社会基盤工学専攻・都市社会工学専攻
高度工学コース　博士1回生ガイダンス

説明資料

令和 6 年 9 月 27 日（金）16:00～17:00

オンライン

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社会基盤工学専攻・都市社会工学専攻
博士後期課程(高度工学コース)1回生ガイダンス
(令和 6 年 9 月 27(金) 16:00～17:00 オンライン)

(1) 専攻長・教務紹介

・専攻長　　山本 貴士 教授　(社会基盤，C1-3-455 号室)
　　安原 英明 教授　(都市社会，C1-2-212 号室)
・教務　　澤村 康生 准教授(都市社会，C1-2-336 号室，sawamura.yasuo.6c@kyoto-u.ac.jp)
・教務補佐　橋本 涼太 准教授(社会基盤，C1-4-581 号室)

(2) 配布資料

〈工学研究科資料〉
- 2024 年度大学院学修要覧
- Campus Life Information 2024（旧学生便覧)，安全の手引き
- 研究公正パンフレット，研究データ保存パンフレット，情報セキュリティ対策のお願い

他

〈社会基盤・都市社会工学専攻資料〉
- 授業時間割（前期・後期)
- 博士 1 回生ガイダンス　説明資料

他

(3) 履修指導【15 分程度】

- **修了要件**
  ＊ Instructions on Registration （履修指導）参照 (資料 2)
  （学修要覧：pp.57-61（社会基盤高度)，pp.62-66（都市社会高度))
- 博士後期課程用の講義（学修要覧：pp.58-59（社会基盤高度)，pp.63-64（都市社会高度))
  ＊ 社会基盤工学総合セミナーA, B，都市社会工学総合セミナーA, B（資料 4-1)
  ＊ 社会基盤工学 ORT，都市社会工学 ORT（資料 4-2)
- 隔年開講，英語科目（開講時期含む)
- 在学期間の短縮
- **履修登録**

  工学研究科提供科目の履修登録は各曜時限 1 科目を KULASIS から登録する．
  未登録科目は単位認定されない．
  1 年度後期の日程は下記のとおり．以降も，当該期にその都度登録する．
  今年度は原則対面で授業が行われる予定．授業の連絡は KULASIS および PandA を通して行われる．**履修科目については早めの登録を！**

  1. KULASIS 時間割作成期間（履修科目の選択)：10 月 1 日（火）～10 月 9 日（水）
     時間割作成（履修科目の選択）が終了したら**履修登録科目選択リスト**(資料 3-1)を印刷し，**指導教員の署名**（または捺印）をもらった後にスキャンして**ポートフォリオと一緒に** PDF ファイルにまとめて PandA **から提出**する．
     （**締切 10 月 8 日（火）17 時**，こちらの締切が早いので早めに時間割を作成する）
  2. 他研究科科目・学部科目聴講申請期間：10 月 1 日（火）～10 月 7 日（月）
     他研究科科目の聴講は KULASIS で申請する．KULASIS で申請できない科目については「他研究科・他学部聴講願」を C クラスター教務掛へ提出（10 月 4 日締切)．

様式は下記より DL すること.
https://fsv.iimc.kyoto-u.ac.jp/public/TAWgQAUY84nAuIwBkuCHbdUN_BmBylxsz1TN0YBCgM2j
他専攻，他研究科の講義科目の受講については指導教員と相談の上決めること.

3. KULASIS 履修登録期間（履修科目の決定）: 10 月 10 日（木）～10 月 11 日（金）
履修科目の選択だけでは履修が未決定のままなので，履修登録期間中に必ず決定させること.
4. KULASIS 登録の確認・修正期間：10 月 17 日（木）～10 月 18 日（金）

- **ポートフォリオ** (資料 3)
指導教員と相談の上，ポートフォリオを作成し提出すること.
提出先 PandA サイト：[2024 CE_UM] D1 (Enrolled in Oct.) Portfolio
提出締切：10 月 8 日（火）17 時
履修届 (資料 3-1)と一緒に必要箇所のコピーを提出し，原本は大切に保管すること.

注）ポートフォリオ作成時の注意事項
1. 主/副指導教員のサイン以外は，Microsoft Word を使用して作成すること.
2. ひな型のファイルは下記の都市社会工学専攻ホームページからダウンロードできる.
3. 主/副の指導教員のサインは直筆とする.

- 教務情報の WEB ページ（http://www.um.t.kyoto-u.ac.jp/ja/oncampus/kyomu2024）
- 日本学生支援機構奨学金
詳細は桂 C クラスター事務室まで
- 傷害保険（学研災，付帯賠責）への加入.
https://www.kyoto-u.ac.jp/ja/education-campus/campuslife/Insurance
- レポート試験の取り扱いについて (資料 5)

(4) その他の連絡【数分程度】
- 京都大学大学院共通「研究公正と倫理」
- 情報セキュリティ対策

(5) **安全教育**
- 配布した資料を各自がしっかり学習すること

Dept. of Civil and Earth Resources Eng. and Dept. of Urban Management
Guidance for The First Year Students in Doctoral Program
(Date: 16:00 - 17:00, Friday, September 27th, 2024, Online)

(1) **The Heads and Educational Affairs of Departments**

- The Heads of Departments
  Prof. Takashi Yamamoto (Civil and Earth Resources Eng., Room C1-3-455)
  Prof. Hideaki Yasuhara (Urban Management, Room C1-2-212)
- Educational Affairs
  Assoc. Prof. Yasuo Sawamura (Urban Management, Room C1-2-336)
  Contact to: sawamura.yasuo.6c@kyoto-u.ac.jp
- Assistant to Educational Affairs
  Assoc. Prof. Ryota Hashimoto (Civil and Earth Resources Eng., Room C1-4-581)

(2) **Overview of Handouts**

- Guidance for the First Year Students in Doctoral Program (this booklet)
- Educational Guidelines (Japanese handouts)（2024 年度大学院学習要覧）
- Responsible Academic Research, Information Security Measures, etc.

(3) **Instructions on Registration** [Educational Affairs, 15 minutes (approx.)] (document no.2)

- **Requirements for Completion** and Credits → Educational Guidelines (see appendix)
  Advanced Engineering Course Program of the Department of Civil and Earth Resources Eng. (pp.57-61)
  Advanced Engineering Course Program of the Department of Urban Management (pp.62-66)
- Subjects for doctoral course → Educational Guidelines (see appendix)
  Advanced Engineering Course Program of the Department of Civil and Earth Resources Eng. (pp.58-59)
  Advanced Engineering Course Program of the Department of Urban Management (pp.63-64)
  - Integrated Seminar on Infrastructure Engineering A&B /Urban Management A&B (document no.4-1)
  - ORT on Infrastructure Engineering A&B /Urban Management A&B (document no.4-2)
- Biennial subjects, English subjects
- Shortening the period of study

- **Class Registration**
  - The classes given by the graduate school of engineering including our departments must be registered from KULASIS (a web for education).
  - KULASIS URL : https://student.iimc.kyoto-u.ac.jp
  - The schedule of the class registration is as follows:
    1. Timetable preparation: Oct. 1 (Tue.) – Oct. 9 (Wed.)
       After preparation of the timetable, **print out the prepared class timetable** (document no.3-1) and **get a supervisor's signature** or **seal on it**, and then **submit the scanned file (pdf) of the timetable and the portfolio via PandA** (Deadline: **Oct. 8 (Tue.) 17:00**, Deadline of submitting portfolio is earlier than class registration)
    2. Class registration: Oct. 10 (Thu.) – Oct. 11 (Fri.)
       Note that the timetable preparation is just a preparation. Do not forget to fix the registration.
    3. Confirmation/Change: Oct. 17 (Thu.) – Oct. 18 (Fri.)

- In this academic year, all classes are face-to-face in principle. The information about classes will be available through KULASIS and PandA. **Please register as soon as possible.**
- If you wish to take courses from other graduate schools and undergraduate courses (Faculty of Engineering, other faculties), you must apply (*) on KULASIS from Oct. 1 (Tue.) to Oct. 7 (Mon), and get approved.
  *If you cannot apply for the desired subject on KULASIS, please submit the "Application for Auditing Other Graduate Schools/Faculties" to the C Cluster Office by Oct. 4 (Fri).
  Please download the form below.
  https://fsv.iimc.kyoto-u.ac.jp/public/TAWgQAUY84nAuIwBkuCHbdUN_BmBylxsz1TN0YBCgM2j
- Note that the subjects you will take should be consistent with your research plan (consult with your supervisor).
- Register only for this semester of the first year. Register for the remaining semesters during the designated registration period of the respective semester.
- **This time, you cannot register for the subjects that are offered for the whole year.**

- **Portfolio** (document no.3)
  - Fill up your research plan and subjects you will carry out through consulting with your supervisor.
  - Scan the pertinent pages of your portfolio and your class timetable (document no.3-1) as one PDF file after you get the supervisors' signatures on them. . Then, submit it via pandA:
    [2024 CE_UM] D1 (Enrolled in Oct.)_Portfolio
  - The submission deadline is on **Oct. 8 (Tue.) 17:00.**
  - Keep your original copy of the printed portfolio in a safe place until the end of the Doctor Course Program.

  [NOTE]
  1. Use MS Word template.
  2. Download the template of the portfolio from the Web site at the Department of Urban Management.
  3. Signatures of a supervisor and two sub-supervisors should be handwritten.
- Information on education affairs will be available through the Web site:
  http://www.um.t.kyoto-u.ac.jp/ja/oncampus/kyomu2024
- Japan Student Services Organization Scholarship (JASSO): Visit C-Cluster Office for details.
- Insurance programs for KU students (see following web page).
  https://www.kyoto-u.ac.jp/en/current/campus-life/health-management-and-insurance-1/insurance-programs-for-ku-students.html
- The Handling of Test Reports (document no.5)

(4) **Others** [Educational affairs, few minutes]

- Research Integrity and Ethics (common to the Graduate Schools of Kyoto University)
  - The documents are also available on the web page at the Department of Urban Management. Check the website and read them carefully.
- Information security measures

(5) **Safety Education**

- Read carefully the handouts about safety education.

