

**Guidance for the First Year Students
in Doctoral Program
(Advanced Engineering Course Program)
(The abridged translation for English speakers)**

Dept. of Civil and Earth Resources Engineering

Dept. of Urban Management

11:00 - 12:00, Tuesday 9th October 2012

Room C1-173 on Katsura Campus

Content

Department Guidance Summary	1
Guidelines for Graduate School (Dept. of Civil and Earth Resources Engineering)	3
Guidelines for Graduate School (Dept. of Urban Management)	7
Subject List (Dept. of Civil and Earth Resources Engineering)	11
Subject List (Dept. of Urban Management).....	13
Class Schedule (1st semester)	15
Class Schedule (2nd semester).....	18
The Handling of Test Reports	21

Dept. of Civil and Earth Resources Eng. and Dept. of Urban Management

Guidance for The First Year Students in Doctoral Program

(Date: 11:00 - 12:00, Tuesday 9th October 2012, Location: Room C1-173 on Katsura Campus)

(1) Message from The Heads of Departments [11:00 – 11:10 (approx.): Opening Remarks and Introduction of Staff]

- The Heads of Departments
 - Prof. Hitoshi Gotoh (Civil and Earth Resources Eng., Room C1-1-102)
 - Prof. Hiroataka Kawano (Urban Management, Room C1-2-219)
- Educational Affairs
 - Assoc. Prof. Eiji Harada (Civil and Earth Resources Eng., Room C1-1-101)
 - Assoc. Prof. Yoshitada Mito (Urban Management, Room C1-2-216)
- Assistants to Educational Affairs
 - Assoc. Prof. Michio Sanjou (Civil and Earth Resources Eng., Room C1-3-256)
 - Assoc. Prof. Ryoji Matsunaka (Urban Management, Room C1-3-261)

(2) Overview of Handouts [11:10 – 11:15 (approx.)]

School / Department	Contents
From Graduate School of Engineering	<ul style="list-style-type: none"> • Guidelines for Graduate School for The Academic Year 2012 <ul style="list-style-type: none"> ① Academic Calendar, ② Guide of registration (pp. 1-5), ③ Rules of Kyoto University on Degrees (pp. 119-129), ④ Rules of Graduate School of Engineering (p. 130), ⑤ Rules on Examinations (p. 131), ⑥ Policy on Class/Examination Schedule in Case of Weather Warning and Suspension of Public Transportation (p. 132), ⑦ Various Procedures (e.g., Leave of Absence/Withdrawal, Certificates, etc. pp. 133-134) • Class Schedule, Handbook for Students, Guidelines on Studying Abroad, Guidelines on Safety • User's Guide on Libraries • Campus Life at Kyoto University • On "Human Rights" • Information security
From Depts.	<ul style="list-style-type: none"> • Guidance for Doctoral Students • The abridged translation for English speakers

(3) Instructions on Registration [Educational Affairs, 11:15 – 11:45 (approx.)]

- **Requirements for Completion** (Refer to "Guidance of Doctoral Students") (Educational Guidelines: Advanced Engineering Course in Civil and Earth Resources Eng. (pp.51 - 55), and Advanced Engineering Course in Urban Management (pp.56 - 60)
 - Students in The Interdisciplinary Engineering Course (Developmental and Sustainable Infrastructure Engineering) should refer to pp. 98 - 101 (Human Security Engineering) to pp. 112 - 113, and the guidelines for the Course.
- Subjects for Doctoral Program (Refer to Educational Guidelines: Advanced Engineering Course in Civil and Earth Resources Eng. (pp.52-53) and Advanced Engineering Course in Urban Management (pp.57-58))
 - Integrated Seminar on Urban Management A & B, and Integrated Seminar on Infrastructure Engineering A & B (Refer to The Attached)
 - Practice in Advanced Urban Management and Practice in Advanced Infrastructure Engineering
 - ORT on Urban Management and ORT on Infrastructure Engineering (Refer to The Attached)
- Note on Subjects Offered Every Two Years and Those Offered in English (Semester/Year Offered)
- Conditions for Early Graduation

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 resource energy.

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 view points.

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 the Earth's crust and resource energy 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	Doctoral	Doctoral
Core Subject	2 or more credits	6 or more credits	4 credits
Major Subject	10 or more credits	12 credits or more	2 credits or more
Minor Subject	Not especially designated	Not especially designated	Not especially designated
Seminar • ORT • Internship of collaborative research	8 or more credits	12 credits or more	4 credits or more
Other subject	Take under the approval of your supervisor		
Total	30 or more credits	40 or more credits	10 credits or more

[NOTE]

- 1) The 30 credits to complete the Master's Program are included in the 40 which are necessary to complete the Doctoral Program (5-year course). To continue on with the Doctoral Program (5-year course), you must complete the Master's Program.
- 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 as well.
- 3) To take Major subjects, additional requirements have been set besides the ones above, depending on the educational program that you have selected. For details, see Note (5) below.
- 4) You can take the English subjects with double circles on the Subject List as Core subjects if your supervisor approves.
- 5) Seminar, Internship of collaborative project, ORT subjects are specified "ORT Subject" in "Subject List."

