

Kyoto University

**Human Security Engineering Education
Program**

Doctoral Course

Integrated Engineering Course, Human Security Engineering Field
(Human Security Engineering Education Program)
Graduate School of Engineering

Human Security Engineering Advanced Course
Graduate School of Global Environmental Studies



2017

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(1) What is the Human Security Engineering Education Program?

Educational objective:

Motivating creative, international and independent researchers and engineers with training in four related academic fields.

To achieve the educational objectives of the Human Security Engineering Education (HSE) Program, we provide the HSE courses of the program, the basic subjects in the four academic fields, and the overseas internship through the English language. The Graduate School of Engineering (three departments related to the undergraduate school of Global Engineering), the Hall of Global Environmental Research, the Graduate School of Global Environmental Studies and the Disaster Prevention Research Institute are participating in this program and responsible for training and research.

(2) Educational Policy

Our policy is intended for doctoral students to provide interdisciplinary and solid education in the core fields and four related fields (urban governance, urban infrastructure management, health risk management, and disaster risk management). The study of these topics will equip researchers and engineers with the ability to apply their knowledge in an integrated manner toward ensuring urban human security, as well as the ability to promote these technologies. Specifically, we aim to promote researchers and engineers who possess sophisticated creativity (in addition to having a wide range of knowledge, the ability to go beyond the boundaries of the existing specialized fields), internationality (the ability to present and debate research in English, perform education and research activity in foreign countries, ability to build international human networks), and independence (the ability to plan research, leadership in education and research, ability to secure research funds, and problem-solving ability in the field). To achieve the educational objectives above, we designate “Human Security Engineering” as the compulsory subject for all students and include English instruction in our courses. Additionally, to enable students at the overseas campuses to participate in the program, we will also provide intensive lectures at the sites through a remote lecturing system and e-Learning system.

(3) HSE Program Students

The following students can be admitted to HSE program.

- a) The doctoral student who entered the Graduate School of Engineering (related to the undergraduate school of Global Engineering) and is assigned to the Integrated Engineering Course, Human Security Engineering Field (Doctoral Course: 3rd Year).
- b) The doctoral student of the Graduate School of Global Environmental Studies who selected the “Human Security Engineering Advanced Course.”

(4) HSE Program: Subjects Available for Study

Code	Subject	Teasher(s) in Charge	Hrs/Week		Credits	Course Specification
			1st Semester	2nd Semester		
10X301	Human Security Engineering	Yondea, Ohtsu, Tanaka(Hiro), Tatano, Kobayashi, Asari	2		2	Compulsory Core subject
10X305	Lectures on Urban Governance 1 (*)	Assorted Instructors	2		2	Major/minor subject
10X307	Lectures on Urban Governance 2 (*)	Assorted Instructors		2	2	Major/minor subject
10X311	Urban Infrastructure Management	Ohtsu and Assorted Instructors	2		2	Core subject Major/minor subject
10X315	Lectures on Urban Infrastructure Management 1 (*)	Assorted Instructors	2		2	Major/minor subject
10X317	Lectures on Urban Infrastructure Management 2 (*)	Assorted Instructors		2	2	Major/minor subject
10X321	Lectures on Environmental Risk Management Leader	Fujii, Tanaka(Hiro), Shimizu	2		2	Core subject
10X323	Lectures on Health Risk Management 1 (*)	Assorted Instructors	2		2	Major/minor subject
10X325	Lectures on Health Risk Management 2 (*)	Assorted Instructors		2	2	Major/minor subject
10F456	New Environmental Engineering I	Shimizu, Tanaka(Hiro), Fujii	2		2	Major/minor subject
10F458	New Environmental Engineering II	Takaoka, Kurata, Fujii		2	2	Major/minor subject
733103	Management of Global Resources and Ecosystems (**)	Funakawa, Shibata, Yamashita	2		2	(*)Major/minor subject
733104	Environmental Ethics and Environmental Education (**)	Asari, Singer	2		2	(*)Major/minor subject
10X333	Disaster Risk Management	Tatano, Yokomatsu	2		2	Core subject Major/minor subject
10X335	Lectures on Disaster Risk Management 1 (*)	Assorted Instructors	2		2	Major/minor subject
10X337	Lectures on Disaster Risk Management 2 (*)	Assorted Instructors		2	2	Major/minor subject
10X339	Internship for Human Security Engineering (Short)				2	ORT subject
10X341	Advanced Capstone Project (Long)				8	ORT subject
	Rsearch Paper (Doctoral)					Compulsory

