Guidance for new students

**Welcome
to
Kyoto University Human Security
Engineering(HSE) Education Program!**

Today' Plan

1. HSE Director's address
2. Staff introduction
3. Self-introduction
4. Guidance for HSE course

HSE Staff

- **Director of HSE Program**

  Prof. Taku FUJIWARA

- **Vice director of HSE program**

  Prof. Minoru YONEDA

- **Educational Coordinator of HSE Program**

  Assoc. Prof. Yoko SHIMADA

- **Secretary of HSE Program,**
  Emi MORI

Self-Introduction

Video on and mute

About 1 min.

- Name
- Home country
- Your supervisor
- How we can call you

etc.

Guidance for HSE course

Human Security Crisis in Megacities

> - **Explosion of urban population**
> - **Great threats to the security of megacities**
>   - **Increase of environmental pollution**
>   - **Increase of disaster risks**
>   - **Increase of economic inequality**
> - **Interrelation of these threats**
> - **Lack of a systematic framework and human resource development system to handle these problems**

Necessity of an engineering to combine engineering with urban administrative management and to create comprehensive systems in order to deal with these human security problems.
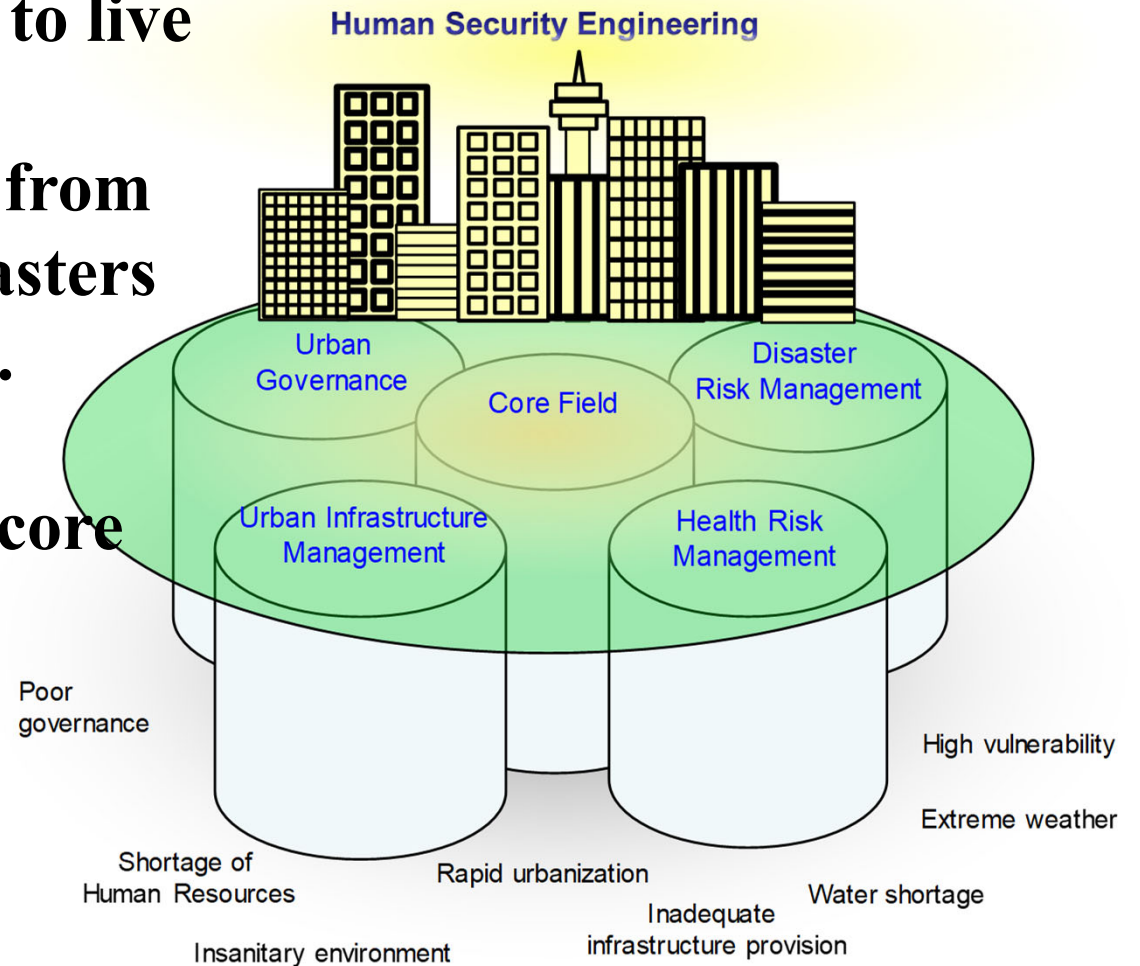
Human Security Engineering