- **Portfolio**
 - Create a Portfolio after consultation with the supervisor.
 - Deadline: Due to Educational Affairs of C Cluster Office by 17:00 on Monday 15th October (to be approved at Departmental Meeting on Thursday 18th October).
 - To fill in the research plan (portfolio), MS word should be used. The signatures by your supervisors must be original handwriting. The form of the portfolio is on the web page at the Department of Civil and Earth Resources Eng.
 - Submission method
 1. Download Portfolio (Word file) from website.
http://www.um.t.kyoto-u.ac.jp/ja/oncampus/kyomu2012/portfolio_d
 2. Fill in required information on Page 1 to 3 of Portfolio (入学時提出用) and make a photocopy. (Fill in the name entry on the right of header)
 3. Obtain autographic signatures from your supervisor and two of your sub-supervisors in the signature entry of Page3.
 4. Staple and submit photocopied of Pages 1 to 3 of Portfolio with registration notification (履修届) to Student Affairs Division, C-Cluster
 5. The original of Portfolio is the important document required for your course completion. So, keep it by yourself at hand. (The original must be submitted at the last semester.)
- **Registration**
 - Register only for the first semester of the first year. Register for the remaining semesters during the designated registration period of the respective semester. Make sure that it reflects and corresponds with your submitted research activity plans.
 - Registration for This Semester: Submit the Registration Form to Educational Affairs of C Cluster Office between Monday 1st April and Wednesday 10th October 2012
 - Separate form is required for those in the Interdisciplinary Engineering Course (Three-Year) (Developmental and Sustainable Infrastructure Engineering, and Human Security Eng.).
- **E-mail Account**: Submit your E-mail address to Assoc. Prof. Mito <mito@kumst.kyoto-u.ac.jp>.
- **Student ID Card**: Each student is to pick up his/her student ID card from C Cluster Office.
- **Medical Checkup**
 - Date & Place of the Medical Checkup will be announced soon.
- Electronic Journals: Students who are new to Kyoto University need to attend a seminar in order to obtain an account.
- Japan Student Services Organization Scholarship: Visit C Cluster Office for details.

(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 the website of the Graduate School of Engineering. URL:<http://www.t.kyoto-u.ac.jp/syllabus-gs/>.
- (2) The subjects with white circles(○) on the Subject List 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 during Master’s Program.
- (5) As for taking Major subjects during “Master’s Program”, you must satisfy the requirements for one of the 5 educational divisions below. For the selection of your educational program, obtain your supervisor’s approval in advance.

Structural Division Education Program:

Must take all “Continuum Mechanics”, “Structural Stability”, “Material and Structural System & Management”, “Earthquake Engineering/Lifeline Engineering”, and “Infrastructural Structure Engineering”.

Hydrologic Division Education Program:

- Must take all “Hydrodynamics and Turbulence Mechanics”, “Hydrologic Design and Management”, “River Management”, and “Sediment Hydraulics”.
- Must take at least 3 subjects among , “Hydrology” “Open Channel Hydraulics”, “Coastal Wave 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 “Integrated Disasters and Resources Management in Watersheds”.

Geomechanics Division Education Program:

Consult with your supervisor for which subjects you take among “Geomechanics”, “Computational Geotechnics”, “Seminar on Geotechnics”, “Management of Geotechnical Infrastructures”, “Construction of Geotechnical Infrastructures”, “Geo-Risk Engineering”, “Fundamental Geofront Engineering”, “Geofront Environmental Design”, “Environmental Geotechnics”, “Numerical Methods in Geomechanics”, and “Disaster Prevention through Geotechnics”.

Planning Division Education Program:

Must take at least 2 subjects among “Governance for regional and transportation planning”, “Public Finance”, “Urban Environmental Policy”, “City Logistics”, “Quantitative Methods for Behavioral Analysis”, “Intelligent Transportation Systems”, “Advanced Geoinformatics”, “Civic and Landscape Design”, “Risk Management”, “Disaster Information”, “Disaster Risk Management”, and “Theory & Practice of Environmental Design Research”.

Earth Resources and Energy Division Education Program:

Must take at least 3 subjects among “Resources Development Systems”, “Applied Mathematics in Civil & Earth Resources Engineering”, “Computational Mechanics and Simulation”, “Environmental Geosphere Engineering”, “Modeling of Geology”, “Applied Elasticity for Rock Mechanics”, “Fundamental Theories in Geophysical Exploration”, “Design of Underground Structures”, “Lecture on Exploration Geophysics”, “Measurement in the Earth’s crust environment”, “Time Series Analysis”, and “Energy System Management”.

- (6) You must acquire 20 credits or more in total from the subjects listed in Subject List, among the 30 credits of completion requirement of Master's Program.
- (7) During "Master's Program", 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. 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.
- (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) If you have not completed the subjects with white circle provided for both Master's and Doctoral Programs in the "Registration Designation" during your Master's Program, you can add to the credits for your Doctoral Program.
- (10) Both Seminars on "Integrated Infrastructure Engineering A and B" are compulsory in Doctoral Program.
- (11) Your course registration plan 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.
- (12) As for taking "Urban Transport Policy", "Policy for Low-Carbon Society", "Urban Transport Management", "Policy for Low-Carbon Society, Advanced"; "Urban Transport Management, Advanced"; "Capstone Project Practice"; contact **the Low-Carbon Society Unit** prior to registering for the classes.
- (13) As for taking "Dialog/Liveable Cities", "Dialog/ Design of Liveable Cities" "Basic Civil Engineering & Health Science I" "Basic Civil Engineering & Health Science II" "Policy for Liveable Cities" "Methodology for Liveable Cities" "Seminar on Liveable Cities A" "Seminar on Liveable Cities B" "Disaster and Health Risk Management" "KANSEI urban spaces" and "Exercise on Project planning"; contact **Liveable Cities Unit** prior to registering for the classes.
- (14) The courses below have also been set in the Department of Civil and Earth Resources Engineering:
 - Structural Design Engineer/Researcher Training Course
 - Hydrologic Design Engineer/Researcher Training Course
 - Geo Design Engineer/Researcher Training Course
 - Urban Design Engineer/Researcher Training Course
 - Earth Resources and Energy Engineer/Researcher Training Course
 - International Course on Disaster Resilient Countries

If you have completed the subjects designated for each course and applied for the completion of the subject during your Master's Program, you will obtain a certificate to prove that you have completed that course.