Note:

- 1) All lectures are conducted in English. The outline of each subject is described in p.7-11
- 2) Prepare the course plan of the subjects by the following procedure and submit the plan to your supervisor to obtain their approval at school entry. Although the course plan can be modified when proceeding to the next grade, the approvals to the supervisor(s) must be obtained. The supervisor cannot modify the additional conditions.
- 3) Graduate-level subjects not included in this table may be considered as corresponding and equivalent to minor subjects under the instruction of your supervisor(s) for up to 4 credits.

- 4) (*)Subjects are custom-made. If you wish to take (*)subjects, you must contact your supervisor to find an instructor for this subject and make plans for study worth 2 credit with the instructor. Then you must submit the study plan (HSE-050) to HSE Center along with HSE Portfolio (see Page 13).
- 5) (**)subjects are offered by the Graduate School of Global Environmental Studies(GSGES). If you wish to take (**)subjects, you must submit an “Auditing Request Form”(他研究科科目聴講願) to the C Cluster Office and inform the GSGES Office
(E-mail: 160tikyukankyomu@mail2.adm.kyoto-u.ac.jp).

(5) Program Accreditation

Students who proceed to the Integrated Engineering Course, Human Security Engineering Field, will complete the doctoral course by fulfilling the completion requirements of this field, rather than those of the department to which he/she belongs. Upon completion of the field, the student will be certified as a “Human Security Engineering Education Program Graduate” and will be conferred the program certificate aside from the doctoral degree certificate.

Subject	Number of Credits Required for Completion
Core subject (HSE)	2 or more
Core subject	2 or more
ORT subject	2 or more
Major subject	0 or more
Minor subject	0 or more
Other subject	To be taken obtaining the approval of the supervisor as needed
Total	10 or more

1. Students who have achieved 2 credits in the compulsory core subject “Human Security Engineering.”
2. Students who have achieved at least 1 subject (2 credits) from the core subjects (Urban Infrastructure Management, Lecture on Environmental Risk Management Leader, Disaster Risk Management).
3. Students who have achieved at least 2 credits of the ORT subjects.
4. Students who have achieved at least 10 credits from the HSE Program subject table above. However, the subjects of the graduate school that are not included in the HSE Program subjects table above can be certified as the required credits for the completion under the supervisor(s) only if the total number of the credits is equal to or less than 4.
5. Students who have completed the doctoral research in accordance with the spirit of the HSE Program.

Example

Course Specification	Code	Subject	Credits	1st Semester	2nd Semester
Compulsory Core subject	10X301	Human Security Engineering	2	○	
Core subject	10X321	Lectures on Environmental Risk Management Leader	2	○	
Major/minor subject	10X323	Lectures on Environmental Risk Management 1	2	○	
ORT subject	10X339	Internship for Human Security Engineering (Short)	2	○	○
	or				
	10X441	Advanced Capstone Project (Long)	8	○	○
Major/minor subject	10X327	New Environmental Engineering II	2		○

(6) Timetable of FY2017 HSE Program

First Semester (10 Apr. 2017 to 21 Jul. 2017)