September 27, 2024

Instructions on Registration 履修指導

Requirement for the completion of the course（修了要件）

1) To study at the doctoral course at least for three years*
   * Student with exceptionally excellent grades can shorten his/ her study period.
   修了には 3 年以上の在学期間が必要（期間短縮の制度あり）.
2) To obtain at least 10 credits, including 4 credits of Core subject, more than 2 credits of Major subject and more than 4 credits of ORT subject.
   Note: Students in Department of Civil and Earth Resources Eng. have to take "Integrated Seminar on Infrastructure Engineering A & B", and students in Department of Urban Management have to take "Integrated Seminar on Urban Management A & B".
   10 単位以上（コア科目 4 単位，Major 科目 2 単位以上，ORT 科目 4 単位以上を含む）を修得すること。都市社会工学総合セミナーA,B（都市社会工学専攻の学生），社会基盤工学総合セミナーA,B（社会基盤工学専攻の学生）は必修である.
3) To submit the doctoral thesis and passing the final examination on the thesis
   博士論文の審査及び最終試験に合格すること。

Study and Research Plan "Portfolio"（ポートフォリオと履修登録）

Go to the website of department of Urban management and download a file of the portfolio form (MS-Word). Fill out the form in pages 1 to 3 and then print it. Obtain supervisor and two sub-supervisor signatures in the signature space of printed portfolio. Scan the three pages of portfolio and your class timetable (document no.3-1) signed by supervisor and make one PDF file. Then, submit it via following PandA site:

[2024 CE_UM] D1 (Enrolled in Oct.)_Portfolio

You must submit it no later than **October 8 (Tue.) 17:00**. (See document no.3.)

まず都市社会工学専攻ホームページより word の書式をダウンロードする．ポートフォリオの 1-3 ページに必要事項を記入し，指導教員，副指導教員(2 名)の署名を取得した後，指導教員のサインを取得した履修登録科目選択リスト（資料 3-1）と一緒にスキャナー等で PDF にして **10/8 (火) 17 時**までに PandA から提出する（資料 3）.
⇒詳細は資料 3 に記載されているのでよく読むこと.

Others

1) Integrated Seminar on Infrastructure Engineering A & B and on Urban Management A & B
   （社会基盤工学総合セミナーA,B，都市社会工学総合セミナーA,B）(資料 4-1)
   "Integrated Seminar on Infrastructure Engineering A & B and Integrated Seminar on Urban Management A & B". (See document no.4-1)
2) ORT on Infrastructure Engineering and on Urban Management（社会基盤工学ORT & 都市社会工学ORT）
   (document no.4-2, 資料 4-2)

博士課程学生のポートフォリオの提出方法（2024 年 10 月入学者用）

How to Submit a Portfolio (for new doctoral course students in AY2024)

(1) 都市社会工学専攻の web から該当するポートフォリオ記入用ファイル(MS-Word)をダウンロードする.
Go to the website of the Department of Urban Management and download the portfolio form (MS-Word).
https://www.um.t.kyoto-u.ac.jp/ja/oncampus/kyomu2024

(2) ダウンロードしたポートフォリオ記入用ファイルの記入指定個所（＊下記参照）に必要事項を記入して印刷する.
Fill out the form on designated pages (see below＊) and then print it.

(3) 主指導教員と副指導教員（2 名）に印刷したポートフォリオを提出し，署名欄にサインをもらう．また，履修登録科目選択リストを印刷したものにも主指導教員のサインをもらう（別紙参照）.
Obtain the supervisor's and two sub-supervisors' signatures in the signature space of the printed portfolio. In addition, print out your prepared class timetable and get a supervisor's signature or seal on it.

(4) 印刷したポートフォリオの該当ページと履修登録科目選択リストをスキャナー等でまとめて一つの PDF ファイルにして PandA から提出する.
Scan the pertinent pages of your portfolio and your class timetable as one PDF file. Then, submit it via PandA.

ポートフォリオ提出先 PandA サイト Submit a portfolio via following PandA site

[2024 CE_UM] D1 (Enrolled in Oct.)_Portfolio

（注意１）ファイルサイズに気をつけること．100kb 程度が望ましい.
（注意２）ファイル名は，“学生番号（10 桁半角）+専攻名（CE or UM）+氏名.pdf”とすること
(例) 123456890_CE_山田太郎.pdf

Note 1: Be sure to have appropriate file size. Preferred file size is around 100kb.
Note 2: File name must be written as follows:
"Student ID number (half-size 10-degit number)＋student's department (CE or UM)+Student's name.pdf"
(Example) 1234567890_CE_TaroYamada.pdf

(5) 印刷したポートフォリオの原本については修了時まで各自大切に保管する.
Keep your original copy of the printed portfolio in a safe place until the end of the Doctor Course Program.

＊博士課程ポートフォリオの記入指定箇所

- **入学時→博士課程ポートフォリオ　1-3 ページ**

  提出期限：2024 年 10 月 8 日 17:00 厳守（記入指定個所ページを PDF 化して PandA から提出）

- 第 1 学年・第 1 セメスター終了時→博士課程ポートフォリオ　4 ページ
  提出期限：2025 年 4 月末予定（記入指定個所ページを PDF 化して PandA から提出）
- 第 1 学年・第 2 セメスター終了時→博士課程ポートフォリオ　5 ページ
  提出期限：2025 年 9 月末予定（記入指定個所ページを PDF 化して PandA から提出）
- 第 2 学年・第 3 セメスター終了時→博士課程ポートフォリオ　6 ページ
  提出期限：2026 年 4 月末予定（記入指定個所ページを PDF 化して PandA から提出）

- 第 2 学年・第 4 セメスター終了時→博士課程ポートフォリオ　7 ページ
  提出期限：2026 年 9 月末予定（記入指定個所ページを PDF 化して PandA から提出）
- 第 3 学年・第 5 セメスター終了時→博士課程ポートフォリオ　8 ページ
  提出期限：2027 年 4 月末予定（記入指定個所ページを PDF 化して PandA から提出）
- 第 3 学年・第 6 セメスター終了時→博士課程ポートフォリオ　9 ページ
  提出期限：2027 年 7 月頃予定（全てのページを PDF 化して PandA から提出）

* Below are pages that students must fill in for master's portfolio

- **at school entry: Fill in pages 1-3 of Academic Portfolio (for Doctor Course)**
  Deadline: by 17:00 on October 8, 2024 (must submit filled form in a PDF file via PandA.)
- after the end of the 1st semester in the 1st Year: Fill in page 4
  Schedule Deadline: late April 2025 (must submit filled form in a PDF file via PandA.)
- after the end of the 2nd semester in the 1st Year: Fill in page 5
  Schedule Deadline: late September 2025 (must submit filled form in a PDF file via PandA.)
- after the end of the 3rd semester in the 2nd Year: Fill in page 6
  Schedule Deadline: late April 2026 (must submit filled form in a PDF file via PandA.)
- after the end of the 4th semester in the 2nd Year: Fill in page 7
  Schedule Deadline: late September 2026 (must submit filled form in a PDF file via PandA.)
- after the end of the 5th semester in the 3rd Year: Fill in page 8
  Schedule Deadline: late April 2027 (must submit filled form in a PDF file via PandA.)
- after the end of the 6th semester in the 3rd Year: Fill in page 9
  Schedule Deadline: late July in 2027 (must submit all pages 1-9 in a PDF file via PandA.)

[October, 2024] Scan pertinent pages of portfolio and make one PDF file, then submit it via PandA. Keep your original copy of printed portfolio in a safe place until the end of Doctor Course Program.

京都大学工学研究科　社会基盤工学専攻・都市社会工学専攻
ポートフォリオ（博士後期課程）　2024 年 10 月入学者用

Academic Portfolio (for Doctor Course, Dept. of Civil and Earth Resources Eng. and Dept. of Urban Management)

			2024 年　10 月　入学 Entered October 2023
専攻名 Department	学生番号 Student ID	コース Course 高度･融合(分野) Advanced or Interdisciplinary(field)	氏　名　Name

所属分野 Laboratory	主指導教員 Supervisor	副指導教員 (1) Sub-supervisor 1	副指導教員 (2) Sub-supervisor 2

現住所　Current address

現		TEL(固定, fixed)	
住		TEL(携帯, cp)	
所		E-mail	

		TEL(固定, fixed)	
		TEL(携帯, cp)	
		E-mail	

		TEL(固定, fixed)	
		TEL(携帯, cp)	
		E-mail	

		TEL(固定, fixed)	
		TEL(携帯, cp)	
		E-mail	

帰省先　Hometown address

帰		TEL (1)	
省		FAX or TEL (2)	
先		E-mail	

		TEL (1)	
		FAX or TEL (2)	
		E-mail	

[October, 2024] Scan pertinent pages of portfolio and make one PDF file, then submit it via PandA. Keep your original copy of printed portfolio in a safe place until the end of Doctor Course Program.

学習目標 Your goals

所属専攻、コースにおいて修了に必要な単位 Credits required for completion
（大学院学習要覧を参考にして記入）

科目区分 Subject category	単位数 Credits 博士後期課程 Ph.D. Program
コア科目 Core	単位以上
Major 科目	単位以上
Minor 科目	単位以上
演習・ORT・インターンシップ科目	単位以上
その他の科目 Others	単位以上
合 計 Total	単位以上

資格・公的試験の目標 Your plans on acquisition of professional licenses/qualifications

資格等の名前 Category	取得予定年月 Planned date	実際の取得年月 Actual date	備考 Remark

大学院在籍中の勉学目標 Your study goals in Ph.D. program

その他の目標 Other goals

[October, 2024] Scan pertinent pages of portfolio and make one PDF file, then submit it via PandA. Keep your original copy of printed portfolio in a safe place until the end of Doctor Course Program.

テーラーメイド学習計画 Study/Research Plan

入学年月 Entered	コース Course 高度・融合(分野) Advanced or Interdisciplinary(Name)	氏　　名 Name
2024 年 10 月 October 2024		

一般科目 Course works（単位 credits）

年・セメスター Year/Semester		コア科目 Core	Major 科目	Minor 科目	演習 ORT 等	その他 Others
1年 1st year	1	単位	単位	単位	単位	単位
	科目名 Subject					
	2	単位	単位	単位	単位	単位
	科目名 Subject					
2年以降 2nd year or later		単位	単位	単位	単位	単位
	科目名 Subject					
合　計 Total		単位	単位	単位	単位	単位

研究論文（博士論文） Dissertation

論文予定題目 Title	
研究目的・計画 Purpose/Plan	

指導教員の署名欄 Approval from your supervisors (to be signed by your supervisors)

主指導教員 Supervisor	副指導教員 Sub-supervisor 1	副指導教員 Sub-supervisor 2

[April, 2025] Scan pertinent pages of portfolio and make one PDF file, then submit it via PandA. Keep your original copy of printed portfolio in a safe place until the end of Doctor Course Program.