[Note for 3-year Course]

- (1) For the details (syllabus) of each subject, please refer to the website of the Graduate School of Engineering. URL:<http://www.t.kyoto-u.ac.jp/syllabus-gs/>.
- (2) The subjects with white circles(○) on the Subject List 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 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.

- (7) As for taking “Urban Transport Policy”, “Policy for Low-Carbon Society”, “Urban Transport Management”, “Policy for Low-Carbon Society, Advanced”; “Urban Transport Management, Advanced”; “Capstone Project Practice”; contact **the Low-Carbon Society Unit** prior to registering for the classes.
- (8) As for taking “Dialog/Liveable Cities”, “Dialog/ Design of Liveable Cities” “Basic Civil Engineering & Health Science I” “Basic Civil Engineering & Health Science II” “Policy for Liveable Cities” “Methodology for Liveable Cities” “Seminar on Liveable Cities A” “Seminar on Liveable Cities B” “Disaster and Health Risk Management” “KANSEI urban spaces” and “Exercise on Project planning”; contact **Liveable Cities Unit** prior to registering for the classes.

3.2 Department of Urban Management

(1) Educational Policy

1) Necessity of Research and Education in the Department

To realize urban systems which are sustainable and internationally competitive which can assure a high quality of life with the global/regional environment preservation, comprehensive management of urban system is indispensable. Our department, subject to reserve 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	Doctoral	Doctoral
Core Subject	4 or more credits	8 or more credits	4 credits
Major Subject	4 or more credits	6 credits or more	2 credits or more
Minor Subject	Not especially designated	Not especially designated	Not especially designated
Seminar • ORT • Internship of collaborative research	8 or more credits	12 credits or more	4 credits or more
Other subject	Take under the approval of your supervisor		
Total	30 or more credits	40 or more credits	10 credits or more

[NOTE]

- 1) The 30 credits to complete the Master's Program are included in the 40 which are necessary to complete the Doctoral Program (5-year course). To continue on with the Doctoral Program (5-year course), you must complete the Master's Program.
- 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 as well.
- 3) To take Major subjects, additional requirements have been set besides the ones above, depending on the educational program that you have selected. For details, see Note (5) below.
- 4) International course students can take the English subjects with double circles on the Subject List as Core subjects if your supervisor approves.

- 5) Seminar, Internship of collaborative project, ORT subjects are specified “ORT Subject” in “Subject List.”

(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 the website of the Graduate School of Engineering. URL:<http://www.t.kyoto-u.ac.jp/syllabus-gs/>.
- (2) The subjects with white circles(○) on the Subject List 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. “Exercise on Project Planning” and “Capstone Project” are both elective compulsory subjects; you must select either of them.
- (5) As for taking Major subjects during “Master’s Program”, you must satisfy the requirements for one of the 5 educational divisions below. For the selection of your educational program, obtain your supervisor’s approval in advance.

Structural Division Education Program:

Must take all “Continuum Mechanics”, “Structural Stability”, “Material and Structural System & Management”, “Earthquake Engineering/Lifeline Engineering”, and “Infrastructural Structure Engineering”.

Hydrologic Division Education Program:

- Must take all “Hydrodynamics and Turbulence Mechanics”, “Hydrologic Design and Management”, “River Management”, and “Sediment Hydraulics”.
- Must take at least 3 subjects among , “Hydrology” “Open Channel Hydraulics”, “Coastal Wave 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 “Integrated Disasters and Resources Management in Watersheds”.

Geomechanics Division Education Program:

Consult with your supervisor for which subjects you take among “Geomechanics”, “Computational Geotechnics”, “Seminar on Geotechnics”, “Management of Geotechnical Infrastructures”, “Construction of Geotechnical Infrastructures”, “Geo-Risk Engineering”, “Fundamental Geofront Engineering”, “Geofront Environmental Design”, “Environmental Geotechnics”, “Numerical Methods in Geomechanics”, and “Disaster Prevention through Geotechnics”.

Planning Division Education Program:

Must take at least 2 subjects among “Governance for regional and transportation planning”, “Public Finance”, “Urban Environmental Policy”, “City Logistics”, “Quantitative Methods for Behavioral Analysis”, “Intelligent Transportation Systems”, “Advanced Geoinformatics”, “Civic and Landscape Design”, “Risk Management”, “Disaster Information”, “Disaster Risk Management”, and “Theory & Practice of Environmental Design Research”.

Earth Resources and Energy Division Education Program:

Must take at least 3 subjects among “Resources Development Systems”, “Applied Mathematics in Civil & Earth Resources Engineering”, “Computational Mechanics and Simulation”, “Environmental Geosphere Engineering”, “Modeling of Geology”, “Applied Elasticity for Rock Mechanics”, “Fundamental Theories in Geophysical Exploration”, “Design of Underground Structures”, “Lecture on Exploration Geophysics”, “Measurement in the Earth’s crust environment”, “Time Series Analysis”, and “Energy System Management”.

- (6) You must acquire 20 credits or more in total from the subjects listed in Subject List, among the 30 credits of completion requirement of Master's Program.
- (7) During "Master's Program", 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. 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.
- (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) If you have not completed the subjects with white circle provided for both Master's and Doctoral Programs in the "Registration Designation" during your Master's Program, you can add to the credits for your Doctoral Program.
- (10) Both "Integrated Seminar on Urban Management A and B" are compulsory in Doctoral Program.
- (11) Your course registration plan 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.
- (12) As for taking "Urban Transport Policy", "Policy for Low-Carbon Society", "Urban Transport Management", "Policy for Low-Carbon Society, Advanced"; "Urban Transport Management, Advanced"; "Capstone Project Practice"; contact **the Low-Carbon Society Unit** prior to registering for the classes.
- (13) As for taking "Dialog/Liveable Cities", "Dialog/ Design of Liveable Cities" "Basic Civil Engineering & Health Science I" "Basic Civil Engineering & Health Science II" "Policy for Liveable Cities" "Methodology for Liveable Cities" "Seminar on Liveable Cities A" "Seminar on Liveable Cities B" "Disaster and Health Risk Management" "KANSEI urban spaces" and "Exercise on Project planning"; contact **Liveable Cities Unit** prior to registering for the classes.
- (14) The courses below have also been set in the Department of Urban Management:
 - Public Policy Planning/Management Course
 - International Project Management Course (Infrastructure/Energy Development)
 - Urban Water/Geo Environment Management Course
 - Seismic Design/Management Course
 - Urban Transportation Policy Course (Urban Planning, Urban Transport Policy)
 - Earth Resources and Energy Engineer/Researcher Training Course
 - International Course on Disaster Resilient Countries

If you have completed the subjects designated for each course and applied for the completion of the subject during your Master's Program, you will obtain a certificate to prove that you have completed that course.