	Mon	Tue	Wed	Thu	Fri
1 8:45 - 10:15					
2 10:30 - 12:00					Management of Global Resources and Ecosystems (Funakawa/Shibata/Yamashita) <i>Main Lecture Room, Research Bldg. No.5, Yoshida Campus</i>
3 13:00 - 14:30	Urban Infrastructure Management (Ohtsu) <i>Lecture Studio 173, Katsura Campus</i>				
4 14:45 - 16:15			Disaster Risk Management (Tatano/Yokomatsu) <i>Main Lecture Room, Research Bldg. No.5, Yoshida Campus and Telecommunication Lecture Room 171, Katsura Campus</i>		
5 16:30 - 18:00	New Environmental Engineering I (Shimizu/Tanaka(Hiro)/Fujii) <i>Main Lecture Room, Research Bldg. No.5, Yoshida Campus and Telecommunication Lecture Room 171, Katsura Campus</i>	Environmental Ethics and Environmental Education (Asari/Singer) <i>Main Lecture Room, Research Bldg. No.5, Yoshida Campus</i>	Human Security Engineering (Yoneda/Ohtsu/Tanaka/Tatano/Kobayashi/Asari) <i>Lecture Room 171, Katsura Campus</i>	Environmental Risk Management Leader (Fujii/Tanaka/Shimizu) <i>Main Lecture Room, Research Bldg. No.5, Yoshida Campus and Telecommunication Lecture Room 171, Katsura Campus</i>	

★ As for Lectures on Urban Governance 1, Lectures on Urban Infrastructure Management 1, Lectures on Health Risk Management 1, Lectures on Disaster Risk Management 1, each schedule will not be fixed. Ask the supervisor for the details and register it. (see Note 4), page 3)

Second Semester (2 Oct. 2017 to 23 Jan. 2018)

	Mon	Tue	Wed	Thu	Fri
1 8:45 - 10:15					
2 10:30 - 12:00					
3 13:00 - 14:30					
4 14:45 - 16:15					
5 16:30 - 18:00	New Environmental Engineering II (Takaoka/ Kurata/Fujii) <i>Main Lecture Room, Research Bldg. No.5, Yoshida Campus and Telecommunication Lecture Room 171, Katsura Campus</i>				

★ As for Lectures on Urban Governance 2, Lectures on Urban Infrastructure Management 2, Lectures on Health Risk Management 2, Lectures on Disaster Risk Management 2, each schedule will not be fixed. Ask the supervisor for the details and register it. (see Note 4), page 3)

(7) Course Descriptions for Human Security Engineering Education Program

Human Security Engineering [Compulsory Core subject]

YONEDA Minoru (GSE), OHTSU Hiroyasu (GSE), TANAKA Hiroaki (GSE), KOBAYASHI Kiyoshi (GSE), TATANO Hirokazu (DPRI), ASARI Misuzu (GSGES).

First Semester: Wednesday, 16:30–18:00

This course will provide a comprehensive overview of human security engineering, a system of technologies for designing and managing cities that enable inhabitants to live under better public health conditions, and also to live free from potential threats of large-scale disasters and environmental destruction. The Millennium Development Goals will be evaluated from the viewpoints of four existing fields: urban governance, urban infrastructure management, health risk management, and disaster risk management. Furthermore, we will provide lectures that explore the relationships between the four existing fields.

Lectures on Urban Governance 1

Assorted Instructors

Custom-made Lecture

This class will cover the hot topics on urban governance within human security engineering. Instructors will present current literature and expect students to develop arguments.

Student must make plans for study worth 2 credit with an instructor and submit the study plan (HSE-050) to HSE Center.

Lectures on Urban Governance 2

Assorted Instructors

Custom-made Lecture

In this class, research topics related to urban governance within human security engineering will be assigned to students to enable them to solve human security problems. The students are required to review the latest or important fundamental papers, including related areas, and debate ideas with their teachers.

Student must make plans for study worth 2 credit with an instructor and submit the study plan (HSE-050) to HSE Center.

Urban Infrastructure Management [Core subject]

OHTSU Hiroyasu (GSE)

First Semester: Monday, 13:00–14:30

This course aims to provide interdisciplinary knowledge on how urban infrastructure is managed, not only from an economic perspective but also in accordance with human security engineering. The

lectures will consist of the following topics: (1) Urban Infrastructure Asset Management, (2) Urban Environment Accounting System, (3) Urban Energy Supply Management, (4) Urban Food/Water Supply Management, and (5) Urban Transport/Logistics Management.

Lectures on Urban Infrastructure Management 1

Assorted Instructors

Custom-made Lecture

This class aims to deepen the understanding on urban infrastructure management, especially related to human security engineering. The class will present and discuss hot topics and related literatures on urban infrastructure management.

Student must make plans for study worth 2 credit with an instructor and submit the study plan (HSE-050) to HSE Center.

