted to the International Programs Office)

- Forms 1-2 are available on the CEEIPO website.
  - <http://www.civil.nagoya-u.ac.jp/ceeipo/current-students.html>
- Form 3-6 is to be prepared through the International Programs Office when it is necessary. If it is required, please contact the International Programs Office (Room 223, Environmental Studies Hall).

## ■ Final Report

Final report should be submitted as a clean copy, typed or printed from a word processing program upon white paper of A4 size, **within a month after completion of the internship.**

The following contents should be included:

1. Cover
2. Table of Contents
3. Background and Challenges  
(The reason why you selected the institution)
4. Objectives of the Internship
5. Basic Information of your GRI Host institution,
6. GRI Period
7. Achievement and Results of the Internship  
(what you did during the GRI, what you could achieve through the GRI)
8. Conclusion  
(Your opinion/comments/impressions/suggestions after GRI)
9. Reference
10. Signature of Supervisor

## ■ Checklist for GRI

No.		Date of task completion	✓
<b>Prior to commencing your Internship</b>			
1	Make sure to obtain permission from your academic advisor because the expenses of your internship is partly supported by your laboratory	Required	<input type="checkbox"/>
2	Submission of Initial Proposal [Form 1]. Ensure that the period of your GRI is more than 10 days except Saturday, Sunday, and holidays	Required within six weeks after GRI orientation	<input type="checkbox"/>
3	Submission of Detailed Proposal [Form 2]	Required by a month prior to your departure	<input type="checkbox"/>
4	Submission of CV and Internship Pledge to your host organization /institution	If necessary	<input type="checkbox"/>
5	Submission of Internship Pledge to the International Programs Office	If necessary	<input type="checkbox"/>
<b>Students participating in internships at an overseas host organization/institution must also complete the following tasks.</b>			
6	Obtain a visa, purchase flight tickets, and take any required vaccinations depending on the destination	If necessary	<input type="checkbox"/>
7	Take out insurances: - 学生教育研究災害傷害保険(学研災) (Personal Accident Insurance for Students Pursuing Education and Research (Gakkensai)) - 学研災付帯賠償責任保険 (Liability Insurance coupled with Gakkensai)	Prior to your departure	<input type="checkbox"/>
8	Purchase overseas insurance (liability insurance must be included)	Prior to your departure	<input type="checkbox"/>
9	Submission of a Notification of Overseas Travel Form (海外渡航届) to the office in charge: Online: <a href="https://tokou.iee.nagoya-u.ac.jp/home">https://tokou.iee.nagoya-u.ac.jp/home</a> GSES: Academic and Student Section (大学院掛) GSOE: Civil & Environmental Engineering Office (土木工学専攻事務室)	Required by a week prior to your departure	<input type="checkbox"/>
10	Submission of Internship Pledge to the International Programs Office	If necessary	<input type="checkbox"/>
<b>After completion of your internship</b>			
11	Submission of Final Report to your academic advisor and the International Programs Office (both hard and soft copy)	Required within a month after completion of the internship	<input type="checkbox"/>
12	Submission of Summary Report	Required	<input type="checkbox"/>





**Nagoya University**  
**Civil & Environmental Engineering**  
**International Programs Office**

Room 105, Engineering Building 8, School of Engineering, Graduate school of Engineering

Furo-cho, Chikusa-ku, Nagoya, 464-8603, Japan

Tel: +81-52-789-6050, Fax: +81-52-789-3736

E-mail: [fso@civil.nagoya-u.ac.jp](mailto:fso@civil.nagoya-u.ac.jp)

Room 223, Environmental Studies Hall, Graduate school of Environment Studies

Furo-cho, Chikusa-ku, Nagoya, 464-8601, Japan

E-mail: [ceeipo@urban.env.nagoya-u.ac.jp](mailto:ceeipo@urban.env.nagoya-u.ac.jp)

Tel: +81-52-789-5507, Fax: +81-52-788-6205

CEEIPO Website

<http://www.civil.nagoya-u.ac.jp/ceeipo/Index.htm>

NUGELP Website

<http://www.civil.nagoya-u.ac.jp/nugelp/index.html>