[Note for 3-year Course]

- (1) For the details (syllabus) of each subject, please refer to the website of the Graduate School of Engineering. URL:<http://www.t.kyoto-u.ac.jp/syllabus-gs/>.
- (2) The subjects with white circles(○) on the Subject List 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 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.
- (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.
- (8) As for taking “Urban Transport Policy”, “Policy for Low-Carbon Society”, “Urban Transport Management”, “Policy for Low-Carbon Society, Advanced”; “Urban Transport Management, Advanced”; “Capstone Project Practice”; contact **the Low-Carbon Society Unit** prior to registering for the classes.
- (9) As for taking “Dialog/Liveable Cities”, “Dialog/ Design of Liveable Cities” “Basic Civil Engineering & Health Science I” “Basic Civil Engineering & Health Science II” “Policy for Liveable Cities” “Methodology for Liveable Cities” “Seminar on Liveable Cities A” “Seminar on Liveable Cities B” “Disaster and Health Risk Management” “KANSEI urban spaces” and “Exercise on Project planning”; contact **Liveable Cities Unit** prior to registering for the classes.

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

Subject Code	Subject	Instructor	Number of Hrs per week		Credit	Subject Category			Registration Designation		
			1st Term	2nd		Core	Major	ORT	5 year course		3 year Course
									Master	Doctor	Doctor
10F251	Exercise on Project Planning	Related instructors	2	2	2	○			Required		
10U051	Integrated Seminar on Infrastructure Engineering A	Related instructors	2		2	○				Required	Required
10U052	Integrated Seminar on Infrastructure Engineering B	Related instructors		2	2	○				Required	Required
10U055	Seminar on Infrastructure Engineering A	Related instructors	(4)	(4)	4			○	Required		
10U056	Seminar on Infrastructure Engineering B	Related instructors	(4)	(4)	4			○	Required		
10U059	Internship on Infrastructure Engineering	Related instructors	Intensive		4			○	○	○	○
10F063	Practice in Infrastructure Engineering	Related instructors		2	2			○	○		
10U060	ORT on Infrastructure Engineering	Related instructors	(4)	(4)	4			○		○	○
10U063	Practice in Advanced Infrastructure Engineering	Related instructors	(2)	(2)	2		○			○	○
10F003	Continuum Mechanics	Sugiura, Yagi	2		2		○		○	○	○
10F067	◎Structural Stability	Shirato, Sugiura		2	2		○		○	○	○
10F068	◎Material and Structural System & Management	Miyagawa, Kawano, Hattori, T.Yamamoto	2		2		○		○	○	○
10F261	◎Earthquake Engineering/Lifeline Engineering	Kivono, T. Koike, Igarashi	2		2		○		○	○	○
10W001	◎Infrastructural Structure Engineering	Related instructors		2	2		○		○	○	○
10F009	◎Structural Design	Utsunomiya, Takahashi (DPRI), Kubota	2		2		○		○	○	○
10F010	◎Bridge Engineering	Shirato, Sugiura, Utsunomiya, Yagi		2	2		○		○	○	○
10A019	Concrete Structural Engineering	Miyagawa, Yamamoto, Murota (Part-time Lecturer)		2	2		○		○	○	○
10F227	Structural Dynamics	Igarashi, Furukawa	2		2		○		○	○	○
10F263	Seismic Simulation Exercise	S.Sawada, Takahashi (DPRI)		2	2		○		○	○	○
10F415	Ecomaterial and Environment-friendly Structures	Kawano, Hattori	2		2		○		○	○	○
10F089	Infrastructure Safety Engineering	Y. Koyama, Ohshima		2	2		○		○	○	○
10F075	Hydrodynamics and Turbulence Mechanics	Sanjou	2		2		○		○	○	○
10A216	◎Hydrology	Shiiba, Tachikawa	2		2		○		○	○	○
10F019	River Management	Hosoda, Kishida	2		2		○		○	○	○
10A040	Sediment Hydraulics	H.Gotoh, E.Harada	2		2		○		○	○	○
10F464	Hydrologic Design and Management	Shiiba, Tachikawa, S.Kim	2		2		○		○	○	○
10F245	◎Open Channel Hydraulics	Hosoda	2		2		○		○	○	○
10F462	◎Coastal Wave Dynamics	H.Gotoh, E.Harada, Khayyer, Oki (GL Education Unit)	2		2		○		○	○	○
10F267	□Hydro-meteorological Disaster Prevention	Takara, Nakakita, Kido, Yamashiki (DPRI)	2		2		○		○	○	○
10A222	□Water Resources Systems	Hori, K.Tanaka (DPRI)	2		2		○		○	○	○
10F077	□River Basin Management of Flood and Sediment	H.Nakagawa, Sumi, Kawaike, Takebayashi (DPRI)	2		2		○		○	○	○
10F269	○Coastal and Urban Water Disasters Engineering	Mase, Toda, Yoneyama, Mori (DPRI)	2		2		○		○	○	○
10F466	○Disaster Mitigation for Sustainable Basin Environment	Fujita, Hiraishi, Takemon, Tsutsumi (DPRI)	2		2		○		○	○	○
10F011	◎Computational Fluid Dynamics	Shirato, Ushijima		2	2		○		○	○	○
10F065	◎Hydraulic Engineering for Infrastructure Development and Management	Shiiba, Hosoda, H.Gotoh, Tachikawa, Kishida, E.Harada, Sanjou, S.Kim		2	2		○		○	○	○
10F100	◎Applied Hydrology	Hori, Sumi, Kido, Takemon, K.Tanaka (DPRI)	2		2		○		○	○	○
10F103	◎Case Studies Harmonizing Disaster Management and Environment	Takara, H.Nakagawa, Nakakita, Mase, Mori, Yamashiki (DPRI)	2		2		○		○	○	○
10F106	◎Integrated Disasters and Resources Management in Watersheds	Fujita, Toda, Hiraishi, Yoneyama, Kawaike, Takebayashi, Tsutsumi, Baba (DPRI)		2	2		○		○	○	○
10F025	Geomechanics	Oka, Kimoto	2		2		○		○	○	○
10K016	◎Computational Geotechnics	Oka, Kimoto		2	2		○		○	○	○
10F057	Seminar on Geotechnics	Oka, Iai (DPRI), Ohtsu, Mimura, Kimoto		2	2		○		○	○	○
10F237	Management of Geotechnical Infrastructures	Ohtsu, Kishida, Shiotani	2		2		○		○	○	○
10F241	◎Construction of Geotechnical Infrastructures	Kimura, Kishida		2	2		○		○	○	○
10F242	◎Geo-Risk Engineering	Ohtsu, Kishida, Shiotani		2	2		○		○	○	○
10F405	◎Fundamental Geofront Engineering	S.Nishiyama, T. Koyama, K.Ando (Part-time Lecturer)	2		2		○		○	○	○
10F407	Geofront Environmental Design	S.Nishiyama, T. Koyama, Ijiri(Part-time Lecturer)		2	2		○		○	○	○
10A055	Environmental Geotechnics	Katsumi, Inui (GSGES)	2		2		○		○	○	○
10F023	○Numerical Methods in Geomechanics	Oka, Kimoto	2		2		○		○	○	○
10F109	◎Disaster Prevention through Geotechnics	Iai, Mimura (DPRI)		2	2		○		○	○	○