Lectures on Urban Infrastructure Management 2

Assorted Instructors

Custom-made Lecture

In this class, the Assorted Instructors will provide lectures on the current situation and future prospect of the challenges of urban infrastructure management related to urban human security engineering. The aim of this class is to develop advanced and practical research capability of the students. To achieve this, they will be assigned with research subjects and will present and discuss their findings.

Student must make plans for study worth 2 credit with an instructor and submit the study plan (HSE-050) to HSE Center.

Lecture on Environmental Risk Management Leader [Core subject]

FUJII Shigeo (GSGES), SHIMIZU Yoshihisa (GSE), TANAKA Hiroaki (GSE)

First Semester: Thursday, 16:30–18:00

In this class, we will give lectures on the theories of risk analysis, risk identification, risk assessment, risk evaluation, and risk reduction for human health and ecology. The main purpose of this lecture is to provide the students with the basic knowledge required of environmental leaders who can solve environmental issues practically as they occur in developing countries. We will review several international environmental projects as case studies.

Lectures on Health Risk Management 1

Assorted Instructors

Custom-made Lecture

This class will provide an overview of health risk management, especially as they relate to human

security engineering. The class will present and discuss the hot topics and related literatures on health risk management.

Student must make plans for study worth 2 credit with an instructor and submit the study plan (HSE-050) to HSE Center.

Lectures on Health Risk Management 2

Assorted Instructors

Custom-made Lecture

This class will provide lectures on the current situation and future challenges of human health risk management from the viewpoint of urban human security engineering. The aim of this class is to develop the student's research capability. Students will be assigned academic and practical research subjects, and will then present and discuss their findings.

Student must make plans for study worth 2 credit with an instructor and submit the study plan (HSE-050) to HSE Center.

New Environmental Engineering I

SHIMIZU Yoshihisa (GSE), TANAKA Hiroaki (GSE), FUJII Shigeo (GSGES), ,

Monday, 16:30–18:00

This course provides various kinds of engineering issues related to the water environment in English, which cover fundamental knowledge, the latest technologies and regional application examples. These lectures, English presentations by students, and discussions enhance English capability and internationality of students.

The course is conducted in simultaneous distance-learning from Kyoto University, or from remote lecture stations in University of Malaya, and Tsinghua University of China. For the distance-learning, a hybrid system is used, which consists of prerecorded lecture VIDEO, VCS (Video conference system) and SS (slide sharing system).

New Environmental Engineering II

TAKAOKA Masaki (GSGES), KURATA Gakuji (GSE), FUJII Shigeo (GSGES)

Monday, 16:30–18:00

This course provides various kinds of engineering issues related to atmospheric environment and solid wastes management in English, which cover fundamental knowledge, the latest technologies and regional application examples. These lectures, English presentations by students, and discussions enhance English capability and internationality of students. The course is conducted in simultaneous distance-learning from Kyoto University, or from remote lecture stations in University of Malaya, and Tsinghua University. For the distance-learning, a hybrid system is used, which consists of prerecorded

lecture VIDEO, VCS (Video conference system) and SS (slide sharing system). The students are requested to give a short presentation in English in the end of the lecture course. This course may improve students' English skill and international senses through these lectures, presentations, and discussions.

Management of Global Resources and Ecosystems

FUNAKAWA Shinya (GSGES), SHIBATA Shozo (GSGES), YAMASHITA Yo (GSGES)

First Semester: Friday, 10:30–12:00

Natural resources can be recycled sustainably by maintaining the environment. Ecosystems can be kept healthy so that organisms can reproduce effectively. This class outlines the characteristics of material circulation in various ecosystems and the link mechanism between ecosystems. We will also consider methods for using natural resources in harmony with ecosystems, after reviewing examples of deteriorated ecosystems and their rehabilitation throughout the world.

Environmental Ethics and Environmental Education

Misuzu ASARI (GSGES), Jane SINGER (GSGES), Tracey GANNON (GSGES)

First Semester: Tuesday, 16:30–18:00

Ethical approaches and informed decision making are essential for solving environmental problems, especially to facilitate consensus building among conflicting stakeholders. This course covers prominent schools of thought in the field of environmental ethics, applied ethics in environmental stewardship, and basic principles of environmental education.