What is the "Human Security Engineering "?

➢ **A system of technologies for urban management for inhabitants to live in better hygienic and health environment and to live free from the threats of large-scale disasters and environmental pollution.**

➢ **Based on the following four core academic fields:**
  - **Urban governance**
  - **Urban infrastructure management**
  - **Health risk management**
  - **Disaster risk management**

Human Security Engineering

Urban Governance

Disaster Risk Management

Core Field

Urban Infrastructure Management

Health Risk Management

Poor governance

High vulnerability

Extreme weather

Shortage of Human Resources

Rapid urbanization

Water shortage

Inadequate infrastructure provision

Insanitary environment

Mission of HSE Education program

Fostering researchers and engineers with creativity, internationality and independence who will have ability to integrate and apply the knowledge toward ensuring urban human security.

Creativity: the ability to go beyond the boundaries of the existing specialized fields.

Internationality: the ability to present and debate research findings in English, conduct education and research activity in foreign countries, ability to build international human networks.

Independence: the ability to plan research, provide leadership in education and research, ability to secure research funds, and problem-solving ability in the field.

HSE students are provided education programs to acquire above abilities.

HSE Students

Affiliation: any one of the following departments
   Civil and Earth Resources Engineering
   Urban Management
   Environmental Engineering

Education program:
   Integrated Engineering Course, Human Security Engineering Field
   (<u>Human Security Engineering Education (HSE) Program</u>)
      ・Doctoral Course Program
      ・Integrated Master's-Doctoral Course Program（5 years course）

➤ HSE students will complete the HSE education program by fulfilling the completion requirements of this program, rather than those of the department to which he/she belongs.

➤ Doctoral course students will be certified as a "Human Security Engineering Education Program Graduate" and will be conferred the program certificate aside from the doctoral degree certificate upon completion of HSE education program,

You are

1. **First-year masters course student in Master Integrated Master's-Doctoral Course Program（HSE 5 years course)**

 or

2. First-year Ph.D. student who proceed to doctoral course in HSE 5 years course.

or

3. **First-year Ph.D. student who have just enrolled in HSE doctoral course program.**

or

4. **First-year Ph.D. student who proceed to HSE doctoral course from Master's Program (2 years)**

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Affiliation: any one of the following departments
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Urban Management
Environmental Engineering

Education program:
Integrated Engineering Course, Human Security Engineering Field
(Human Security Engineering Education (HSE) Program)
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・Integrated Master's-Doctoral Course Program（5 years course)

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➢ **Doctoral course students will be certified as a "Human Security Engineering Education Program Graduate" and will be conferred the program certificate aside from the doctoral degree certificate upon completion of HSE education program,**

