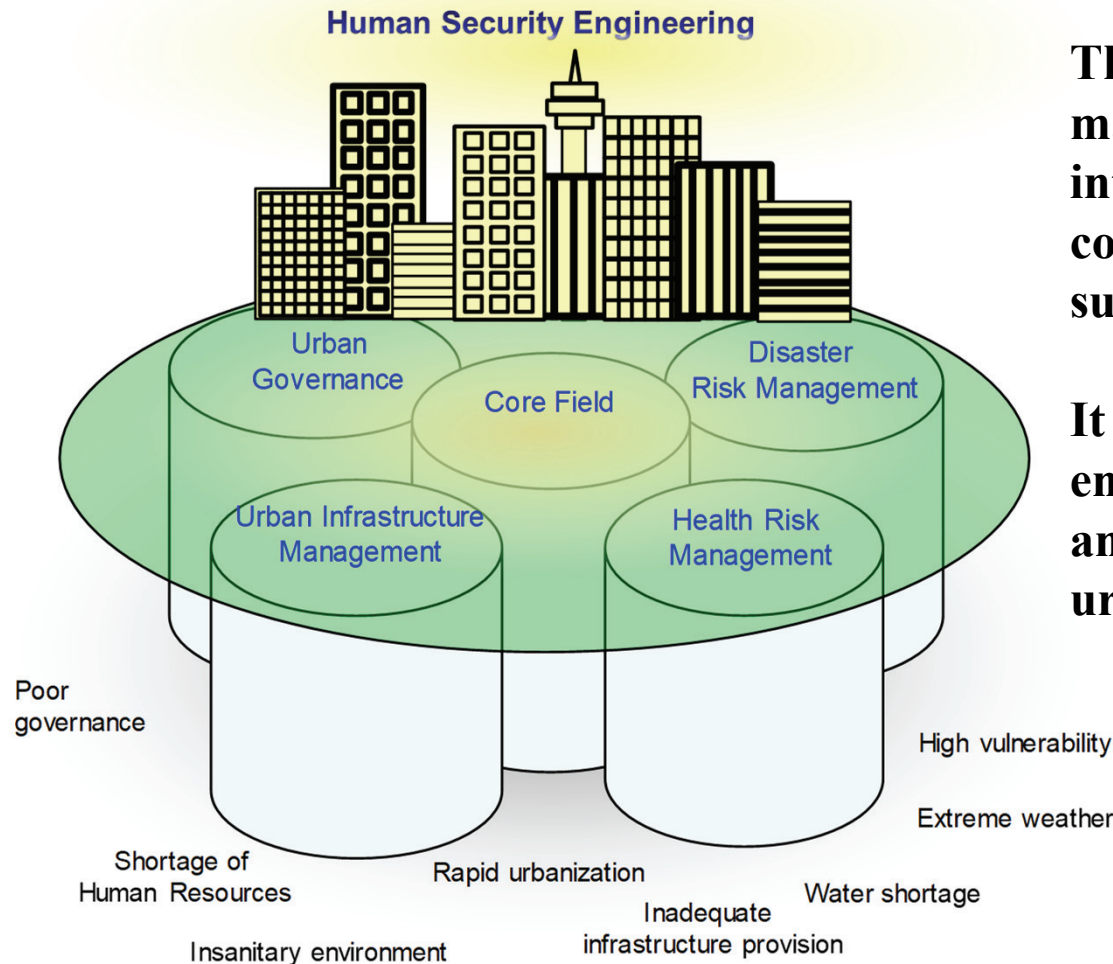


Guidance for HSE course

October 2020

16:00~

What is the "Human Security Engineering Education Program"?



This program is intended for doctoral and master course students to acquire interdisciplinary and solid education in the core field and four related fields that support urban human security engineering.

It will foster researchers and advanced engineers who have the ability to integrate and apply their knowledge toward ensuring urban human security.

Core field and four related fields that support urban human security engineering

**Syllabus: doctoral course page 1
5 years course page 1**

Mission of HSE course

Fostering of creative, international, and independent researchers and engineers with education in four related academic fields (**urban governance, urban infrastructure management, health risk management and disaster risk management**), who will have the 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

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
(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,