学習の状況

Your progress and self-evaluation in the first semester (to be filled after the first semester)

履修科目名 Subject	科目区分 Subject category (Core, Major, Minor, ORT, Others)	単位 Credit	合否 Pass/fail

取得単位数 Credits acquired

	Core	Major	Minor	演習, ORT, Seminar 等	その他 Others	合計 total
今期 In this semester						単位
積算 Total						単位

研究論文(博士論文)及び演習 Dissertation study

研究題目 Title		
研究経過 Progress		
目標到達度と今後の課題 Goals and Challenges		
社会基盤工学 ORT / 都市社会工学 ORT 活動内容と獲得ポイント ORT points and activities		今期取得ポイント Points acquired in this semester 積算取得ポイント Total points

指導教員の署名欄 Approval from your supervisors (to be signed by your supervisors)

主指導教員 Supervisor	副指導教員 Sub-supervisor 1	副指導教員 Sub-supervisor 2

[September, 2025] Scan pertinent pages of portfolio and make one PDF file, then submit it via PandA. Keep your original copy of printed portfolio in a safe place until the end of Doctor Course Program.

学習の状況

Your progress and self-evaluation in the second semester (to be filled after the second semester)

履修科目名 Subject	科目区分 Subject category (Core, Major, Minor, ORT, Others)	単位 Credit	合否 Pass/fail

取得単位数 Credits acquired

	Core	Major	Minor	演習, ORT, Seminar 等	その他 Others	合計 total
今期 In this semester						単位
積算 Total						単位

研究論文(博士論文)及び演習 Dissertation study

研究題目 Title		
研究経過 Progress		
目標到達度と今後の課題 Goals and Challenges		
社会基盤工学 ORT / 都市社会工学 ORT 活動内容と獲得ポイント ORT points and activities		今期取得ポイント Points acquired in this semester 積算取得ポイント Total points

指導教員の署名欄 Approval from your supervisors (to be signed by your supervisors)

主指導教員 Supervisor	副指導教員 Sub-supervisor 1	副指導教員 Sub-supervisor 2

[April, 2026] Scan pertinent pages of portfolio and make one PDF file, then submit it via PandA. Keep your original copy of printed portfolio in a safe place until the end of Doctor Course Program.

学習の状況

Your progress and self-evaluation in the third semester (to be filled after the third semester)

履修科目名 Subject	科目区分 Subject category (Core, Major, Minor, ORT, Others)	単位 Credit	合否 Pass/fail

取得単位数 Credits acquired

	Core	Major	Minor	演習, ORT, Seminar 等	その他 Others	合計 total
今期 In this semester						単位
積算 Total						単位

研究論文(博士論文)及び演習 Dissertation study

研究題目 Title		
研究経過 Progress		
目標到達度と今後の課題 Goals and Challenges		
社会基盤工学 ORT / 都市社会工学 ORT 活動内容と獲得ポイント ORT points and activities		今期取得ポイント Points acquired in this semester 積算取得ポイント Total points

指導教員の署名欄 Approval from your supervisors (to be signed by your supervisors)

主指導教員 Supervisor	副指導教員 Sub-supervisor 1	副指導教員 Sub-supervisor 2

[September, 2026] Scan pertinent pages of portfolio and make one PDF file, then submit it via PandA. Keep your original copy of printed portfolio in a safe place until the end of Doctor Course Program

学習の状況

Your progress and self-evaluation in the fourth semester (to be filled after the forth semester)

履修科目名 Subject	科目区分 Subject category (Core, Major, Minor, ORT, Others)	単位 Credit	合否 Pass/fail

取得単位数 Credits acquired

	Core	Major	Minor	演習, ORT, Seminar 等	その他 Others	合計 total
今期 In this semester						単位
積算 Total						単位

研究論文(博士論文)及び演習 Dissertation study

研究題目 Title		
研究経過 Progress		
目標到達度と今後の課題 Goals and Challenges		
社会基盤工学 ORT / 都市社会工学 ORT 活動内容と獲得ポイント ORT points and activities		今期取得ポイント Points acquired in this semester 積算取得ポイント Total points

指導教員の署名欄 Approval from your supervisors (to be signed by your supervisors)

主指導教員 Supervisor	副指導教員 Sub-supervisor 1	副指導教員 Sub-supervisor 2

[April, 2027] Scan pertinent pages of portfolio and make one PDF file, then submit it via PandA. Keep your original copy of printed portfolio in a safe place until the end of Doctor Course Program

学習の状況

Your progress and self-evaluation in the fifth semester (to be filled after the fifth semester)

履修科目名 Subject	科目区分 Subject category (Core, Major, Minor, ORT, Others)	単位 Credit	合否 Pass/fail

取得単位数 Credits acquired

	Core	Major	Minor	演習, ORT, Seminar 等	その他 Others	合計 total
今期 In this semester						単位
積算 Total						単位

研究論文(博士論文)及び演習 Dissertation study

研究題目 Title		
研究経過 Progress		
目標到達度と今後の課題 Goals and Challenges		
社会基盤工学 ORT / 都市社会工学 ORT 活動内容と獲得ポイント ORT points and activities		今期取得ポイント Points acquired in this semester 積算取得ポイント Total points

指導教員の署名欄 Approval from your supervisors (to be signed by your supervisors)

主指導教員 Supervisor	副指導教員 Sub-supervisor 1	副指導教員 Sub-supervisor 2

学習の状況

Your progress and self-evaluation in the sixth (to be filled after the sixth semester)

履修科目名 Subject	科目区分 Subject category (Core, Major, Minor, ORT, Others)	単位 Credit	合否 Pass/fail

取得単位数 Credits acquired

	Core	Major	Minor	演習, ORT, Seminar 等	その他 Others	合計 total
今期 In this semester						単位
積算 Total						単位

研究論文(博士論文)及び演習 Dissertation study

研究題目 Title		
研究経過 Progress		
目標到達度と今後の課題 Goals and Challenges		
社会基盤工学 ORT / 都市社会工学 ORT 活動内容と獲得ポイント ORT points and activities		今期取得ポイント Points acquired in this semester 積算取得ポイント Total points

指導教員の署名欄 Approval from your supervisors (to be signed by your supervisors)

主指導教員 Supervisor	副指導教員 Sub-supervisor 1	副指導教員 Sub-supervisor 2

社会基盤工学専攻（高度工学コース（3年型））および都市社会工学専攻（高度工学コース（3年型））における標準的な履修計画（**ポートフォリオ３ページ**）

An example of standard study plan for students in Advanced Engineering Course Program

○社会基盤工学専攻（高度工学コース（3年型））(Dept. of Civil and Earth Resources Eng., 3 years)

一般科目 Course works（単位 credits）

年・セメスター Year/Semester		コア科目 Core	Major 科目	Minor 科目	演習 ORT 等	その他 Others
1年 1st year	1	2 単位	1 単位	単位	(4) 単位	単位
	科目名 Subject	社会基盤工学総合セミナーB	社会基盤工学総合実習 B		社会基盤工学 ORT	
	2	2 単位	1 単位	単位	(4) 単位	単位
	科目名 Subject	社会基盤工学総合セミナーA	社会基盤工学総合実習 A		社会基盤工学 ORT	
2年以降 2nd year or later		単位	単位	単位	(4) 単位	単位
	科目名 Subject				社会基盤工学 ORT	
合 計 Total		4 単位	2 単位	単位	4 単位	単位

○都市社会工学専攻（高度工学コース（3年型））(Dept. of Urban Management, 3 years)

一般科目 Course works（単位 credits）

年・セメスター Year/Semester		コア科目 Core	Major 科目	Minor 科目	演習 ORT 等	その他 Others
1年 1st year	1	2 単位	1 単位	単位	(4) 単位	単位
	科目名 Subject	都市社会工学総合セミナーB	都市社会工学総合実習 B		都市社会工学 ORT	
	2	2 単位	1 単位	単位	(4) 単位	単位
	科目名 Subject	都市社会工学総合セミナーA	都市社会工学総合実習 A		都市社会工学 ORT	
2年以降 2nd year or later		単位	単位	単位	(4) 単位	単位
	科目名 Subject				都市社会工学 ORT	
合 計 Total		4 単位	2 単位	単位	4 単位	単位

履修登録科目選択リスト

んの科目選択状況です。

指導教員サインまたは印

2017/04/20

学生番号

※候補科目設定だけでは，履修登録申込は完了していません。
履修登録期間(04/20(木) 00:00 ～ 04/24(月) 24:00）に，各曜時限1科目を決定し，履修登録してください。
なお，事前に申込が必要な科目は履修登録期間までに反映します。予備登録した科目が反映されていない場合は，窓口までお問い合せください。

曜時限		科目名	担当教員	区分	旧群	単位数	開講期	教室
月	1							
	2	(全共)日本語コミュニケーションの特徴	パリハワダナ　ルチラ	人社群	A群	2	前期	1共03
	3	(全共)英語ライティング－リスニングA EW57b	TEETER，Jennifer Louise	外国語群	C群	2	前期	4共14
	4	(全共)情報基礎［工学部］（電気電子工学科）	原田　博司	情報群		2	前期	総合研究9号館NSホール
	5							
火	1							
	2	(全共)熱力学	阪上　雅昭	自然群	B群	2	前期	共南11
	3	(全共)微分積分学（講義・演義）A	浅岡　正幸 他	自然群	B群	3	前期	共西32
	4	(全共)南アジアの政治と社会	中溝　和弥	人社群	A群	2	前期	教育院棟講義室31
	5	(工) 電気回路基礎論	久門　尚史			2	前期	電気総合館電総大
水	1							
	2	(全共)ラテン・アメリカ現代社会論	村上　勇介	人社群	A群	2	前期	共北26
	3	(全共)線形代数学（講義・演義）A	岸本　大祐	自然群	B群	3	前期	共西32
	4	(全共)物理学基礎論A	松田　和博	自然群	B群	2	前期	4共11
	5	(全共)自然現象と数学	佐藤　亨	自然群	B群	2	前期	総合研究9号館北棟1階ND2