Disaster Risk Management [Core subject]

TATANO Hirokazu (DPRI), YOKOMATSU Muneta (DPRI)

First Semester: Wednesday, 14:45–16:15

Natural disasters have low frequencies but high impacts. It is very important to make an integrated risk management plan that consists of various countermeasures such as prevention, mitigation, transfer, and preparedness. This class will present economic approaches to natural disaster risk management and designing appropriate countermeasures.

Lectures on Disaster Risk Management 1

Assorted Instructors

Custom-made Lecture

This class aims provide an overview of disaster risk management, with an emphasis on human security problems. The class will present and discuss hot topics and related literatures on disaster risk management.

Student must make plans for study worth 2 credit with an instructor and submit the study plan (HSE-050) to HSE Center.

Lectures on Disaster Risk Management 2

Assorted Instructors

Custom-made Lecture

This class will provide lectures on the current situation and future challenges of disaster risk management from the viewpoint of urban human security engineering. The aim of this class is to develop advanced and practical research capability of the students. To achieve this, they will be assigned with research subjects and will present and discuss their findings.

Student must make plans for study worth 2 credit with an instructor and submit the study plan (HSE-050) to HSE Center.

Internship for Human Security Engineering

Contact your supervisor(s) to inquire

The internship aims to develop practical capabilities to secure urban human security, in addition to acquiring expert knowledge and the ability to develop new research fields by carrying out research activity related to human security engineering and presenting research results at international conferences. Specific examples include participating in internships domestically or abroad at companies or research institutes which conduct the operation of international projects, conducting field surveys, and attending academic conferences.

Advanced Capstone Project

Contact your supervisor(s) to inquire

This class aims to develop the abilities of international collaboration, field investigation, and on-site planning/problem solving through long-term investigation/research activities related to human security engineering with thorough hands-on policy in foreign countries. Specific examples include field research at overseas centers and participation in international projects overseas. As a rule, participants will stay in the field for 2 months or more.

(8) Example Course Plans

1) A student of the field of Urban Infrastructure Management

Course Specification	Code	Subject	Credits	1st Semester	2nd Semester
Compulsory Core subject	10X301	Human Security Engineering	2	○	
Core subject Major/minor subject	10X311	Urban Infrastructure Management	2	○	
ORT subject	10X339	Internship for Human Security Engineering (Short)	2	○	○
	or				
	10X341	Advanced Capstone Project (Long)	8	○	○
Core subject Major/minor subject	10X333	Disaster Risk Management	2	○	
Major/minor subject	10X317	Lectures on Urban Infrastructure Management 2	2		○

2) A student of the field of Health Risk Management

Course Specification	Code	Subject	Credits	1st Semester	2nd Semester
Compulsory Core subject	10X301	Human Security Engineering	2	○	
Core subject	10X321	Lectures on Environmental Risk Management Leader	2	○	
Major/minor subject	10X323	Lectures on Environmental Risk Management 1	2	○	
ORT subject	10X339	Internship for Human Security Engineering (Short)	2	○	○
	or				
	10X341	Advanced Capstone Project (Long)	8	○	○
Major/minor subject	10X327	Environmental Engineering for Asia	2		○

(9) ORT subjects

“Internship for Human Security Engineering” (short-term internship: 2 credits) and “Advanced Capstone Projects” (long-term internship: 8 credits) are available for ORT subjects in HSE Program. To conduct each ORT subject, you would contact your supervisor(s) to inquire and make plans for internships with your supervisor’s advice and suggestion.

1) Internship for Human Security Engineering

Internship for Human Security Engineering normally requires 2 weeks (10 days) of on-site training or on-the-research training. Examples of these internship activities as follows:

- (a) Presentation at international conference followed by information collection relevant to your doctoral research at laboratories of foreign universities and authorities.
- (b) Normal internship activities at private companies to study the state of the cutting-edge technologies or practical business.

2) Advanced Capstone Projects

Advanced Capstone Projects require more than 2 months on-site or research training.

Examples as follows:

- (a) Fieldwork at overseas base for your doctoral research.
- (b) Working as a visiting researcher at agencies/organizations related to Human Security Engineering.