HSE Program: Available courses

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

| Code | Subject | Teasher(s) in Charge | Hrs/Week | | Credits | Course Specification | Teacher(s) in Charge | Hrs/Week | | Credits | Course Specification | | | | Available for | |
|--------|---|--|--------------|--------------|---------|----------------------------------|---|---|---------------------------------|---------|----------------------|---------------|-------------|---------------|---------------|-----------------|
| | | | 1st Semester | 2nd Semester | | | | 1st Semester | 2nd Semester | | Core subject | Major subject | ORT subject | Minor subject | Master course | Doctoral course |
| 10X301 | Human Security Engineering | Yoneda, Tachikawa, Tanaka(Hiro), Tatano, Matsushima, Asari | | 2 | 2 | Compulsory Core subject | Engineering | | 2 | 2 | | | | | Compulsory | |
| | | | | | | | Governance 1(*) | Assorted Instructors | 2 | 2 | | | | | | |
| 10X305 | Lectures on Urban Governance 1 (*) | Assorted Instructors | 2 | | 2 | Major/minor subject | Governance 2(*) | Assorted Instructors | | 2 | 2 | | | | | |
| 10X307 | Lectures on Urban Governance 2 (*) | Assorted Instructors | | 2 | 2 | Major/minor subject | Infrastructure Management | Ohtsu and Assorted Instructors | 2 | | 2 | | | | | |
| 10X311 | Urban Infrastructure Management | Tachikawa and Assorted Instructors | 2 | | 2 | Core subject Major/minor subject | Infrastructure Management 1(*) | Assorted Instructors | 2 | | 2 | | | | | |
| | | | | | | | Infrastructure Management 2(*) | Assorted Instructors | | 2 | 2 | | | | | |
| 10X315 | Lectures on Urban Infrastructure Management 1 (*) | Assorted Instructors | 2 | | 2 | Major/minor subject | Environmental Risk Leader | Fujii, Tanaka(Hiro), Shimizu | 2 | | 2 | | | | | |
| 10X317 | Lectures on Urban Infrastructure Management 2 (*) | Assorted Instructors | | 2 | 2 | Major/minor subject | Health Risk Management 1(*) | Assorted Instructors | 2 | | 2 | | | | | |
| 10X321 | Lectures on Environmental Risk Management Leader | Fujii, Tanaka(Hiro), Shimizu | 2 | | 2 | Core subject | Health Risk Management 2(*) | Assorted Instructors | | 2 | 2 | | | | | |
| 10X323 | Lectures on Health Risk Management 1 (*) | Assorted Instructors | 2 | | 2 | Major/minor subject | Global Resources Systems | Funakawa, Shibata, Yamashita | 2 | | 2 | | | | | |
| 10X325 | Lectures on Health Risk Management 2 (*) | Assorted Instructors | | 2 | 2 | Major/minor subject | Ethics and Education | Asari, Singer | 2 | | 2 | | | | | |
| 10F456 | New Environmental Engineering I | Shimizu, Tanaka(Hiro), Fujii | 2 | | 2 | Major/minor subject | Disaster Risk Management | Tatano, Yokomatsu, Samaddar | 2 | | 2 | | | | | |
| 10F458 | New Environmental Engineering II | Takaoka, Fujii, Ueda, Fujimori, Oshita | | 2 | 2 | Major/minor subject | Disaster Risk Management 1(*) | Assorted Instructors | 2 | | 2 | | | | | |
| 10X750 | Management of Global Resources and Ecosystems | Funakawa, Shibata, Yamashita | 2 | | 2 | (*)Major/minor subject | Disaster Risk Management 2(*) | Assorted Instructors | | 2 | 2 | | | | | |
| 10X751 | Environmental Ethics and Environmental Education | Asari, Singer | 2 | | 2 | (*)Major/minor subject | Human Security (Short) | | (2) | (2) | 2 | | | | | |
| 10X333 | Disaster Risk Management | Tatano, Yokomatsu, Smaddar | 2 | | 2 | Core subject Major/minor subject | Project (Long) | | (8) | (8) | 8 | | | | | |
| | | | | | | | Engineering A | | (4) | (4) | 4 | | | | | Compulsory |
| 10X335 | Lectures on Disaster Risk Management 1 (*) | Assorted Instructors | 2 | | 2 | Major/minor subject | Engineering B | | (4) | (4) | 4 | | | | | Compulsory |
| 10X337 | Lectures on Disaster Risk Management 2 (*) | Assorted Instructors | | 2 | 2 | Major/minor subject | Infrastructure Engineering | Assorted Instructors | | 2 | 2 | | | | | |
| 10X339 | Internship for Human Security Engineering (Short) | | | | 2 | ORT subject | Engineering for Development and Environment | Hosoda, Toda, Gotoh, Tachikawa, Ichikawa, Khayyer, Kim, Otoda | | 2 | 2 | | | | | |
| 10X341 | Advanced Capstone Project (Long) | | | | 8 | ORT subject | Stability | Sugiura, Kitane | 2 | | 2 | | | | | |
| | | | | | | | Natural System & Environment | Kawano, Hattori, Yamamoto | 2 | | 2 | | | | | |
| | | | | | | | Research Paper (Doctoral) | | | | | | | | | |
| | | | | | | | 10F011 | Computational Fluid Dynamics | Ushijima, Gotoh, Khayyer, Toriu | | 2 | 2 | | | | |
| | | | | | | | 10F261 | Earthquake Engineering/Lifeline | Kivono, Igarashi | 2 | | 2 | | | | |