曜時限		科目名	担当教員	区分	旧群	単位数	開講期	教室
木	1	(全共)スポーツ実習IA ［バドミントン］	杉本　寛恵	健康群	D群	1	前期	総合体育館
	2	(全共)中国語IA（演習） C1217	道坂　昭廣	外国語群	C群	2	前期	情報メ301(CALL)
	3	(全共)論理学I	安部　浩	人社群	A群	2	前期	共南11
	4	(全共)神経科学の基礎	水原　啓暁	自然群	B群	2	前期	4共30
	5							
金	1	(全共)英語リーディング ER57	横山　仁視	外国語群	C群	2	前期	共北35
	2	(全共)微分積分学（講義・演義）A (全共)線形代数学（講義・演義）A	浅岡　正幸 他 岸本　大祐	自然群 自然群	B群 B群	* *	前期 前期	共西32 共西32
	3	(全共)中国語IA（文法） C1117	前田　尚香	外国語群	C群	2	前期	共西11
	4							
	5							

●その他(集中講義等)

曜時限	科目名	担当教員	区分	旧群	単位数	開講期	教室

September 18, 2024

社会基盤工学総合セミナー**A**（2 単位）・B（2 単位）
都市社会工学総合セミナー**A**（2 単位）・B（2 単位）
について

Outline of

Integrated Seminar on Infrastructure Engineering A (Two Credits) & **B** (Two Credits)
Integrated Seminar on Urban Management A (Two Credits) & **B** (Two Credits)

1st semester：5th period (16:45-18:15) on Friday (Katsura Campus C1 Room 173)
2nd semester：5th period (16:45-18:15) on Tuesday (Katsura Campus C1 Room 173)

[Outlines of the Seminar]

このセミナーを受講する学生は，社会基盤工学・都市社会工学に関連する課題，各自の博士論文での研究内容や国際学会で発表した内容について，英語でプレゼンテーションする．発表者は，発表者の専門分野に精通していない出席者も理解できるようにわかりやすく説明することが求められる．なお，両セミナー（社会基盤工学および都市社会工学）は同時に開催される．

セミナーA と B は一体として運営し，1 回目の発表でセミナーA の 2 単位を認定し，2 回目の発表でセミナーB の 2 単位を認定する（ただし 10 月入学者等はこの A-B の順序でなくとも構わない）．なお，同じ内容を 2 回発表することは認められない．発表時間は 10 分，討議は 10 分程度を予定している．発表は対面で実施する予定である．セミナーには各回とも複数の教員の参加を予定している．

また，数ページ程度のレジュメ(英語)の準備が推奨される．発表スケジュールは，参加者の意向を踏まえて 10 月末までに決定し，各回 3～4 名程度の発表者を割り当てる．

上記の実施方法について変更がある場合，奈良准教授より連絡する。

Students joining these seminars are requested to make a presentation in English on subjects related to infrastructure engineering / urban management, their research works which will be a part of the doctoral thesis, or the contents that the student has already presented at an international conference. The presenters should explain their topics clearly so that even those not familiar with the field can understand. Both seminars, for Infrastructure Engineering and Urban Management, are held together.

The credit for the Seminar A (2 credits) is acknowledged for the first presentation, and that for the Seminar B (2 credits) is acknowledged for the second presentation (Exception: Students who enroll in October, etc. are not bound by this A-B order). Students must present different contents at each seminar. The time allocated for the presentation and the following discussion are ten minutes, respectively. Presentations will be conducted in-person. Several professors will join the seminar to facilitate the discussion.

Each speaker is recommended to prepare an English handout of a few pages about the presentation to enhance understanding and deepen the discussion. The schedule of the presentations will be determined by the end of October, considering the students' schedule. Three or four speakers will be assigned to each session.

If there are any changes in the above plan, you will be noticed by Assoc. Prof. Nara.

[Schedule]

Oct. 1-9：The students who want to join this seminar must contact the following professor by e-mail:

To: nara.yoshitaka.2n@kyoto-u.ac.jp (Assoc. Prof. Yoshitaka Nara)
Subject: **Infrastructure Engineering B** or **Urban Management B**

Your e-mail should include the following information:
(1) Your name, (2) Your e-mail address, (3) Lab name, (4) Supervisor's name,
(5) Tentative presentation title, and
(6) Any preferred and unavailable dates for your presentation (optional).

<u>The deadline is 5 PM on October 9</u>.

Oct. 10-17：The professor will respond to your e-mail for confirmation, inquire about the theme and date of your presentation, etc., and then finalize the entire schedule for the 2nd semester.

Nov. - Jan.：Presentation and discussion will be held.
After you give your presentation, submit the PDF of your presentation to PandA as soon as possible.

社会基盤工学総合セミナーB/都市社会工学総合セミナーB
プレゼンテーションと代替レポートに関する注意

【対面で実施します】

① プレゼンテーションについて

- 発表時間は 1 人 20 分(発表 10 分・ 質疑応答 10 分),各自の PC をプロジェクターに接続しパワーポイント又はその他の発表ツールで発表すること.
- 発表及び質疑応答は英語で行います.
- 発表の 2 日前までに，数枚程度のレジュメ（PDF ファイル）を用意して PandA に提出すること．発表資料から主要なスライドを抜粋した PDF でもよい.
- 発表終了後，速やかにパワーポイントの PDF ファイルを PandA に提出すること.

② 欠席した場合の代替レポートについて

60%以上の出席がない場合，不合格と判定されるので注意して下さい．可能な限り全ての回に出席することが強く推奨されます.

出席回数が足りない場合は，代替のレポート提出をもって出席と認めます（レポートの質が合格基準に達しない場合は出席とは認めないので注意してください）．1 回の欠席につき 1 つのレポート提出が必要です.

1）内容：欠席した回の 1 つ以上のプレゼン内容について，テーマを自由に設定し意見やコメントを述べてください．レポートには氏名，所属研究室に加えて，対象としたプレゼンの情報（題目・発表者名・発表日）を明記してください.

2）分量：図表を含めて A4 で 3～5 ページ（欠席 1 回あたり）

3）言語：英語，日本語のいずれか.

4）**提出締切：2025 年 1 月 24 日（金）正午**までに PDF ファイルを PandA へ提出.

5）その他：

- 参考文献や Web の情報を引用する場合はその出典を明示すること.
- 盗用・剽窃が明らかな場合は不正行為と見なすので注意すること.
- 発表済みのパワーポイントの PDF ファイルは PandA より閲覧できるようにします.

※ PandA 上では「都市社会工学総合セミナーB」のサイトを両セミナーで共有することとし，同サイトを社会基盤工学専攻の学生も使用します.

※ 上記の実施方法について変更がある場合，奈良准教授（nara.yoshitaka.2n@kyoto-u.ac.jp）より連絡があります.

Guideline for the Presentation and Supplementary Report in Integrated Seminar on Infrastructure Engineering B / Integrated Seminar on Urban Management B

This seminar will be conducted in-person.

I. Oral Presentation

1) Each presenter has 20 minutes: 10 minutes for presentation and 10 minutes for discussion. Presentations should be conducted using PowerPoint or other presentation software, connecting your own PC to the projector.
2) The presentation and discussion are conducted in English.
3) Upload a brief summary (in PDF format, typically consisting of a few pages) of your presentation to PandA at least two days prior to the presentation. A PDF file of selected key slides from the full presentation is also acceptable.
4) Upload the entire presentation file in PDF format to PandA immediately after you give your presentation.

II. Supplementary Report for Absence

You need to attend more than 60% of the total seminar sessions in order to receive the credits. You are strongly recommended to attend all the sessions. **If you don't meet the minimum requirement of attendance, you can submit supplementary reports for the sessions you missed (Reports without sufficient quality will not be accepted as a substitute for attendance).** One missed session requires one report.

1) Content

Describe your opinions and/or comments about one or more presentations from the missed session based on your own interests. The report should also include your name, affiliated laboratory and the details of the presentations you are discussing (title, presenter's name, date).

2) Length

3-5 pages in A4 format (for each one of missed sessions) including tables and figures.

3) Language

English or Japanese

4) Deadline

Upload your reports (in PDF format) to PandA by **12:00 PM on January 24 (Fri), 2025.**

5) Other Notes

- Include a list of references. If you refer to a website, the full URL should be included.
- If plagiarism or unauthorized appropriation is detected, the report will not be accepted.
- Presentation files will be available for review on PandA.

※ On PandA, both seminars will share the site for "Integrated Seminar on Urban Management B". Students from the Department of Infrastructure Engineering will also use this site for updates and file-sharing.
※ If there are any changes to these guidelines, you will be noticed by Assoc. Prof. Nara. (nara.yoshitaka.2n@kyoto-u.ac.jp)

社会基盤工学ORT (3 years 4 credits)

ORT on Infrastructure Engineering

都市社会工学ORT (3 years 4 credits)

ORT on Urban Management

予備検討願提出時までに計 20 ポイントを越えること．

Students are required to do the self-rating (refer to the point list below), and to get **more than 20 points in total before submission of the PhD dissertation**.
Students should fill out number of the points in the portfolio and submit it after every semester.

1ポイント： 研究室ゼミで発表（指導教員がポイントとして認めたものに限る），土木学会年次講演会などで口頭発表
1～5ポイント： 学協会主催の講習会などに出席.
3ポイント： 国際会議での英語の発表（論文が査読ありの場合は下記に準じる.）
5～10ポイント： 査読つき論文（土木学会論文集，ASCE Journalなど）に第一著者あるいは共著者として掲載またはアクセプト（ポイント数は論文への貢献度や掲載誌に応じて、指導教員が決める.）

1 point: Presentation at laboratory seminar (only if only if supervisor agrees) / Oral presentation in the annual meeting in the Society of Civil Engineers
1-5 points: Attending the lecture held by Academic Society (Certification is required)
3 points: Presentation in English in an international conference
5-10 points: Fist author or coauthor of published and/or accepted journal papers (e.g., for Journal of Society of Civil Engineers, ASCE Journal, etc.) (Number of points is determined by your supervisor depending on level of journal and/or your contribution.)