HSE Program: Available courses

Syllabus: doctoral course page 2, 5 years course page 2-3

Code	Subject	Teasher(s) in Charge	Hrs/Week 1st Semester	2nd Semester	Credits	Core subject	Major subject	ORT subject	Minor subject	Master course	Doctoral course
10X301	**Human Security Engineering**	**Yondea, Tachikawa, Tatano, Matsushima, Asari**		2	2	○				Compulsory (5 years cours)	Compulsory (3 years course)
10X305	Lectures on Urban Governance 1 (*)	Assorted Instructors	2		2		○		○		○
10X307	Lectures on Urban Governance 2 (*)	Assorted Instructors		2	2		○		○		○
10X311	**Urban Infrastructure Management**	**Ichikawa, Ohnishi, Takahaxhi, Tachikawa, Higo**	2		2	○	○		○	○	○
10X315	Lectures on Urban Infrastructure Management 1 (*)	Assorted Instructors	2		2		○		○		○
10X317	Lectures on Urban Infrastructure Management 2 (*)	Assorted Instructors		2	2		○		○		○
10X321	**Lectures on Environmental Risk Management Leader**	**Assorted Instructors**	2		2	○	○		○	○	○
10X323	Lectures on Health Risk Management 1 (*)	Assorted Instructors	2		2		○		○		○
10X325	Lectures on Health Risk Management 2 (*)	Assorted Instructors		2	2		○		○		○
10F456	New Environmental Engineering I	Echigo, Nishimura, Harada	2		2		○		○	○	○
10F458	New Environmental Engineering II	Takaoka, Fujimori, Oshita		2	2		○		○	○	○
10X750	Management of Global Resources and Ecosystems	Funakawa, Shibata, Tanaka	2		2		○		○	○	○
10X751	Environmental Ethics and Environmental Education	Asari, Trencher, Baars	2		2		○		○	○	○
10X333	**Disaster Risk Management**	**Tatano, Smaddar**	2		2	○	○		○	○	○
10X335	Lectures on Disaster Risk Management 1 (*)	Assorted Instructors	2		2		○		○		○
10X337	Lectures on Disaster Risk Management 2 (*)	Assorted Instructors		2	2		○		○		○
10X339	Internship for Human Security				2		○			○	○

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HSE Program: Available courses

- **Compulsory core subject: "Human Security Engineering"**
  start in the second semester

- **Core subject**

- **Major/minor subject**

- **ORT subject: Internship**

Program Accreditation for doctoral course for completion of HSE doctoral course program

Subjects category	Number of credits required for completion
Core subjects	= or > 4 credits including compulsory 2 credits of "Human Security Engineering". Other core subjects: Urban Infrastructure Management, Environmental Risk Management Leader, Disaster Risk Management
Major subjects	= or > 0 credits
Minor subjects	= or > 0 credits
ORT subjects	= or > 2 credits
Other subjects	Can be taken with the guidance and permission of supervisor.
(sum)	= or > 10 credits

Syllabus: doctoral course page 3

Program Accreditation for 5 years course

Subjects category	Number of credits required for completion	
	Master program	PhD program
Core subjects	= or > 4 credits Including compulsory 2 credits of "Human Security Engineering" →	Additionally = or > 0 credits
Major subjects	= or > 0 credits	= or > 0 credits
Minor subjects	= or > 0 credits	= or > 0 credits
ORT subjects	= or > 10 credits Including compulsory seminar of 8 credits →	Additionally = or > 0 credits
Other subjects	Can be taken with the guidance and permission of supervisor.	
(sum)	**= or > 30 credits** →	**Additionally =or >10 credits**

➢ **Master course students who proceed to doctoral course must complete the master course and pass the entrance examination for doctoral course.**

➢ **If you get more than 30 credits in master program, you can transfer extra credits (max 4 credits) to PhD program with application to administrative office at the beginning of PhD program.**

40 credits required for completion of this course include 30 credits required for completion of the master course.

