

# 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. Student self-introduction**
- 4. Guidance for HSE course**

# **HSE staff**

- **Director of HSE Program**

**Prof. Taku FUJIWARA**

- **Educational Coordinator of HSE Program**

**Prof. Yoko SHIMADA**

- **Secretary of HSE Program**

**Yoko YAMAMOTO**

# **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.**

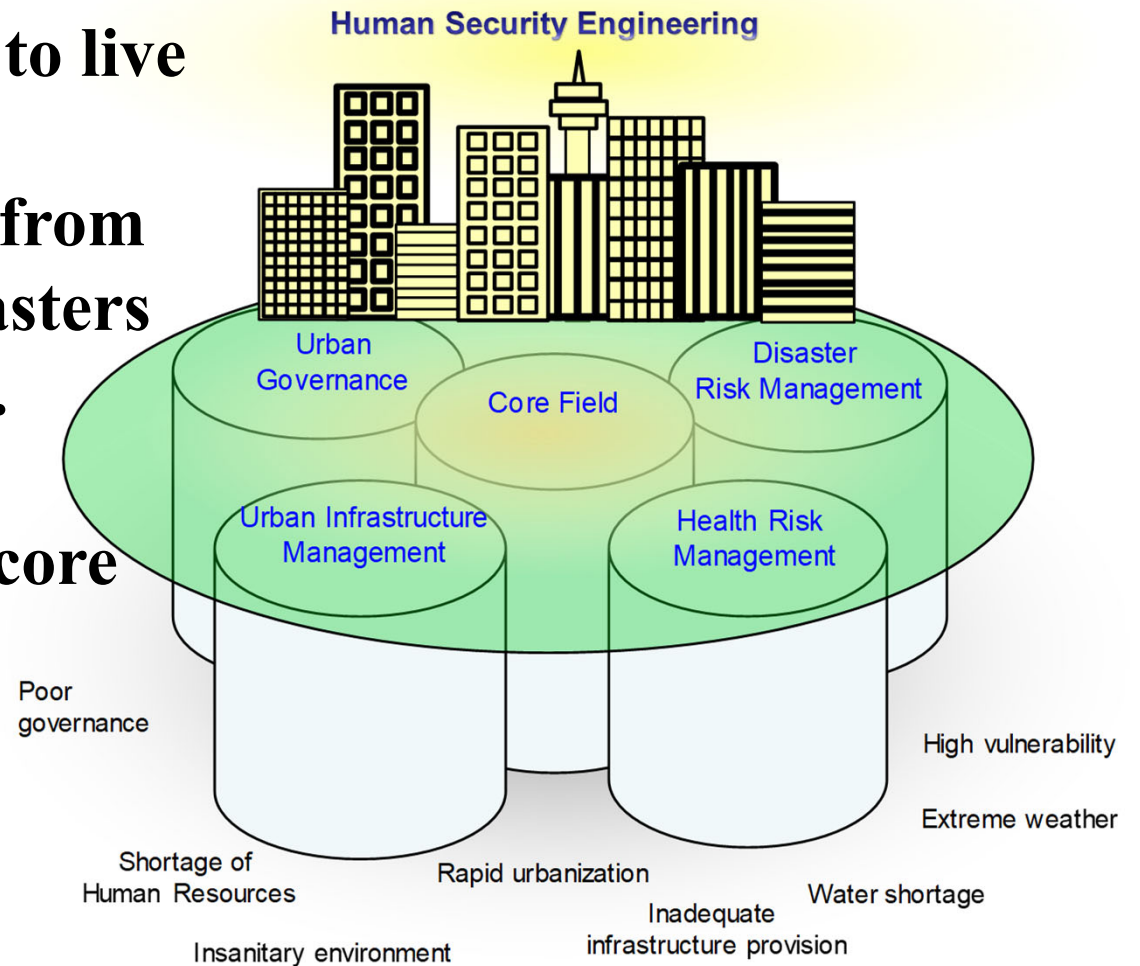
**Human Security Engineering**

# 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



# Mission of HSE Education program

- **To foster researchers and engineers with creativity, internationality and independence.**
- **To foster researchers and engineers 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 of Graduate School of Engineering**  
**Civil and Earth Resources Engineering**  
**Urban Management**  
**Environmental Engineering**

## **Education program:**

**Integrated Engineering Course, Human Security Engineering Field**  
**(Human Security Engineering Education (HSE) Program)**

- **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.