レポート試験の取り扱いについて

近年のインターネット技術の普及により、従来以上に、全世界のデータ（論文・報告書を含む）に容易にアクセスすることが可能となってきている。従来、定期試験におけるレポート試験において、上記のような資料を用いて答案を作成した際の取り扱いについては明確な規定がなされていなかった。

そこで、今後の取り扱いを下記のように行うので、各学生においては十分留意すること。

１．主旨

レポート試験における参考資料の取り扱いの明確化。不正行為の防止。

２．注意事項

インターネット等から入手した資料を参考にレポート試験の答案を作成する場合には、下記の注意事項に留意すること。

① レポート試験とは、教員より与えられた課題に対して、自己の考えるところを文章・図表を用いて解答するものであり、他人の著作物の単なる引用のみで構成されるものは答案とは認められない

② 自己の考えを記述するにあたり、各種の既存の情報を参考にすることは可能であるが、既存情報としてインターネット等から入手した資料（論文・報告書・図表・データなど）を引用（参考資料として、その一部を記載）することは、レポート課題に真に必要なものに留める

③ 必要により引用した場合には、参考文献として出典を本文中および末尾に明記する

④ 参考文献としての明記がないもの、あるいは明記した場合においても原文とほぼ同等の文章・図表のみで構成され、自己の考えなどの記述が全く見られないものは、故意に行ったか否かにかかわらず不正行為（工学部試験内規第 16 条）とみなされることがある

以上

The Handling of Test Reports

Due to the improvements of internet technologies in recent years, global data (including theses and reports) are easily accessed. In the past there were no regulations on how to handle test reports.

The regulations on handling test reports from now on are as follows:

1. Objective
   -Clarification on handling test reports
   -Prevention of plagiarism.

2. Warning
   -If you have written a report with references with internet materials, be aware of the directions below.

   ① Reports are given tasks from teachers and are to be written in your own words and thoughts. Reports written by copying someone else's words are unaccepted.
   ② Referring to internet materials to prove your point is acceptable, but make sure the materials relate to your report.
   ③ If you have quoted a reference, cite the source at the end of the report.
   ④ If you have used someone else's words or ideas and did not cite them, the report will be accepted as plagiarism (Laws of Engineering Examination Article 16).

Appendix:

Guidelines for Graduate School and Subject List

[Advanced Engineering Course Program]

3.1 Department of Civil and Earth Resources Engineering

(1) Educational Policy

1) Necessity of Research and Education in the Department

Our department aims to create a safe, secure, vital and sustainable society harmonizing with the environment for the living space for all living things. Our challenge is a necessary technological innovation to establish new industries and civilizations supported by social infrastructures as well as the promotion of the science technology for integrative establishment of social infrastructure (architecture) and sustainable utilization of underground resources.

2) Purpose of Education

Our purpose of education is to cultivate engineers and researchers with basic skills of engineering to deeply understand environmental problems and energy issues on a global scale and to develop new technologies from international and multiple viewpoints.

3) Goal of Education

Our goal is to foster deep basic skills of engineering through advanced and cutting-edge research or applied technology research to deal with various problems in the real society and nurture applied skills to solve problems in the real society and advanced technologies and applied skills on internationally-accepted level, setting the theme toward the following:1) Upgrading of state-of-the-art technology based on science engineering 2) Elucidation of natural disaster mechanisms and improvements on disaster mitigation technologies 3) Integrative social infrastructure architecture and improvements on its management technology, 4) Utilization of underground energy resources in a developmental and sustainable society and 5) Contribution to the solution of various problems for realizing low carbon societies.

(2) Credits required for Master degree

Subject Category	Number of Credit		
	5-year course		3-year course
	Master	Doctor	Doctor
Core subject	2 credits or more	6 credits or more	4 credits
Major subject	10 credits or more	12 credits or more	2 credits or more
Minor subject	Not especially designated	Not especially designated	Not especially designated
ORT subject	8 credits or more	12 credits or more	4 credits or more
Other subject	Under the approval of supervisors		
Total	30 credits or more	40 credits or more	10 credits or more

[NOTE]

1) Total 30 credits to complete the Master course must be included in total 40 credits to complete the Doctoral 5-year course. To continue Doctoral course in 5-year course, you must complete Master course.
2) To complete the program, you must acquire the number of the credits designated for each subject category and the total number of credits listed above.
3) Aside from designated credits above, additional requirements for Major subjects in Master course have been set depending on the educational program that you have selected. For the details, see Note (5) below.

(3) Registration Model

To be explained based on the material at the Guidance in April.

[Note for 5-year Course]

(1) For the details (syllabus) of each subject, please refer to KULASIS. Students can log in to KULASIS from https://student.iimc.kyoto-u.ac.jp
(2) The subjects with white circles(○) in the column of the Registration type are obtainable.
(3) The subjects without circles in the Subject category are regarded as "Minor subjects".
(4) "Exercise on Project Planning" and "Seminars on Infrastructure Engineering A/B" are compulsory in Master course. Students of International Course will be lectured in English and these subjects will be regarded as "English Subject (◎)".
(5) For Major subjects in Master course, you must satisfy the requirements for one of the 6 educational programs below. For the selection of your educational program, obtain your supervisor's approval in advance. Students of International Course must select "International Education Program". In principle, students are not allowed to change the educational program that has been chosen at the time of admission.

1. **Structural Division Education Program:**
   - Must take all "Continuum Mechanics", "Structural Stability", "Material and Structural System & Management", "Earthquake Engineering/Lifeline Engineering", and "Structural Engineering for Civil Infrastructure".

2. **Hydrologic Division Education Program:**
   - Must take all "Viscous Fluid Dynamics", "Hydrologic Design and Management", "Multiphase Flow Dynamics", and "Sediment Hydraulics".
   - Must take at least 3 subjects among, "Hydrology", "Free Surface Flow Dynamics", "Hydro-meteorologically based Disaster Prevention", "Water Resources Systems", "River Basin Management of Flood and Sediment", "Coastal and Urban Water Disasters Engineering", "Disaster Mitigation for Sustainable Basin Environment", "Computational Fluid Dynamics", "Hydraulic Engineering for Infrastructure Development and Management", "Applied Hydrology", "Case Studies Harmonizing Disaster Management and Environment Conservation" and "Integrated Disasters and Resources Management in Watersheds".

3. **Geomechanics Division Education Program:**
   - Must take at least 5 subjects among "Geomechanics", "Computational Geotechnics", "Construction of Geotechnical Infrastructures", "Fundamental Geofront Engineering", "Environmental Geotechnics" and "Disaster Prevention through Geotechnics".

4. **Planning Division Education Program:**
   - Must take at least 2 subjects among "Public Finance", "Urban Environmental Policy", "Quantitative Methods for Behavioral Analysis", "Intelligent Transportation Systems", "Remote Sensing and Geographic Information System", "Civic and Landscape Design", "Risk Management", "Disaster Information", "Disaster Risk Management", and "Environmental Design Research".

5. **Earth Resources and Energy Division Education Program:**
   - Must take at least 3 subjects among "Resources Development Systems", "Applied Mathematics in Civil & Earth Resources Engineering", "Environmental Geosphere Engineering", "Applied Elasticity for Rock Mechanics", "Fundamental Theories in Geophysical Exploration", "Rock Stress and Physical Properties", "Lecture on Exploration Geophysics", "Measurement in the Earth's Crust Environment", and "Energy System Management".

6. **International Education Program:**
   - Must complete 10 credits or more from English-lectured classes provided on the Subject List. Consult with your supervisor which classes to take.

(6) You must acquire 20 credits or more in total from the subjects listed in the Subject List,

among the 30 credits of completion requirement for Master course. Students of International Course must take the 20 credits (including “Exercise on Project Planning” and “Seminars on Infrastructure Engineering A/B”) in English. The other 10 credits must be English classes from the Subject List or English classes equivalent to the ones on (7) below. Some of the programs offered as “Practice in Infrastructure Engineering” are provided in English. If students attend those programs as “Practice in Infrastructure Engineering”, it can be regarded as “English Subjects (◎)”.

(7) For the subjects not listed on the Subject List, you can select from Common Subjects of Graduate School of Engineering and/or the subjects of other Departments/Graduate School which your supervisor approves in Master course. For the students who passed the Joint Degree System of the Graduate School of Management, apply (8) below. However, the credits will be regarded as “Minor subjects” in any of these cases. As for the international students, non-credited Japanese Language classes are available.

(8) If the students who passed the Joint Degree System of the Graduate School of Management have completed the subjects offered by the Graduate School of Management, credits are to be admitted as the credits of the subjects of the Department of Civil and Earth Resources Engineering under the approval of the supervisor. However, the number of obtainable credits must not exceed 10 credits.

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

(10) “Integrated Seminars on Infrastructure Engineering A/B” are compulsory in Doctoral course.

(11) Your course registration plan at the time of admission and change of the plan during your study must be approved at the Guidance Committee consisting of one supervisor and 2 sub-supervisors.

(12) The subject of “Geo-Risk Management” is not provided in AY2024, while this was provided for the students enrolled before AY2019.

(13) The study areas below have also been set in the Department of Civil and Earth Resources Engineering. If you have completed the subjects designated for each study area and applied for the completion of the subject, you will obtain a certificate to prove that you have completed that study area.

- Study Area of Structural Design Engineer/Researcher Training
- Study Area of Hydraulic/Hydrologic Design Engineer/Researcher Training
- Study Area of Geo Design Engineer/Researcher Training
- Study Area of Urban Design Engineer/Researcher Training
- Study Area of Earth Resources and Energy Engineer/Researcher Training

[Note for 3-year Course]

(1) For the details (syllabus) of each subject, please refer to KULASIS. Students can log in to KULASIS from https://student.iimc.kyoto-u.ac.jp

(2) The subjects with white circles(○) in the column of the Registration type are obtainable.

(3) The subjects without circles in the Subject category are regarded as “Minor subjects”.

(4) “Integrated Seminars on Infrastructure Engineering A/B” are compulsory.

(5) For the subjects not listed on the Subject List, you can select from Common Subjects of Graduate School of Engineering (excluding Japanese course subjects) and/or the subjects of other Departments/Graduate School which your supervisor approves.

(6) Your course registration plan at the time of admission and change of the plan during your study must be approved at the Guidance Committee consisting of one supervisor and 2 sub-supervisors.

[Advanced Engineering Course Program]

3.2 Department of Urban Management

(1) Educational Policy

1) Necessity of Research and Education in the Department

To realize sustainable and internationally competitive urban systems which can assure a high quality of life, comprehensive management of urban system is indispensable. Our department, subject to preserve global and regional environment, strives to establish theories and systematic technologies for a comprehensive management of urban systems from interdisciplinary points of view integrating social science and humanity, consolidating engineering technology such as management, advanced information, social infrastructure and energy.

2) Purpose of Education

We aim to educate researchers and engineers with high capabilities of problem solutions and with advanced and comprehensive accomplishments based on engineering skills such as management technology, including social science and humanity.