Syllabus: 5 years course page 4

HSE Program: Available courses

Code	Subject	Teasher(s) in Charge	Hrs/Week		Credits	Course Specification				Available for	
			1st Semester	2nd Semester		Core subject	Major subject	ORT subject	Minor subject	Master course	Doctoral course
10X301	**Human Security Engineering**	**Yondea, Tachikawa, Tatano, Matsushima, Asari**		**2**	**2**	○				Compulsory (5 years cours)	Compulsory (3 years course)
10X305	Lectures on Urban Governance 1 (*)	Assorted Instructors	2		2		○		○		○
10X307	Lectures on Urban Governance 2 (*)	Assorted Instructors		2	2		○		○		○
10X311	**Urban Infrastructure Management**	**Tachikawa and Assorted Instructors**	**2**		**2**	○	○		○	○	○
10X315	Lectures on Urban Infrastracture	Assorted Instructors	2		2	○			○		○

Graduate-level subjects <u>not included in the table shown in Syllabus</u> may be considered as corresponding and equivalent to minor subjects under the instruction of your supervisor(s) for up to 4 credits.

Code	Subject	Teasher(s) in Charge	Hrs/Week		Credits	Course Specification				Available for	
10F458	New Environmental Engineering II	Takaoka, Ueda, Fujimori, Oshita		2	2		○		○	○	○
10X750	Management of Global Resources and Ecosystems	Funakawa, Shibata, Yamashita	2		2		○		○	○	○
10X751	Environmental Ethics and Environmental Education	Asari, Singer	2		2		○		○	○	○
10X333	**Disaster Risk Management**	**Tatano, Yokomatsu, Smaddar**	**2**		**2**	○	○		○	○	○
10X335	Lectures on Disaster Risk Management 1 (*)	Assorted Instructors	2		2		○		○		○
10X337	Lectures on Disaster Risk Management 2 (*)	Assorted Instructors		2	2		○		○		○
10X339	Internship for Human Security Engineering (Short)				2			○		○	○17
10X341	Advanced Capstone Project (Long)				8			○		○	

Code	Subject	Teasher(s) in Charge	Hrs/Week 1st Semester	Hrs/Week 2nd Semester	Credits	Core subject	Major subject	ORT subject	Minor subject	Master course	Doctoral course
10X301	**Human Security Engineering**	**Yondea, Tachikawa, Tatano, Matsushima, Asari**		**2**	**2**	○				Compulsory (5 years cours)	Compulsory (3 years course)
10X305	Lectures on Urban Governance 1 (*)	Assorted Instructors	2		2		○		○		○
10X307	Lectures on Urban Governance 2 (*)	Assorted Instructors		2	2		○		○		○
10X311	**Urban Infrastructure Management**	**Tachikawa and Assorted Instructors**	**2**		**2**	○	○		○	○	○
10X315	Lectures on Urban Infrastructure Management 1 (*)	Assorted Instructors	2		2		○		○		○
10X317	Lectures on Urban Infrastructure Management 2 (*)	Assorted Instructors		2	2		○		○		○
10X321	**Lectures on Environmental Risk Management Leader**	**Shimizu**	**2**		**2**	○	○		○	○	○
10X323	Lectures on Health Risk Management 1 (*)	Assorted Instructors	2		2		○		○		○

If you wish to take HSE Custom-made lectures(*), you must submit an "Registration Request Form for HSE Custom-made lecture" per subject to the C Cluster Office NO LATER THAN April 20, 2023.

The form is available at the C Cluster Office.

(*)

Lectures on Urban Governance 1

Lectures on Urban Infrastructure Management 1

Lectures on Health Risk Management 1

Lectures on Disaster Risk Management 1

Registration Request Form for HSE Custom-made lecture

Choose one and check

Develop a study plan in consultation with your supervisor and fill it in here.

Document without study plan and supervisor's signature will not be accepted.