Subject Code	Subject	Instructor	Number of Hrs per week		Credit	Subject Category			Registration Designation		
			1st Term	2nd		Core	Major	ORT	5 year course		3 year Course
									Master	Doctor	Doctor
10X313	◎Governance for Regional and Transportation Planning	K.Kobayashi		2	2		○		○	○	○
10F203	◎Public Finance	K.Kobayashi, Matsushima	2		2		○		○	○	○
10F207	Urban Environmental Policy	D.Nakagawa, Matsunaka	2		2		○		○	○	○
10F213	◎City Logistics	E.Taniguchi, Qureshi	2		2		○		○	○	○
10F219	Public Psychology for Human Behavior	S.Fujii	2		2		○		○	○	○
10F215	Intelligent Transportation Systems	Uno, T.Yamada		2	2		○		○	○	○
10A806	Advanced Geoinformatics	Tamura, Susaki		2	2		○		○	○	○
10A808	Civic and Landscape Design	Kawasaki, Kubota, Hara (Part-time Lecturer)		2	2		○		○	○	○
10F223	◎Risk Management	Yokomatsu (DPRI)		2	2		○		○	○	○
10X333	◎Disaster Risk Management	Tatano, Yokomatsu (DPRI)	2		2		○		○	○	○
693287	★Disaster Information	Tatano, Yamori, Hatayama (DPRI)	2		2		○		○	○	○
10A845	★Theory & Practice of Environmental Design Research	M.Kobayashi, H.Kobayashi (GSGES)		2	2		○		○	○	○
10A402	Resources Development Systems	T.Matsuoka, Murata	2		2		○		○	○	○
10F053	Applied Mathematics in Civil & Earth Resources Engineering	Tsukada, Saito	2		2		○		○	○	○
10K008	◎ Computational Mechanics and Simulation	H.Gotoh, T. Matsuoka, Murata, Furukawa	2		2		○		○	○	○
10A405	Environmental Geosphere Engineering	K. Koike	2		2		○		○	○	○
10F069	◎■Modeling of Geology	Y.Yamada		2	2		○		○	○	○
10F071	Applied Elasticity for Rock Mechanics	Murata		2	2		○		○	○	○
10F073	Fundamental Theories in Geophysical Exploration	Mikada, T.Gotoh	2		2		○		○	○	○
10F087	Design of Underground Structures	T.Asakura, Ishida		2	2		○		○	○	○
10A420	◎Lecture on Exploration Geophysics	Mikada, T.Gotoh		2	2		○		○	○	○
10F085	◎Measurement in The Earth's Crust Environment	T.Asakura, Ishida N.Yamamoto	2		2		○		○	○	○
10F039	□Time Series Analysis	Tsukada		2	2		○		○	○	○
10F086	□Energy System Management	K. Koike		2	2		○		○	○	○
10F081	Infrastructure Creation Engineering	Related instructors	2		2		○		○	○	○
10X311	◎ Urban Infrastructure Management	Ohtsu and related instructors	2		2		○		○	○	○
10F112	◎Introduction to Sustainability/Survivability Science	Takara(DPRI) and related instructors		2	2		○		○	○	○
693291	★Emergency Management Systems	H.Hayashi, Maki (DPRI)		2	2		○		○	○	○
10F201	Information Technology for Urban Society	Related instructors	2		2				○	○	○
10Z001	Urban Transport Policy	D. Nakagawa, Matsunaka, Yoon, Oba, Matsubara and Related Instructors	2		1				○	○	○
10Z002	Policy for Low-Carbon Society	E. Taniguchi, D. Nakagawa, Yoon, Matsubara and Related instructors	2		1				○	○	○
10Z003	Urban Transport Management	D. Nakagawa, S. Fujii, Uno, Yoon, Matsubara and Related instructors	2		1				○	○	○
10Z004	○Policy for Low-Carbon Society, Advanced	Related instructors		2	1				○	○	○
10Z005	○Urban Transport Management, Advanced	D. Nakagawa, S. Fujii, Matsunaka, Yoon, Oba, Matsubara and Related instructors		2	1				○	○	○
10Z006	○Capstone Project Practice	E. Taniguchi, D. Nakagawa, Matsunaka, Yoon, Oba, Matsubara and Related instructors		2	1				○	○	○
10Z063	Dialog/ Liveable Cities	Related instructors	2		2				○	○	○
10Z064	Dialog/ Design of Liveable Cities	Related instructors		2	2				○	○	○
10Z065	Basic Civil Engineering & Health Science I	Related instructors	2		2				○	○	○
10Z066	Basic Civil Engineering & Health Science II	Related instructors		2	2				○	○	○
10Z067	Policy for Liveable Cities	Related instructors	2		2				○	○	○
10Z068	Methodology for Liveable Cities	Related instructors		2	2				○	○	○
10Z058	Seminar on Liveable Cities A	Related instructors	2		1				○	○	○
10Z059	Seminar on Liveable Cities B	Related instructors		2	1				○	○	○
10Z069	Disaster and Health Risk Management	Related instructors	2		2				○	○	○
10Z070	KANSEI urban spaces	Related instructors		2	2				○	○	○
10Z062	Exercise on Project Planning	Related instructors	(2)	(2)	2				○	○	○
10F299	Master's Thesis								○	Required	
	Doctor's Thesis								○	Required	Required