3) Goal of Education

Our goal is to foster comprehensive management skills of urban system through practical and interdisciplinary research and acquire comprehensive ability to be an international leader, setting the theme toward the following: 1)social infrastructure upgrading through innovation of urban information communication technology, 2) disaster risk management in advanced information society, 3) comprehensive efficient urban system management, 4) social infrastructure maintenance for internationalization, and 5) urban management based on limited energy resource theory.

(2) Credits required for Master degree

Subject Category	Number of Credit		
	5-year course		3-year course
	Master	Doctor	Doctor
Core subject	4 credits or more	8 credits or more	4 credits
Major subject	4 credits or more	6 credits or more	2 credits or more
Minor subject	Not especially designated	Not especially designated	Not especially designated
ORT subject	8 credits or more	12 credits or more	4 credits or more
Other subject	Under the approval of supervisors		
Total	30 credits or more	40 credits or more	10 credits or more

[NOTE]

1) Total 30 credits to complete the Master course must be included in total 40 credits to complete the Doctoral 5-year course. To continue Doctoral course in 5-year course, you must complete Master course.
2) To complete the program, you must acquire the number of the credits designated for each subject category and the total number of credits listed above.
3) Aside from designated credits above, additional requirements for Major subjects in Master course have been set depending on the educational program that you have selected. For the details, see Note (5) below.

(3) Registration Model

To be explained based on the material at the Guidance in April.

[Note for 5-year Course]

(1) For the details (syllabus) of each subject, please refer to KULASIS. Students can log in to KULASIS from https://student.iimc.kyoto-u.ac.jp
(2) The subjects with white circles(○) in the column of the Registration type are obtainable.
(3) The subjects without circles in the Subject category are regarded as "Minor subjects".
(4) "Information Technology for Urban Society" and "Seminars on Urban Management A/B" are compulsory in Master course. "Exercise on Project Planning" and "Capstone Project" are both elective compulsory subjects; you must select either of them.
※ International students, who do not speak Japanese, must take one of the English-lectured classes (subjects with ◎) provided on the Subject List as Core subject instead of "Information Technology for Urban Society" under supervisor's approval.
※ As for "Seminar on Urban Management A/B", "Exercise on Project Planning" and "Capstone Project", students of International Course will be lectured in English and these subjects will be regarded as "English Subject (◎)".
(5) For Major subjects in Master course, you must satisfy the requirements for one of the 6 educational programs below. For the selection of your educational program, obtain your supervisor's approval in advance. Students of International Course must select "International Education Program in Urban and Regional Development". In principle, students are not allowed to change the educational program that has been chosen at the time of admission.

1. **Structural Division Education Program:**
   - Must take all "Continuum Mechanics", "Structural Stability", "Material and Structural System & Management", "Earthquake Engineering/Lifeline Engineering", and "Structural Engineering for Civil Infrastructure".

2. **Hydrologic Division Education Program:**
   - Must take all "Viscous Fluid Dynamics", "Hydrologic Design and Management", "Multiphase Flow Dynamics", and "Sediment Hydraulics".
   - Must take at least 3 subjects among, "Hydrology" "Free Surface Flow Dynamics", "Hydro-meteorologically based Disaster Prevention", "Water Resources Systems", "River Basin Management of Flood and Sediment", "Coastal and Urban Water Disasters Engineering", "Disaster Mitigation for Sustainable Basin Environment", "Computational Fluid Dynamics", "Hydraulic Engineering for Infrastructure Development and Management", "Applied Hydrology", "Case Studies Harmonizing Disaster Management and Environment Conservation" and "Integrated Disasters and Resources Management in Watersheds".

3. **Geomechanics Division Education Program:**
   - Must take at least 5 subjects among "Geomechanics", "Computational Geotechnics", "Construction of Geotechnical Infrastructures", "Fundamental Geofront Engineering", "Environmental Geotechnics", and "Disaster Prevention through Geotechnics".

4. **Planning Division Education Program:**
   - Must take at least 2 subjects among "Public Finance", "Urban Environmental Policy", "Quantitative Methods for Behavioral Analysis", "Intelligent Transportation Systems", Remote Sensing and Geographic Information System", "Civic and Landscape Design", "Risk Management", "Disaster Information", "Disaster Risk Management", and "Environmental Design Research".

5. **Earth Resources and Energy Division Education Program:**
   - Must take at least 3 subjects among "Resources Development Systems", "Applied Mathematics in Civil & Earth Resources Engineering", "Environmental Geosphere Engineering", "Applied Elasticity for Rock Mechanics", "Fundamental Theories in

Geophysical Exploration", "Rock Stress and Physical Properties", "Lecture on Exploration Geophysics", "Measurement in the Earth's Crust Environment", and "Energy System Management".

6. International Education Program:

- Must complete more than 4 credits from English-lectured classes (subjects with ◎) provided in the Subject List except for one subject as Core subject above-mentioned (4). Consult with your supervisor and decide which classes to take.

(6) You must acquire 20 credits or more in total from the subjects listed in the Subject List, among the 30 credits of completion requirement for Master course. Students of International Course must take the 20 credits (including "Seminar on Urban Management A/B", "Exercise on Project Planning" and "Capstone Project") in English. The other 10 credits must be English classes from the Subject List or English classes equivalent to the ones on (7) below. Some of the programs offered as "Practice in Urban Management" are provided in English. If students attend those programs as "Practice in Urban Management", it can be regarded as "English Subjects (◎)".

(7) For the subjects not listed on the Subject List, you can select from Common Subjects of Graduate School of Engineering and/or the subjects of other Departments/Graduate School which your supervisor approves in Master course. For the students who passed the Joint Degree System of the Graduate School of Management, apply (8) below. However, the credits will be regarded as "Minor subjects" in any of these cases. As for the international students, non-credited Japanese Language classes are available.

(8) If the students who passed the Joint Degree System of the Graduate School of Management have completed the subjects offered by the Graduate School of Management, credits are to be admitted as the credits of the subjects of the Department of Urban Management under the approval of the supervisor. However, the number of obtainable credits must not exceed 10 credits.

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

(10) Both "Integrated Seminar on Urban Management A and B" are compulsory in Doctoral course.

(11) Your course registration plan at the time of admission and change of the plan during your study must be approved at the Guidance Committee consisting of one supervisor and 2 sub-supervisors.

(12) The subject of "Geo-Risk Management" is not provided in AY2024, while this was provided for the students enrolled before AY2019.

(13) The study areas below have also been set in the Department of Urban Management. If you have completed the subjects designated for each course and applied for the completion of the subject, you will obtain a certificate to prove that you have completed that course.

- Study Area of Public Policy Planning/Management
- Study Area of International Project Management (Infrastructure/Energy Development)
- Study Area of Urban Water/Geo Environment Management
- Study Area of Seismic Design/Management
- Study Area of Urban Transportation Policy (Urban Planning, Urban Transport Policy)
- Study Area of Earth Resources and Energy Engineer/Researcher Training

[Note for 3-year Course]

(1) For the details (syllabus) of each subject, please refer to KULASIS. Students can log in to KULASIS from https://student.iimc.kyoto-u.ac.jp

(2) The subjects with white circles(○) in the column of the Registration type are obtainable.

(3) The subjects without circles in the Subject category are regarded as “Minor subjects”.
(4) If you take “Information Technology for Urban Society”, the credit will be added as “Minor” subject
(5) Both “Integrated Seminar on Urban Management A and B” are compulsory.
(6) For the subjects not listed in the Subject List, you can select from Common Subjects of Graduate School of Engineering (excluding Japanese course subjects) and/or the subjects of other Departments/Graduate School which your supervisor approves.
(7) Your course registration planning at the time of admission and change of the plan during your study will be approved at the Guidance Committee consisting of one supervisor and 2 sub-supervisors.

Subject List (Advanced Engineering Course Program of the Department of Civil and Earth Resources Engineering)