Registration Request Form for HSE Custom-made lecture

Affiliation	Laboratory	Student ID	Name	Supervisor

Subject   Please check the subject which you want to register

check	Code	Subject
	10X305	Lectures on Urban Governance 1
	10X307	Lectures on Urban Governance 2
	10X315	Lectures on Urban Infrastracture Management 1
	10X317	Lectures on Urban Infrastracture Management 2
	10X323	Lectures on Health Risk Management 1
	10X325	Lectures on Health Risk Management 2
	10X335	Lectures on Disaster Risk Management 1
	10X337	Lectures on Disaster Risk Management 2

Instructor:

Content of the study worth 2 credit:

Supervisor's signature _____

Code	Subject	Teasher(s) in Charge	Hrs/Week 1st Semester	Hrs/Week 2nd Semester	Credits	Course Specification Core subject	Course Specification Major subject	Course Specification ORT subject	Course Specification Minor subject	Available for Master course	Available for Doctoral course
10X301	**Human Security Engineering**	**Yondea, Tachikawa, Tatano, Matsushima, Asari**		**2**	**2**	○				Compulsory (5 years cours)	Compulsory (3 years course)
10X305	Lectures on Urban Governance 1 (*)	Assorted Instructors	2		2		○		○		○
10X307	Lectures on Urban Governance 2 (*)	Assorted Instructors		2	2		○		○		○
10X311	**Urban Infrastructure Management**	**Tachikawa and Assorted Instructors**	**2**		**2**	○	○		○	○	○
10X315	Lectures on Urban Infrastructure Management 1 (*)	Assorted Instructors	2		2		○		○		○
10X317	Lectures on Urban Infrastructure Management 2 (*)	Assorted Instructors		2	2		○		○		○
10X321	**Lectures on Environmental Risk Management Leader**	**Shimizu**	**2**		**2**	○	○		○	○	○
10X323											
10X325											
10F456											
10F458											
10X750											
10X751											
10X333											
10X335											
10X337											
10X339											
10X341	Advanced Capstone Project (Long)				8			○		○	○
	Rsearch Paper (Doctoral)										

The subjects with white circles (○) in the both columns of Master and Doctoral course of the Registration Type on the Subject List are available for credits in Doctoral course, only if you have never acquired those subjects in Master course.

Class Registration

You are required register the courses you want to take on KULASIS (Kyoto University Student Affairs Information System)

https://student.iimc.kyoto-u.ac.jp/

Important dates

◆**Timetable preparation : April 4 to April 18**

◆**Class Registration : April 19 to April 20**

◆**Confirmation/Change : April 25 to April 26**

Please see http://www.z.k.kyoto-u.ac.jp/freshman-guide/kulasis and KULASIS manual in English https://www.z.k.kyoto-u.ac.jp/pdf/kulasis/kulasis_guide_en.pdf?42

Classes will start on April 10.

PandA

➢ **PandA is the learning support system.**

➢ **Students use contents connected with their classes from WWW browser in this service.**

➢ **In getting this service it requires to use students' account(ECS-ID)**

➢ **PandA is coordinated with KULASIS and subjects**

PandA Student's Manual

http://www.iimc.kyoto-u.ac.jp/services/ecs/pdf/en_chapter9.pdf

Lectures

➢ **In many courses, announcements are given in PandA.**
➢ **Students should prepare to join the courses which you want to take in the following steps.**