NOTICE OF INTERNSHIP

- 1) Contact your supervisor and make plans for internship with your supervisor’s advice.
- 2) You can combine several internships into one. The total length of internships should sum up to 2 weeks or 2 months.
- 3) Submit the Notice (HSE-004, or HSE-005) and the Internship Pledge (HSE-028) to HSE Center (kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp).

You could access our website (<http://hse.gcoe.kyoto-u.ac.jp>) and download these template files.

- 4) Submit the report on internship (Binding form: HSE-013/014 and Report form: HSE-015) to your supervisor and HSE Center.

You could access our website (<http://hse.gcoe.kyoto-u.ac.jp>) and download these template files.

- 5) As ORT subjects are all-year ones, you must register them at the beginning of the first semester and can get the credit at annual end-of-classes.

(10) Portfolio and Registration card

Kyoto University Human Security Engineering Education Program Portfolio (HSE-003) is submitted to your supervisor and used for the discussion and confirmation of your future course plan just with your supervisor.

Its only first page (with your supervisor's signature)(PDF file) is submitted to HSE Center.

(kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp)

Registration card (HSE-030, 031) is submitted to C Cluster Office and its copy or PDF to be submitted to HSE Center (kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp).

Attention: Students who entered Kyoto Univ. in October must fill out ORT Subject on Registration Card for First Semester next spring.

(11) Contact

Education Coordinator of Human Security Engineering Education Program (HSE)

Associate Professor Yoko Shimada

C1-3-464, Katsura Campus C Cluster

Secretary of Human Security Engineering Education Program (HSE)

Chikako Takuma

C1-3-182, Katsura Campus C Cluster

E-mail: kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp

Website: <http://hse.gcoe.kyoto-u.ac.jp>

Kyoto University Human Security Engineering Education Program Portfolio
(人間安全保障工学分野ポートフォリオ)

Date of Entrance 入学年月	Affiliation 所属専攻	Student ID 学生番号	Nationality 国籍
Entered in . . .20			

Name 氏名	Laboratory 研究室名	Supervisor 主指導教員
	TEL (Ext.):	

Present address 現住所	TEL (Fixed)	
	TEL (Cell)	
	E-mail	

(1) Course Plan for the HSE Program (履修計画)

科目区分名	Subject Code 科目コード	Subject Name 科目名	Credits 単位数	Academic year 履修学年	Semester	
					1st	2nd
Compulsory Core Subject 必修, コア		Human Security Engineering (人間安全保障工学概論)	2	2018	○	
Core Subject コア						
ORT						

Supervisor's signature _____

(主指導教員印またはサイン)

(2) Reason for application for the HSE Program

(3) Doctoral research plan

Title _____

Research summary/plan

(4) Position of the doctoral research theme filled in this application in Human Security Engineering

(5) HSE Program and Research Condition/Outcome

Fill out the subjects, which you have taken, and your doctoral research result/outcome (published papers etc.) in each semester.

2017 Second Semester

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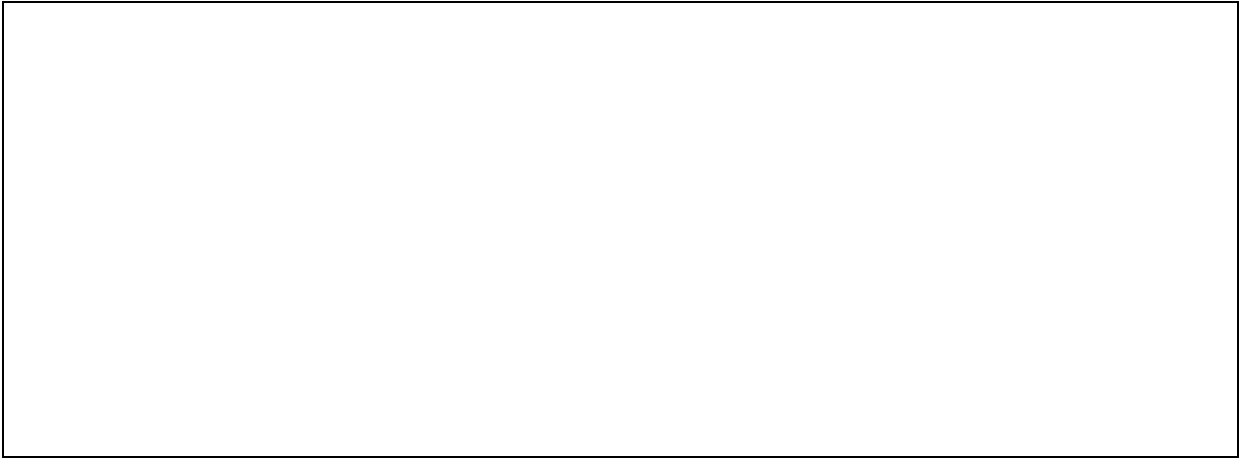
2018 First Semester