Legend

◎English Class

○Biennial (Held this year)

□Biennial (Held next year)

◎■Held every year, but English and Japanese alternately every other year

◎●Held every year, but Japanese and English alternately every other year

※Subject of other Department

★Subject of other Graduate School

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

Subject Code	Subject	Instructor	Number of Hrs per week		Credit	Subject Category			Registration Designation		
			1st Term	2nd Term		Core	Major	ORT	5 year course		3 year
									Master	Doctor	Doctor
10F201	Information Technology for Urban Society	Related instructors	2		2	○			Required		Minor
10F251	Exercise on Project Planning	Related instructors	2	2	2	○			Elective		
10F253	Capstone Project	Related instructors	2	2	2	○			Elective		
10U201	◎Integrated Seminar on Urban Management A	Related instructors	2		2	○				Required	Required
10U203	◎Integrated Seminar on Urban Management B	Related instructors		2	2	○				Required	Required
10F257	Seminar on Urban Management A	Related instructors	(4)	(4)	4			○	Required		
10F259	Seminar on Urban Management B	Related instructors	(4)	(4)	4			○	Required		
10F150	Long-Term Internship	Related instructors	Intensive		4			○	○	○	○
10U210	Practice in Urban Management	Related instructors		2	2			○	○		
10U216	ORT on Urban Management	Related instructors	(4)	(4)	4			○		○	○
10U212	Practice in Advanced Urban Management	Related instructors	(2)	(2)	2		○			○	○
10F003	Continuum Mechanics	Sugiura, Yagi	2		2	○			○	○	○
10F067	◎Structural Stability	Shirato, Sugiura		2	2	○			○	○	○
10F068	◎Material and Structural System & Management	Miyagawa, Kawano, Hattori,	2		2	○			○	○	○
10F261	◎Earthquake Engineering/Lifeline Engineering	Kiyono, T. Koike, Igarashi	2		2	○			○	○	○
10W001	◎Infrastructural Structure Engineering	Related instructors		2	2	○			○	○	○
10F009	◎Structural Design	Utsunomiya, Takahashi (DPRI), Kubota	2		2	○			○	○	○
10F010	◎Bridge Engineering	Shirato, Sugiura, Utsunomiya, Yagi		2	2	○			○	○	○
10A019	Concrete Structural Engineering	Miyagawa, Yamamoto, Murota		2	2	○			○	○	○
10F227	Structural Dynamics	Igarashi, Furukawa	2		2	○			○	○	○
10F263	Seismic Simulation Exercise	S.Sawada, Takahashi		2	2	○			○	○	○
10F415	Ecomaterial and Environment-friendly Structures	Kawano, Hattori	2		2	○			○	○	○
10F089	Infrastructure Safety Engineering	Koyama, Ohshima		2	2	○			○	○	○
10F075	Hydrodynamics and Turbulence Mechanics	Sanjou	2		2	○			○	○	○
10A216	◎○Hydrology	Shiiba, Tachikawa	2		2	○			○	○	○
10F019	River Management	Hosoda, Kishida	2		2	○			○	○	○
10A040	Sediment Hydraulics	H.Gotoh, E.Harada	2		2	○			○	○	○
10F464	Hydrologic Design and Management	Shiiba, Tachikawa, S.Kim	2		2	○			○	○	○
10F245	◎○Open Channel Hydraulics	Hosoda	2		2	○			○	○	○
10F462	◎□Coastal Wave Dynamics	H.Gotoh, E.Harada, Khayyer, Oki (GL Education Unit)	2		2	○			○	○	○
10F267	□Hydro-meteorological Disaster Prevention	Takara, Nakakita, Kido, Yamashiki (DPRI)	2		2	○			○	○	○
10A222	□Water Resources Systems	Hori, K.Tanaka (DPRI)	2		2	○			○	○	○
10F077	□River Basin Management of Flood and Sediment	H.Nakagawa, Sumi, Kawaike, Takebayashi (DPRI)	2		2	○			○	○	○
10F269	○Coastal and Urban Water Disasters Engineering	Mase, Toda, Yoneyama, Mori (DPRI)	2		2	○			○	○	○
10F466	○Disaster Mitigation for Sustainable Basin Environment	Fujita, Hiraishi, Takemon, Tsutsumi (DPRI)	2		2	○			○	○	○
10F011	◎Computational Fluid Dynamics	Shirato, Ushijima		2	2	○			○	○	○
10F065	◎Hydraulic Engineering for Infrastructure Development and Management	Shiiba, Hosoda, H.Gotoh, Tachikawa, Kishida, E.Harada, Sanjou, S.Kim		2	2	○			○	○	○
10F100	◎Applied Hydrology	Hori, Sumi, Kido, Takemon, K.Tanaka (DPRI)	2		2	○			○	○	○
10F103	◎Case Studies Harmonizing Disaster Management and Environment Conservation	Takara, H.Nakagawa, Nakakita, Mase, Mori, Yamashiki (DPRI)	2		2	○			○	○	○
10F106	◎Integrated Disasters and Resources Management in Watersheds	Fujita, Toda, Hiraishi, Yoneyama, Kawaike, Takebayashi, Tsutsumi, Baba (DPRI)		2	2	○			○	○	○
10F025	Geomechanics	Oka, Kimoto	2		2	○			○	○	○
10K016	◎Computational Geotechnics	Oka, Kimoto		2	2	○			○	○	○
10F057	Seminar on Geotechnics	Oka, Iai (DPRI), Ohtsu, Mimura, Kimoto		2	2	○			○	○	○
10F237	Management of Geotechnical Infrastructures	Oka, Iai (DPRI), Ohtsu, Mimura,	2		2	○			○	○	○
10F241	◎Construction of Geotechnical Infrastructures	Kimura, Kishida		2	2	○			○	○	○
10F242	◎Geo-Risk Engineering	Ohtsu, Kishida, Shiotani		2	2	○			○	○	○
10F405	◎Fundamental Geofront Engineering	S.Nishiyama, Koyama, K.Ando	2		2	○			○	○	○
10F407	Geofront Environmental Design	S.Nishiyama, Koyama, Ijiri		2	2	○			○	○	○
10A055	Environmental Geotechnics	Katsumi, Inui	2		2	○			○	○	○
10F023	○Numerical Methods in Geomechanics	Oka, Kimoto	2		2	○			○	○	○
10F109	◎Disaster Prevention through Geotechnics	Iai, Mimura		2	2	○			○	○	○