Subject code	Subject	Instructor	Number of hours per week		Credit	Subject category			Registration type		
									5 years		3 years
			1st semester	2nd semester		Core	Major	ORT	Master	Doctor	Doctor
10F251	▼Exercise on Project Planning （自主企画プロジェクト）	Related instructors	2	2	2	○			Compulsory		
10U051	◎Integrated Seminar on Infrastracture Engineering A （社会基盤工学総合セミナーA）	Related instructors	2		2	○				Compulsory	Compulsory
10U052	◎Integrated Seminar on Infrastracture Engineering B （社会基盤工学総合セミナーB）	Related instructors		2	2	○				Compulsory	Compulsory
10U055	Seminar on Infrastructure Engineering A （社会基盤工学セミナーA）	Related instructors	(4)	(4)	4			○	Compulsory		
10U056	Seminar on Infrastructure Engineering B （社会基盤工学セミナーB）	Related instructors	(4)	(4)	4			○	Compulsory		
10U059	Internship on Infrastructure Engineering （社会基盤工学インターンシップ）	Related instructors	Intensive		4			○	○	○	○
10F063	Practice in Infrastructure Engineering （社会基盤工学実習）	Related instructors		2	2			○	○		
10U060	▼ORT on Infrastructure Engineering （社会基盤工学ORT）	Related instructors	(4)	(4)	4			○		○	○
10U064	▼Practice in Advanced Infrastructure Engineering A （社会基盤工学総合実習A）	Related instructors	(2)		1		○			○	○
10U065	▼Practice in Advanced Infrastructure Engineering B （社会基盤工学総合実習B）	Related instructors		(2)	1		○			○	○
10F003	Continuum Mechanics （連続体力学）	Sugiura, Yagi	2		2		○		○	○	○
10F067	◎Structural Stability （構造安定論）	Sugiura, Kitane	2		2		○		○	○	○
10F068	◎Material and Structural System & Management （材料・構造マネジメント論）	Yamamoto, An, Takaya	2		2		○		○	○	○
10F261	◎Earthquake Engineering/Lifeline Engineering （地震・ライフライン工学）	Igarashi (DPRI), Furukawa	2		2		○		○	○	○
10W001	◎Structural Engineering for Civil Infrastructure （社会基盤構造工学）	Related instructors		2	2		○		○	○	○
10F009	◎Structural Design （構造デザイン）	Takahashi, Kitane		2	2		○		○	○	○
10F010	◎Bridge Engineering （橋梁工学）	Sugiura, Yagi, Kitane, Matsumiya, Noguchi, Matsumoto		2	2		○		○	○	○
10A019	Concrete Structural Engineering （コンクリート構造工学）	Takahashi, Yamamoto, Takaya, Nakamura (Part-time Lecturer)		2	2		○		○	○	○
10F227	Structural Dynamics （構造ダイナミクス）	Takahashi, Igarashi (DPRI)	2		2		○		○	○	○
10F263	Seismic Engineering Exercise （サイスミックシミュレーション）	Takahashi, Hiroyuki Goto (DPRI)		2	2		○		○	○	○
10F415	Ecomaterial Design （環境材料設計学）	Yamamoto, Takaya, Sato (Part-time Lecturer)	2		2		○		○	○	○
10F089	Infrastructure Safety Engineering （社会基盤安全工学）	Ohta, Yasuda		2	2		○		○	○	○
10A216	◎○Hydrology （水文学）	Tachikawa, Ichikawa, Yorozu		2	2		○		○	○	○
10A040	Sediment Hydraulics （流砂水理学）	Hitoshi Gotoh, Harada	2		2		○		○	○	○
10F464	Hydrologic Design and Management （水工計画学）	Tachikawa, Ichikawa, Tomohiro Tanaka	2		2		○		○	○	○
10F270	Viscous Fluid Dynamics （粘性流体力学）	Hitoshi Gotoh, Sanjou (DPRI), Ikari, Shimizu	2		2		○		○	○	○
10F271	Multiphase Flow Dynamics （混相流体力学）	Harada, Onda, Ikari, Tasaki		2	2		○		○	○	○
10F272	Free Surface Flow Dynamics （自由表面流れの力学）	Harada, Onda, Tasaki	2		2		○		○	○	○
10F267	□Hydro-meteorologically based Disaster Prevention （水文気象防災学）	Nakakita (DPRI), Sayama (DPRI), Yamaguchi (DPRI), Naka (DPRI)	2		2		○		○	○	○
10A222	□Water Resources Systems （水資源システム論）	Hori (DPRI), Kenji Tanaka (DPRI), Yorozu (DPRI)	2		2		○		○	○	○
10F077	□River Basin Management of Flood and Sediment （流域治水砂防学）	Sumi (DPRI), Kawaike (DPRI), Takebayashi (DPRI)	2		2		○		○	○	○
10F269	○Coastal and Urban Water Disasters Engineering （沿岸・都市防災工学）	Igarashi (DPRI), Mori (DPRI), Yoneyama (DPRI), Shimura (DPRI)	2		2		○		○	○	○
10F466	○Disaster Mitigation for Sustainable Basin Environment （流域環境防災学）	Sanjou (DPRI), Nakatani (DPRI), Baba (DPRI), Kobayashi (DPRI)	2		2		○		○	○	○
10F011	◎Computational Fluid Dynamics （数値流体力学）	Hitoshi Gotoh, Khayyer, Ikari, Shimizu		2	2		○		○	○	○
10F065	◎Hydraulic Engineering for Infrastructure Development and Management（水域社会基盤学）	Hitoshi Gotoh, Tachikawa, Ichikawa, Harada, Khayyer, Sunmin Kim, Onda, Ikari		2	2		○		○	○	○
10F100	◎Applied Hydrology （応用水文学）	Hori (DPRI), Sumi (DPRI), Kenji Tanaka (DPRI), Kantoush (DPRI), Yorozu (DPRI), Kobayashi (DPRI)	2		2		○		○	○	○
10F103	◎Case Studies Harmonizing Disaster Management and Environment Conservation（環境防災生存科学）	Nakakita (DPRI), Mori (DPRI), Kawaike (DPRI), Sayama (DPRI), Yamaguchi (DPRI), Shimura (DPRI), Lahournat (DPRI)	2		2		○		○	○	○
10F106	◎Integrated Disasters and Resources Management in Watersheds （流域管理工学）	Yoneyama (DPRI), Kawaike (DPRI), Sanjou (DPRI), Nakatani (DPRI), Takebayashi (DPRI), Baba (DPRI)		2	2		○		○	○	○
10F025	Geomechanics （地盤力学）	Higo, Iwai, Hashimoto	2		2		○		○	○	○
10K016	◎Computational Geotechnics （計算地盤工学）	Sawamura, Hashimoto, Ueda (DPRI)		2	2		○		○	○	○
10F241	Construction of Geotechnical Infrastructures （ジオコンストラクション）	Kishida, Higo		2	2		○		○	○	○
10F405	◎Fundamental Geofront Engineering （ジオフロント工学原論）	Higo, Yasuhara, Iwai	2		2		○		○	○	○
10A055	Environmental Geotechnics （環境地盤工学）	Katsumi (GSGES), Takai (GSGES)	2		2		○		○	○	○

Subject List (Advanced Engineering Course Program of the Department of Civil and Earth Resources Engineering)

Subject code	Subject	Instructor	Number of hours per week		Credit	Subject category			Registration type		
									5 years		3 years
			1st semester	2nd semester		Core	Major	ORT	Master	Doctor	Doctor
10F109	◎Disaster Prevention through Geotechnics （地盤防災工学）	Uzuoka (DPRI), Ueda (DPRI)		2	2		○		○	○	○
10F203	◎○Public Finance （公共財政論）	Onishi	2		2		○		○	○	○
10F207	Urban Environmental Policy （都市社会環境論）	Uno, Matsunaka	2		2		○		○	○	○
10F219	Quantitative Methods for Behavioral Analysis （人間行動学）	Fujii, Kawabata	2		2		○		○	○	○
10F215	Intelligent Transportation Systems （交通情報工学）	Uno, Yamada, Nakao		2	2		○		○	○	○
10A805	Remote Sensing and Geographic Information System （リモートセンシングと地理情報システム）	Uno, Susaki, Oba	2		2		○		○	○	○
10A808	Civic and Landscape Design （景観デザイン論）	Kawasaki, Yamaguchi, Yagi (Part-time Lecturer), Tanigawa	2		2		○		○	○	○
10F223	◎Risk Management （リスクマネジメント論）	Cruz (DPRI), Matsuda (DPRI)		2	2		○		○	○	○
10X333	◎Disaster Risk Management （災害リスク管理論）	Tatano (DPRI), Samaddar (DPRI)	2		2		○		○	○	○
693287	★Disaster Information （防災情報特論）	Yamori (DPRI), Hatayama (DPRI), Hiroi (DPRI)	2		2		○		○	○	○
733707	★Environmental Design Research （環境デザイン論）	Kobayashi (GSGES), Ochiai (GSGES)		2	2		○		○	○	○
10A402	Resources Development Systems （資源開発システム工学）	Murata, Kashiwaya		2	2		○		○	○	○
10F053	Applied Mathematics in Civil & Earth Resources Engineering（応用数理解析）	Fukuyama, Saito	2		2		○		○	○	○
10A405	Environmental Geosphere Engineering （地殻環境工学）	Koike, Kashiwaya	2		2		○		○	○	○
10F071	Applied Elasticity for Rock Mechanics （応用弾性学）	Fukuyama, Murata		2	2		○		○	○	○
10F073	Fundamental Theories in Geophysical Exploration （物理探査の基礎数理）	Takekawa, Xu	2		2		○		○	○	○
10F078	Rock Stress and Physical Properties （岩盤応力と地殻物性）	Lin, Ishitsuka, Yamamoto (Part-time Lecturer)		2	2		○		○	○	○
10A420	◎○Lecture on Exploration Geophysics （探査工学特論）	Takekawa, Xu		2	2		○		○	○	○
10F085	◎Measurement in the Earth's Crust Environment （地殻環境計測）	Fukuyama, Nara, Yamamoto (Part-time lecturer)	2		2		○		○	○	○
10F088	◎□Energy System Management （地球資源学）	Koike, Kashiwaya		2	2		○		○	○	○
10X311	◎Urban Infrastructure Management （都市基盤マネジメント論）	Ichikawa, Onishi, Takahashi, Tachikawa, Higo	2		2		○		○	○	○
10F113	◎Global Survivability Studies （グローバル生存学）	Tachikawa, Fujii, Cruz (DPRI), Sayama (DPRI), Yamashiki (GSAIS), Mclellan (Graduate School of Energy Science)	2		2		○		○	○	○
693291	★Emergency Management （危機管理特論）	Hatayama (DPRI), Tatano (DPRI), Samaddar (DPRI), Hiroi (DPRI)		2	2		○		○	○	○
10F201	Information Technology for Urban Society (都市社会情報論)	Related instructors	2		2				○	○	○
756790	★Business Development in Energy （エネルギービジネス展開論）	Kobayashi (GSM), Nakayama		2	2				○	○	○
10i049	#◎Project Management in Engineering （エンジニアリングプロジェクトマネジメント）	Shojiki, Lintuluoto, and related instructors	2		2				○	○	○
10i050	#◎Exercise on Project Management in Engineering （エンジニアリングプロジェクトマネジメント演習）	Shojiki, Lintuluoto, and related instructors		Intensive	2				○	○	○
10F299	▼Master's Thesis （研究論文（修士））							○	Compulsory		
	Doctor's Thesis （研究論文（博士））							○		Compulsory	Compulsory

Legend
◎English Class
▼Japanese and English
○Biennial (Held this year)
□Biennial (Held next year)
※Subject of other Department
★Subject of other Graduate School
#Common Subjects of Graduate School of Engineering

Subject List (Advanced Engineering Course Program of the Department of Urban Management)