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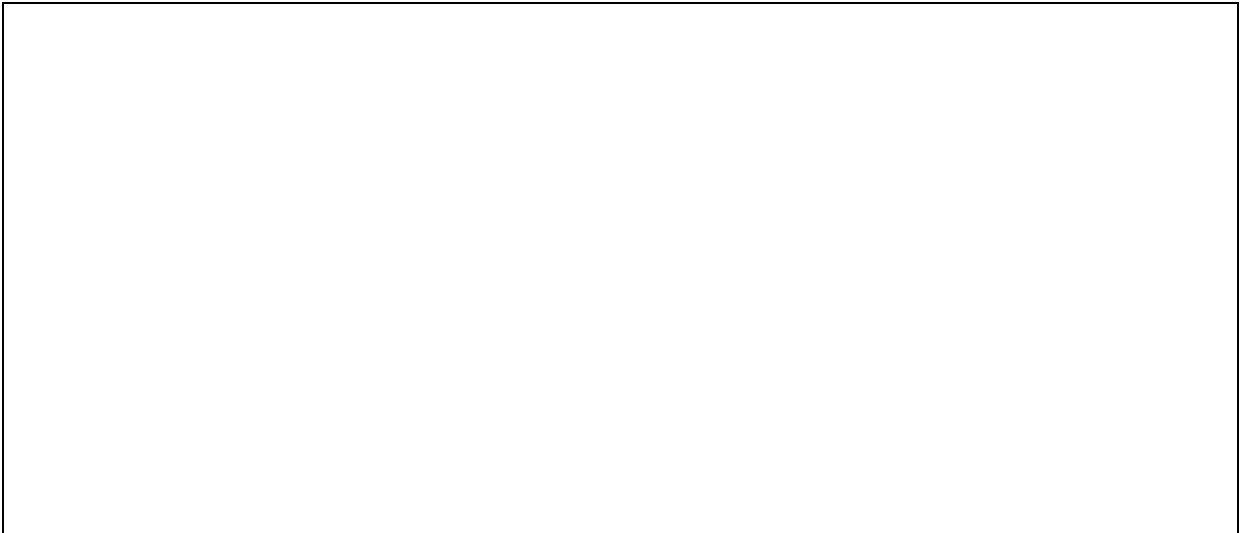
2018 Second Semester

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2019 First Semester

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2019 Second Semester

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2020 First Semester

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誓約書

Internship Pledge

人間安全保障工学分野 分野長 殿

人間安全保障工学分野の講義の一環としてインターンシップあるいは研究調査のため海外渡航する場合は、出国から帰国までの期間中における事故・疾病等については、私自らの責任として対処することを誓約します。

平成 年 月 日

(渡航者)

所 属 専 攻 _____.

住 所 _____.

氏 名 _____ (印).

印またはサイン

Study Plan for Custom-made Lecture

Affiliation	Laboratory	Student ID	Name	Supervisor

Subject Please check the subject which you want to register

check	Subject	check	Subject
	Lectures on Urban Governance 1		Lectures on Health Risk Management 1
	Lectures on Urban Governance 2		Lectures on Health Risk Management 2
	Lectures on Urban Infrastructure Management 1		Lectures on Disaster Risk Management 1
	Lectures on Urban Infrastructure Management 2		Lectures on Disaster Risk Management 2

Instructor:
Content of the study worth 2 credit:

Supervisor's signature _____