Subject Code	Subject	Instructor	Number of Hrs per week		Credit	Subject Category			Registration Designation		
			1st Term	2nd Term		Core	Major	ORT	5 year course		3 year
									Master	Doctor	Doctor
10X313	◎Governance for Regional and Transportation Planning	K.Kobayashi		2	2		○		○	○	○
10F203	◎Public Finance	K.Kobayashi, Matsushima	2		2		○		○	○	○
10F207	Urban Environmental Policy	D.Nakagawa, Matsunaka	2		2		○		○	○	○
10F213	◎City Logistics	E.Taniguchi, Qureshi	2		2		○		○	○	○
10F219	Public Psychology for Human Behaviour	S.Fujii	2		2		○		○	○	○
10F215	Intelligent Transportation Systems	Uno, T.Yamada		2	2		○		○	○	○
10A806	Advanced Geoinformatics	Tamura, Susaki		2	2		○		○	○	○
10A808	Civic and Landscape Design	Kawasaki, Kubota, Hara		2	2		○		○	○	○
10F223	◎Risk Management	Yokomatsu (DPRI)		2	2		○		○	○	○
10X333	◎Disaster Risk Management	Tatano, Yokomatsu	2		2		○		○	○	○
693287	★Disaster Information	Tatano, Yamori, Hatayama	2		2		○		○	○	○
10A845	★Theory & Practice of Environmental Design Research	M.Kobayashi, H.Kobayashi		2	2		○		○	○	○
10A402	Resources Development Systems	T.Matsuoka, Murata	2		2		○		○	○	○
10F053	Applied Mathematics in Civil & Earth Resources Engineering	Tsukada, Saito	2		2		○		○	○	○
10K008	◎ Computational Mechanics and Simulation	H.Gotoh, T. Mastuoka, Murata, Furukawa	2		2		○		○	○	○
10A405	Environmental Geosphere Engineering	K. Koike	2		2		○		○	○	○
10F069	◎■Modelling of Geology	Y. Yamada		2	2		○		○	○	○
10F071	Applied Elasticity for Rock Mechanics	Murata		2	2		○		○	○	○
10F073	Fundamental Theories in Geophysical Exploration	Mikada, T.Gotoh	2		2		○		○	○	○
10F087	Design of Underground Structures	T.Asakura, Ishida		2	2		○		○	○	○
10A420	◎Lecture on Exploration Geophysics	Mikada, T.Gotoh		2	2		○		○	○	○
10F085	◎Measurement in The Earth's Crust Environment	T.Asakura, Ishida, N.Yamamoto	2		2		○		○	○	○
10F039	□Time Series Analysis	Tsukada		2	2		○		○	○	○
10F086	◎□Energy System Management	K. Koike		2	2		○		○	○	○
10F081	Infrastructure Creation Engineering	Related instructors	2		2		○		○	○	○
10X311	◎ Urban Infrastructure Management	Ohtsu and related instructors	2		2		○		○	○	○
10F112	◎Introduction to Sustainability/ Survivability Science	Takara and related instructors		2	2		○		○	○	○
693291	★Emergency Management Systems	H.Hayashi, Maki		2	2		○		○	○	○
10Z001	Urban Transport Policy	D. Nakagawa, Matsunaka, Yoon, Oba, Matsubara and Related	2 Intensive		1				○	○	○
10Z002	Policy for Low-Carbon Society	E. Taniguchi, D. Nakagawa, Yoon, Matsubara and Related instructors	2 Intensive		1				○	○	○
10Z003	Urban Transport Management	D. Nakagawa, S. Fujii, Uno, Yoon, Matsubara and Related instructors	2 Intensive		1				○	○	○
10Z004	○Policy for Low-Carbon Society, Advanced	Related instructors		2 Intensive	1				○	○	○
10Z005	○Urban Transport Management, Advanced	D. Nakagawa, S. Fujii, Matsunaka, Yoon, Oba, Matsubara and Related		2 Intensive	1				○	○	○
10Z006	○Capstone Project Practice	E. Taniguchi, D. Nakagawa, Matsunaka, Yoon, Oba, Matsubara and Related instructors		2 Intensive	1				○	○	○
10Z063	Dialog/ Liveable Cities	Related instructors	2		2				○	○	○
10Z064	Dialog/ Design of Liveable Cities	Related instructors		2	2				○	○	○
10Z065	Basic Civil Engineering & Health Science I	Related instructors	2		2				○	○	○
10Z066	Basic Civil Engineering & Health Science II	Related instructors		2	2				○	○	○
10Z067	Policy for Liveable Cities	Related instructors	2		2				○	○	○
10Z068	Methodology for Liveable Cities	Related instructors		2	2				○	○	○
10Z058	Seminar on Liveable Cities A	Related instructors	2 Intensive		1				○	○	○
10Z059	Seminar on Liveable Cities B	Related instructors		2 Intensive	1				○	○	○
10Z069	Disaster and Health Risk Management	Related instructors	2		2				○	○	○
10Z070	KANSEI urban spaces	Related instructors		2	2				○	○	○
10Z062	Exercise on Project Planning	Related instructors	(2)	(2)	2				○	○	○
10F299	Master's Thesis								Required		
	Doctor's Thesis								○	Required	Required
Legend ◎English Class ○Biennial (Held this year) □Biennial (Held next year) ◎■Held every year, but English and Japanese alternately every other year ◎●Held every year, but Japanese and English alternately every other year ※Subject of other Department ★Subject of other Graduate School											