HSE Program: Available courses

- **Compulsory core subject: “Human Security Engineering”**
- **Core subject** start on October 7
- **Major/minor subject**
- **ORT subject: Internship**

Note:

- 1) **All lectures are conducted in English.**
- 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 the table shown in Syllabus may be considered as corresponding and equivalent to minor subjects under the instruction of your supervisor(s) for up to 4 credits.**

4) If you wish to take HSE Custom-made lectures(*), you must submit an “Auditing Request Form for HSE Custom-made lecture” per subject to the C Cluster Office NO LATER THAN October 13, 2020.

The form is available at the C Cluster Office.

- (*) Lectures on Urban Governance 2
- Lectures on Urban Infrastructure Management 2
- Lectures on Health Risk Management 2
- Lectures on Disaster Risk Management 2

Program Accreditation for PhD

| 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 includes 30 credits required for completion of the master course.

Lectures

—Response to the Novel Coronavirus (COVID-19)—

- Many courses will be held online using Panda and ZOOM system.
- Students should prepare to join the courses which you want to take in the following steps.

① Class registration on **KULASIS** (see next slide)

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.

The screenshot shows the KULASIS website interface. At the top, there are navigation tabs: Home, Information, Your classes, Syllabus, Registration information, Office hours, Examination and grade, and Logout. Below the navigation, there is a message: "If no operation is executed for over 30 minutes, the computer will automatically log out. * Some pages, pdf files, and words are written in Japanese." The main content area is titled "Graduate School of Engineering" and "Class support". It says "This is YOKO SHIMADA's My Page." and lists "Intended course". A table shows the course details:

| Course title | Instructor | Day/period | Course offered period | Division |
|----------------------------|--------------|------------|-----------------------|-------------------------|
| Human Security Engineering | YOKO SHIMADA | Wed.5 | Second semester | All Division/Department |

Below the table, there are several links: "Class material", "Assignment", "Notification email", and "Learning Support System -Panda(Institute for Information Management and Communication)". The "Learning Support System -Panda" link is circled in red. An arrow points from the text "Please click this link." to this link.

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

As soon as possible!

◆ **Timetable preparation : 23 September to 11 October**

◆ **Class Registration : 12 October to 13 October**

◆ **Confirmation/Change : 16 October to 19 October**

◆ **Finalizing registration : 17:00 on 21 October**

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

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) and Faculty and Staff's account(SPS-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 ID:

パスワード:

ログイン

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

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PandA Student's Manual

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

HSE Internship Subjects(ORT subject)

Syllabus: doctoral course page 9
5 years course page 15

HSE Internship (Short) – 2 credits

2 weeks (practically 10 days)

Examples:

- **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 $\times \frac{5}{7}$)

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

HSE Program Portfolio

Submission of HSE Program Portfolio

➤ First-year master students:

should submit HSE Program Portfolio (Form **HSE5-003**) to your supervisor and its only first page (with your supervisor's signature)(PDF file) to HSE Center (kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp)

➤ First-year doctoral student:

should submit HSE Program Portfolio (Form **HSE-003**) to your supervisor and its only first page (with your supervisor's signature)(PDF file) to HSE Center (kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp)

➤ Portfolio Forms can be downloaded from <http://hse.gcoe.kyoto-u.ac.jp/en/inside/form/index.html>

➤ Deadline of submission: October 13, 2020 .

Compulsory core subject
Human Security Engineering

First lecture will start at 16:30 on October 7.

- **Please login Panda**
 - Enter your ECS-ID or registered E-mail address and password, and then click "ログイン" to log in.**
- **“人間安全保障工学概論 Human Security Engineering” site will be displayed.**
 - Click “Announcements” to get an information about this lecture.**
- **We will do the guidance of this lecture.**

Contact Information

- **Director of HSE Program, Prof. Yoshihisa SHIMIZU**
- **Educational Coordinator of HSE Program, Assoc. Prof. Yoko SHIMADA**
- **HSE center**
Secretary of HSE Program, Chikako TOMISHIMA
E-mail : kyomu_gcoe@hse.gcoe.kyoto-u.ac.jp
TEL: 075-383-3412
Website: <http://hse.gcoe.kyoto-u.ac.jp/index.html>