## Type of new students

**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)**

# HSE Program: Available courses

Syllabus: page 2

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	<b>Human Security Engineering</b>	<b>Fujiwara, Ohnishi, Yorozu, Nishimura, Fujimori, Tatano, Harada, Nakao, Shimada</b>		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	<b>Urban Infrastructure Management</b>	<b>Ichikawa, Ohnishi, Takahashi, Tachikawa, Higo</b>	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	<b>Lectures on Environmental Risk Management Leader</b>	<b>Assorted Instructors</b>	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, Yamamoto		2	2		○		○	○	○
10X750	Management of Global Resources and Ecosystems	Funakawa, Shibata, Tanaka	2		2		○		○	○	○
10X751	Environmental Ethics and Environmental Education	Trencher, Baars	2		2		○		○	○	○
10X333	<b>Disaster Risk Management</b>	<b>Tatano, Smaddar</b>	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			○		○	○

# HSE Program: Available courses

- **Compulsory core subject: “Human Security Engineering”**
  - **Core subject**
  - **Major/minor subject**
  - **ORT subject: Internship**
- start on Oct. 2 at 16:45  
(Tomorrow)

# Accreditation for completion of HSE doctoral course

For

First-year Ph.D. student who have just enrolled in HSE doctoral course program or who proceed to HSE doctoral course from Master's Program (2 years)

Syllabus: page 3

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

# Program Accreditation for 5 years course

Subject category	Number of credits required for completion	
	Master program	PhD program
<b>Core subjects</b>	= 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
<b>ORT subjects</b>	= 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.	
<b>(sum)</b>	= or > 30 credits	<b>Additionally = or &gt; 10 credits</b>

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

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	Fujiwara, Ohnishi, Yorozu, Nishimura, Fujimori, Tatano, Harada, Shimada		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, Takahashi, Tachikawa, Higo	2		2	○	○		○	○	○
10X315	Lectures on Urban Infrastructure						○		○		○

**If you wish to take HSE Custom-made lectures(\*) in the 2nd semester, you must submit an “Registration Request Form for HSE Custom-made lecture” per subject to the C Cluster Office NO LATER THAN Oct. 10, 2024.**

**You can download from the following site:**

[https://fsv.iimc.kyoto-u.ac.jp/public/TAWgQAUY84nAuIwBkuCHbdUN\\_BmBylxs1TN0YBCgM2j](https://fsv.iimc.kyoto-u.ac.jp/public/TAWgQAUY84nAuIwBkuCHbdUN_BmBylxs1TN0YBCgM2j)

**(\*) Lectures on Urban Governance 2**

**Lectures on Urban Infrastructure Management 2**

**Lectures on Health Risk Management 2**

**Lectures on Disaster Risk Management 2**

# Registration Request Form for HSE Custom-made lecture

## Registration Request Form for HSE Custom-made lecture

Affiliation	Laboratory	Student ID	Name	Supervisor

Doctoral students only. Master students are not eligible for application.

Subject Please check the subject which you want to register

check	Code	Subject
<input type="checkbox"/>	10X305	Lectures in Urban Governance 2
<input checked="" type="checkbox"/>	10X315	Lectures in Urban Infrastructure Management 2
<input type="checkbox"/>	10X323	Lectures in Health Risk Management 2
<input type="checkbox"/>	10X335	Lectures in Disaster Risk Management 2

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.

Instructor:
Content of the study worth 2 credit:

Supervisor's signature \_\_\_\_\_

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	Fujiwara, Ohnishi, Yorozu, Nishimura, Fujimori, Tatano, Harada, Shimada		2	2	○				Compulsory (5 years cours)	Compulsory (3 years course)
10X305	Lectures on Urban Governance 1 (*)	Assorted Instructors	2		2		○		○		○

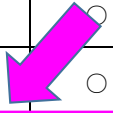
**You can take graduate-level subjects not included in the table shown in Syllabus.**

**They may be recognized as subjects required for completion (minor subjects) under the instruction of your supervisor(s) for up to 4 credits.**

10F458	New Environmental Engineering II	Takaoka, Fujimori, Oshita, Yamamoto		2	2		○		○	○	○
10X750	Management of Global Resources and Ecosystems	Funakawa, Shibata, Tanaka	2		2		○		○	○	○
10X751	Environmental Ethics and Environmental Education	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		○		○		○



Code	Subject	Teasher(s) in Charge	Hrs/Week		Credits	Course Specification				Available for	
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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, Takahashi, Tachikawa, Higo	2		2	○	○		○	○	○
10X315	Lectures on Urban Infrastructure Management 1 (*)	Assorted Instructors	2		2		○		○		○
10X317											○
10X321	L										○
10X323											○
10X325											○
10F456	N										○
10F458	N										○
10X750	M										○
10X751											○
10X333											○
10X335	Management 1 (*)										○
10X337	Lectures on Disaster Risk Management 2 (*)	Assorted Instructors		2	2		○		○		○
10X339	Internship for Human Security Engineering (Short)				2			○		○	○