Subject code	Subject	Instructor	Number of hours per week		Credit	Subject category			Registration type		
									5 years		3 years
			1st semester	2nd semester		Core	Major	ORT	Master	Doctor	Doctor
10F201	Information Technology for Urban Society (都市社会情報論)	Related instructors	2		2	○			Compulsory		Minor
10F251	▼Exercise on Project Planning (自主企画プロジェクト)	Related instructors	2	2	2	○			Elective Compulsory		
10F253	▼Capstone Project (キャップストーンプロジェクト)	Related instructors	2	2	2	○			Elective Compulsory		
10U201	◎Integrated Seminar on Urban Management A (都市社会工学総合セミナーA)	Related instructors	2		2	○				Compulsory	Compulsory
10U203	◎Integrated Seminar on Urban Management B (都市社会工学総合セミナーB)	Related instructors		2	2	○				Compulsory	Compulsory
10F257	Seminar on Urban Management A (都市社会工学セミナーA)	Related instructors	(4)	(4)	4			○	Compulsory		
10F259	Seminar on Urban Management B (都市社会工学セミナーB)	Related instructors	(4)	(4)	4			○	Compulsory		
10F150	Long-Term Internship (長期インターンシップ)	Related instructors	Intensive		4			○	○	○	○
10U210	Practice in Urban Management (都市社会工学実習)	Related instructors		2	2			○	○		
10U216	▼ORT on Urban Management (都市社会工学ORT)	Related instructors	(4)	(4)	4			○		○	○
10U224	▼Practice in Advanced Urban Management A (都市社会工学総合実習A)	Related instructors	(2)		1		○			○	○
10U225	▼Practice in Advanced Urban Management B (都市社会工学総合実習B)	Related instructors		(2)	1		○			○	○
10F003	Continuum Mechanics (連続体力学)	Sugiura, Yagi	2		2		○		○	○	○
10F067	◎Structural Stability (構造安定論)	Sugiura, Kitane	2		2		○		○	○	○
10F068	◎Material and Structural System & Management (材料・構造マネジメント論)	Yamamoto, An, Takaya	2		2		○		○	○	○
10F261	◎Earthquake Engineering/Lifeline Engineering (地震・ライフライン工学)	Igarashi (DPRI), Furukawa	2		2		○		○	○	○
10W001	◎Structural Engineering for Civil Infrastructure (社会基盤構造工学)	Related instructors		2	2		○		○	○	○
10F009	◎Structural Design (構造デザイン)	Takahashi, Kitane		2	2		○		○	○	○
10F010	◎Bridge Engineering (橋梁工学)	Sugiura, Yagi, Kitane, Matsumiya, Noguchi, Matsumoto		2	2		○		○	○	○
10A019	Concrete Structural Engineering (コンクリート構造工学)	Takahashi, Yamamoto, Takaya, Nakamura (Part-time Lecturer)		2	2		○		○	○	○
10F227	Structural Dynamics (構造ダイナミクス)	Takahashi, Igarashi (DPRI)	2		2		○		○	○	○
10F263	Seismic Engineering Exercise (サイスミックシミュレーション)	Takahashi, Hiroyuki Goto (DPRI)		2	2		○		○	○	○
10F415	Ecomaterial Design (環境材料設計学)	Yamamoto, Takaya, Sato (Part-time Lecturer)	2		2		○		○	○	○
10F089	Infrastructure Safety Engineering (社会基盤安全工学)	Ohta, Yasuda		2	2		○		○	○	○
10A216	◎○Hydrology (水文学)	Tachikawa, Ichikawa, Yorozu		2	2		○		○	○	○
10A040	Sediment Hydraulics (流砂水理学)	Hitoshi Gotoh, Harada	2		2		○		○	○	○
10F464	Hydrologic Design and Management (水工計画学)	Tachikawa, Ichikawa, Tomohiro Tanaka	2		2		○		○	○	○
10F270	Viscous Fluid Dynamics (粘性流体力学)	Hitoshi Gotoh, Sanjou (DPRI), Ikari, Shimizu	2		2		○		○	○	○
10F271	Multiphase Flow Dynamics (混相流体力学)	Harada, Onda, Ikari, Tasaki		2	2		○		○	○	○
10F272	Free Surface Flow Dynamics (自由表面流れの力学)	Harada, Onda, Tasaki	2		2		○		○	○	○
10F267	□Hydro-meteorologically based Disaster Prevention (水文気象防災学)	Nakakita (DPRI), Sayama (DPRI), Yamaguchi (DPRI), Naka (DPRI)	2		2		○		○	○	○
10A222	□Water Resources Systems (水資源システム論)	Hori (DPRI), Kenji Tanaka (DPRI), Yorozu (DPRI)	2		2		○		○	○	○
10F077	□River Basin Management of Flood and Sediment (流域治水砂防学)	Sumi (DPRI), Kawaike (DPRI), Takebayashi (DPRI)	2		2		○		○	○	○
10F269	○Coastal and Urban Water Disasters Engineering (沿岸・都市防災工学)	Igarashi (DPRI), Mori (DPRI), Yoneyama (DPRI), Shimura (DPRI)	2		2		○		○	○	○
10F466	○Disaster Mitigation for Sustainable Basin Environment (流域環境防災学)	Sanjou (DPRI), Nakatani (DPRI), Baba (DPRI), Kobayashi (DPRI)	2		2		○		○	○	○
10F011	◎Computational Fluid Dynamics (数値流体力学)	Hitoshi Gotoh, Khayyer, Ikari, Shimizu		2	2		○		○	○	○
10F065	◎Hydraulic Engineering for Infrastructure Development and Management (水域社会基盤学)	Hitoshi Gotoh, Tachikawa, Ichikawa, Harada, Khayyer, Sunmin Kim, Onda, Ikari		2	2		○		○	○	○
10F100	◎Applied Hydrology (応用水文学)	Hori (DPRI), Sumi (DPRI), Kenji Tanaka (DPRI), Kantoush (DPRI), Yorozu (DPRI), Kobayashi (DPRI)	2		2		○		○	○	○
10F103	◎Case Studies Harmonizing Disaster Management and Environment Conservation (環境防災生存科学)	Nakakita (DPRI), Mori (DPRI), Kawaike (DPRI), Sayama (DPRI), Yamaguchi (DPRI), Shimura (DPRI), Lahournat (DPRI)	2		2		○		○	○	○
10F106	◎Integrated Disasters and Resources Management in Watersheds (流域管理工学)	Yoneyama (DPRI), Kawaike (DPRI), Sanjou (DPRI), Nakatani (DPRI), Takebayashi (DPRI), Baba (DPRI)		2	2		○		○	○	○

Subject List (Advanced Engineering Course Program of the Department of Urban Management)

Subject code	Subject	Instructor	Number of hours per week		Credit	Subject category			Registration type		
									5 years		3 years
			1st semester	2nd semester		Core	Major	ORT	Master	Doctor	Doctor
10F025	Geomechanics (地盤力学)	Higo, Iwai, Hashimoto	2		2		○		○	○	○
10K016	◎Computational Geotechnics (計算地盤工学)	Sawamura, Hashimoto, Ueda (DPRI)		2	2		○		○	○	○
10F241	Construction of Geotechnical Infrastructures (ジオコンストラクション)	Kishida, Higo		2	2		○		○	○	○
10F405	◎Fundamental Geofront Engineering (ジオフロント工学原論)	Higo, Yasuhara, Iwai	2		2		○		○	○	○
10A055	Environmental Geotechnics (環境地盤工学)	Katsumi (GSGES), Takai (GSGES)	2		2		○		○	○	○
10F109	◎Disaster Prevention through Geotechnics (地盤防災工学)	Uzuoka (DPRI), Ueda (DPRI)		2	2		○		○	○	○
10F203	◎○Public Finance (公共財政論)	Onishi	2		2		○		○	○	○
10F207	Urban Environmental Policy (都市社会環境論)	Uno, Matsunaka	2		2		○		○	○	○
10F219	Quantitative Methods for Behavioral Analysis (人間行動学)	Fujii, Kawabata	2		2		○		○	○	○
10F215	Intelligent Transportation Systems (交通情報工学)	Uno, Yamada, Nakao		2	2		○		○	○	○
10A805	Remote Sensing and Geographic Information System (リモートセンシングと地理情報システム)	Uno, Susaki, Oba	2		2		○		○	○	○
10A808	Civic and Landscape Design (景観デザイン論)	Kawasaki, Yamaguchi, Yagi (Part-time Lecturer), Tanigawa	2		2		○		○	○	○
10F223	◎Risk Management (リスクマネジメント論)	Cruz (DPRI), Matsuda (DPRI)		2	2		○		○	○	○
10X333	◎Disaster Risk Management (災害リスク管理論)	Tatano (DPRI), Samaddar (DPRI)	2		2		○		○	○	○
693287	★Disaster Information (防災情報特論)	Yamori (DPRI), Hatayama (DPRI), Hiroi (DPRI)	2		2		○		○	○	○
733707	★Environmental Design Research (環境デザイン論)	Kobayashi (GSGES), Ochiai (GSGES)		2	2		○		○	○	○
10A402	Resources Development Systems (資源開発システム工学)	Murata, Kashiwaya		2	2		○		○	○	○
10F053	Applied Mathematics in Civil & Earth Resources Engineering (応用数理解析)	Fukuyama, Saito	2		2		○		○	○	○
10A405	Environmental Geosphere Engineering (地殻環境工学)	Koike, Kashiwaya	2		2		○		○	○	○
10F071	Applied Elasticity for Rock Mechanics (応用弾性学)	Fukuyama, Murata		2	2		○		○	○	○
10F073	Fundamental Theories in Geophysical Exploration (物理探査の基礎数理)	Takekawa, Xu	2		2		○		○	○	○
10F078	Rock Stress and Physical Properties (岩盤応力と地殻物性)	Lin, Ishitsuka, Yamamoto (Part-time Lecturer)		2	2		○		○	○	○
10A420	◎○Lecture on Exploration Geophysics (探査工学特論)	Takekawa, Xu		2	2		○		○	○	○
10F085	◎Measurement in the Earth's Crust Environment (地殻環境計測)	Fukuyama, Nara, Yamamoto (Part-time lecturer)	2		2		○		○	○	○
10F088	◎□Energy System Management (地球資源学)	Koike, Kashiwaya		2	2		○		○	○	○
10X311	◎Urban Infrastructure Management (都市基盤マネジメント論)	Ichikawa, Onishi, Takahashi, Tachikawa, Higo	2		2		○		○	○	○
10F113	◎Global Survivability Studies (グローバル生存学)	Tachikawa, Fujii, Cruz (DPRI), Sayama (DPRI), Yamashiki (GSAIS), Mclellan (Graduate School of Energy Science)	2		2		○		○	○	○
693291	★Emergency Management (危機管理特論)	Hatayama (DPRI), Tatano (DPRI), Samaddar (DPRI), Hiroi (DPRI)		2	2		○		○	○	○
756790	★Business Development in Energy (エネルギービジネス展開論)	Kobayashi (GSM), Nakayama		2	2				○	○	○
10i049	#◎Project Management in Engineering (エンジニアリングプロジェクトマネジメント)	Shojiki, Lintuluoto, and related instructors	2		2				○	○	○
10i050	#◎Exercise on Project Management in Engineering (エンジニアリングプロジェクトマネジメント演習)	Shojiki, Lintuluoto, and related instructors		Intensive	2				○	○	○
10F299	▼Master's Thesis (研究論文(修士))							○	Compulsory		
	Doctor's Thesis (研究論文(博士))							○		Compulsory	Compulsory

Legend
◎English Class
▼Japanese and English
○Biennial (Held this year)
□Biennial (Held next year)
※Subject of other Department
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