① **Class registration on KULASIS**

   Prepare timetable as soon as possible

② **Click on each course in your timetable page**

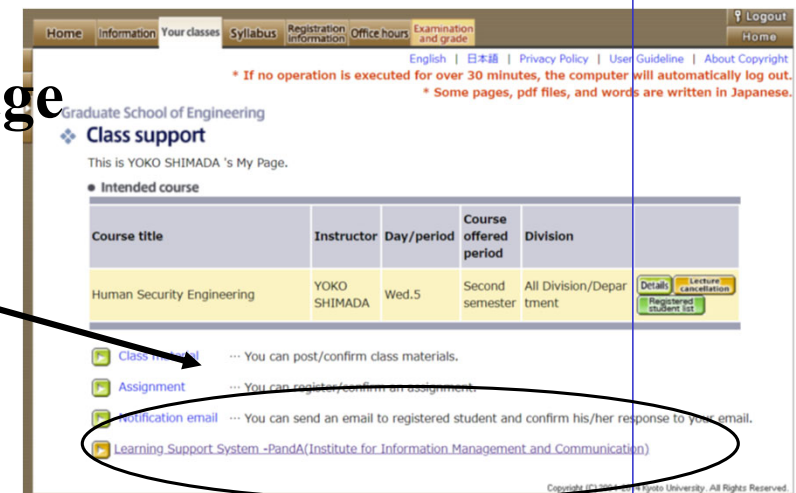③ **Click "class support" tab**

④ **Then you can find "PandA" link.**

   Please click this link.

⑤ **Login PandA**

   Enter your ECS-ID or registered E-mail address and password, and then click " ログイン" to log in.

⑥ **The corresponding course site will be displayed.**

 → Click "Announcements" to get an information about this lecture.

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ORT subject

Doctoral Course

- **Internship for Human Security Engineering (Short)**
- **Advanced Capstone Project (Long)**

Master's Course

- **Internship for Human Security Engineering (Short)**
- **Advanced Capstone Project (Long)**
- **Human Security Engineering Seminar A**
- **Human Security Engineering Seminar B**

You don't need to register on KULASIS.
The evaluation for the credits of these subjects is related to your research study for your master's thesis.
The students who could complete their master's thesis and get the credit at the end of their master course, will also get the credits for "Seminar A and B" at that time.

HSE Internship Subjects(ORT subject)

HSE Internship (Short) – 2 credits

2 weeks (practically 10 days)

Examples: "Attend only" will not be accepted

- **Presentation at international conference followed by information collection relevant to your doctoral/master research at laboratories of foreign universities and authorities.**
  (Including online conference or online research activities as an exception in the new coronavirus pandemic)

- **Normal internship activities at private companies to study the state of the cutting-edge technologies or practical business.**
  (Including online internship as an exception in the new coronavirus pandemic)

Advanced Capstone Project (Long) – 8 credits

2 months (practically $\times \dfrac{5}{7}$)

Examples:

- **Fieldwork at overseas base for your doctoral research.**
- **Working as a visiting researcher at agencies/organizations**

Rule for HSE Internship

1) Contact your supervisor and make plans for internship with your supervisor's advice.

   Your internship needs your supervisor's approval.

2) Before each internship, 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).

3) After completing all of the internships, submit the report on internship (Binding form: **HSE-013/014** and Report form: **HSE-015**) to your supervisor and HSE Center (kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp).

※ You could access our website (http://hse.gcoe.kyoto-u.ac.jp/en/inside/form/index.html) and download these template files.

Notice

- ✓ **You can combine several internships into one. The total length of internships should sum up to 2 weeks or 2 months.**

- ✓ **As ORT subjects are <u>all-year</u> ones, you must register them at the beginning of the first semester and can get the credit at annual end-of-classes.**

- ✓ **Students who want to extend internship to the next year should register internship subject at the beginning of the first semester once more.**

- ✓ **As for report, you should write one report with all internships.**

HSE Program Portfolio

✓ **Students should submit <u>Kyoto University Human Security Engineering Education Program Portfolio</u> to your supervisor using the e-portfolio system called STEP.**

✓ **Please access to the following URL using your student number or ECS-ID and fill out all forms you can fill out now.**

   https://kar.gakusei.kyoto-u.ac.jp/portal/login/

✓ **We will ask your supervisor to check it and certify what you fill out.**

Contact Information

- **<u>HSE center</u>**

  Office: C1-3-Room 182 (located near the entrance)

  Secretary of HSE Program, Emi MORI

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

  TEL: 075-383-3412

  Website: http://hse.gcoe.kyoto-u.ac.jp/index.html

Please use always this e-mail address.
Director, Vice director, Mori san and I can receive your e-mail if you use this address.