**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 Sept.18 to Oct.9

◆ **Class Registration : Oct. 10 to Oct. 11**

◆ Confirmation/Change : Oct. 17 to Oct. 18

Please see KULASIS User's Guide for students in English

[https://www.z.k.kyoto-u.ac.jp/pdf/kulasis/kulasis\\_guide\\_en.pdf?49](https://www.z.k.kyoto-u.ac.jp/pdf/kulasis/kulasis_guide_en.pdf?49)

Classes start today

# HSE Timetable for the second semester

Second semester	Mon.	Tue.	Wed.	Thurs.	Fri.
1 8:45 ~ 10:15					
2 10:30 ~ 12:00					
3 13:15 ~ 14:45					
4 15:00 ~ 16:30					
5 16:45 ~ 18:15	<b>New Environmental Engineering II, Advanced</b> (Takaoka, Fujimori, Oshita, Yamamoto) Katsura C1-171, Reserch Bldg.No.5- Lecture Room(2nd floor) <b>media</b>		<b>Human Security Engineering</b> (Related instructors) Katsura C1-171		

# 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.

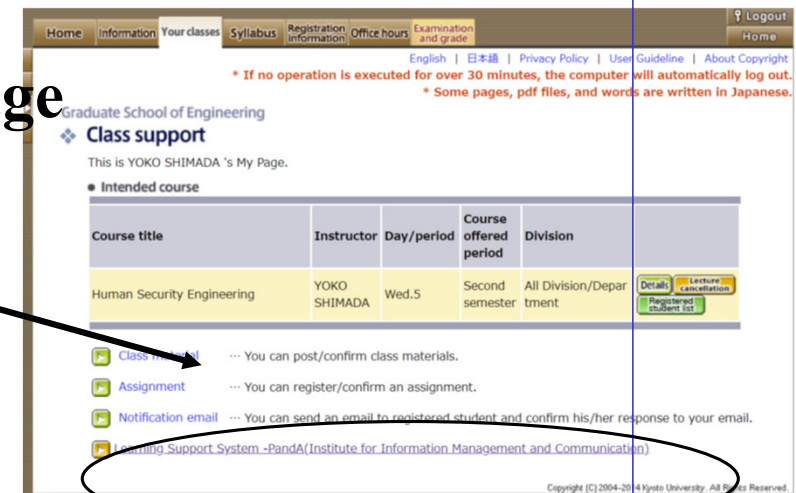
## ⑤ Login **Panda**

<https://panda.ecs.kyoto-u.ac.jp/portal>

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.



# 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**

ユーザ ID およびパスワードを入力してください。教職員等は SPS-ID、学生は ECS-ID をユーザ ID に入力します。それ以外の方は Sakai に登録したメールアドレスを入力します。SPS-ID を発行されている教職員は ECS-ID でログインしないで下さい。

ユーザー ID:

パスワード:

[i. SPS-ID および ECS-ID とは? What is SPS-ID and ECS-ID?](#)

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**Detailed explanation of PandA:**

<https://www.iimc.kyoto-u.ac.jp/en/services/education/lms/>

# **ORT subject**

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

# HSE Internship Subjects(ORT subject)

Syllabus: page 9

## 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.
- Normal internship activities at private companies to study the state of the cutting-edge technologies or practical business.

## Advanced Capstone Project (Long) – 8 credits

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

Examples:

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

# Rules 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 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](mailto: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](mailto:kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp)).**

※ You can 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 all-year 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.**
- ✓ **Students who entered Kyoto Univ. in October can't register ORT subjects in October. But they can start an internship. They should register ORT subjects next April.**

# HSE Program Portfolio

- ✓ **Students should submit Kyoto University Human Security Engineering Education Program Portfolio 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

- **Director of HSE Program, Prof. Taku FUJIWARA**
- **Educational Coordinator of HSE Program,  
Prof. Yoko SHIMADA**

- **HSE office**

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

**Secretary of HSE Program, Yoko YAMAMOTO**

**E-mail : [kyomu\\_gcoe@hse.gcoe.kyoto-u.ac.jp](mailto:kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp)**

**TEL: 075-383-3412**

**Please use this email address if you wish to contact the HSE Office and Educational coordinator of HSE.**

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

**Compulsory core subject**

# **Human Security Engineering**

**Start at 16:30, October 2**

**Lecture room 171**