Class Schedule for the Dept. of Civil and Earth Resources Eng./Urban Management

Note: The official version is written in Japanese. This is just for your reference.

1st semester	Master's Program				Doctoral Program		
	Department of Civil and Earth Resources Engineering		Department of Urban Management		Department of Civil and Earth Resources Engineering	Department of Urban Management	
Mon.	1	<input type="checkbox"/> River Basin Management of Flood and Sediment (H.Nakagawa , Sumi, Kawaike, Takebayashi) Katsura C1-173 To be held in 2013 (biennial)	Environmental Geotechnics (Katsumi, Inui) Katsura C1-192 Yoshida Bldng.8 Rm.1	<input type="checkbox"/> River Basin Management of Flood and Sediment (H.Nakagawa , Sumi, Kawaike, Takebayashi) Katsura C1-173 To be held in 2013 (biennial)	Environmental Geotechnics (Katsumi, Inui) Katsura C1-192 Yoshida Bldng.8 Rm.1		
	2	Continuum Mechanics (Sugiura, Yagi) Katsura C1-192	Sediment Hydraulics (H.Gotoh , E.Harada) Katsura C1-171	Continuum Mechanics (Sugiura, Yagi) Katsura C1-192	Sediment Hydraulics (H.Gotoh , E.Harada) Katsura C1-171		
		<input checked="" type="checkbox"/> Fundamental Geofront Engineering (S.Nishiyama, T. Koyama, Ando) Katsura C1-172	Urban Environmental Policy (D.Nakagawa , Matsunaka) Katsura C1-173	<input checked="" type="checkbox"/> Fundamental Geofront Engineering (S.Nishiyama,T. Koyama, Ando) Katsura C1-172	Urban Environmental Policy (D.Nakagawa , Matsunaka) Katsura C1-173		
	3	<input type="checkbox"/> Disaster Mitigation for Sustainable Basin Environment (Fujita, Hiraishi, Takemon, Tsutsumi) Katsura C1-191	<input type="checkbox"/> Hydro-meteorological Disaster Prevention (Takara, Nakakita, Kido, Yamashiki) Katsura C1-191 To be held in 2013 (biennial)	<input type="checkbox"/> Disaster Mitigation for Sustainable Basin Environment (Fujita, Hiraishi, Takemon, Tsutsumi) Katsura C1-191	<input type="checkbox"/> Hydro-meteorological Disaster Prevention (Takara, Nakakita, Kido, Yamashiki) Katsura C1-191 To be held in 2013 (biennial)		
		Geomechanics (Oka, Kimoto) Katsura C1-172	<input checked="" type="checkbox"/> Urban Infrastructure Management (Ohtsu and related instructors) Katsura C1-117	Geomechanics (Oka, Kimoto) Katsura C1-172	<input checked="" type="checkbox"/> Urban Infrastructure Management (Ohtsu and related instructors) Katsura C1-117		
	4	<input checked="" type="checkbox"/> Case Studies Harmonizing Disaster Management and Environment Conservation (Takara, H.Nakagawa , Nakakita, Mase, Mori, Yamashiki) Katsura C1-192	<input checked="" type="checkbox"/> Public Finance (K.Kobayashi, Matsushima) Katsura C1-173	<input checked="" type="checkbox"/> Case Studies Harmonizing Disaster Management and Environment Conservation (Takara, H.Nakagawa , Nakakita, Mase, Mori, Yamashiki) Katsura C1-192	<input checked="" type="checkbox"/> Public Finance (K.Kobayashi, Matsushima) Katsura C1-173	Integrated Seminar on Infrastructure Engineering (Related instructors) Katsura C1-171	Integrated Seminar on Urban Management (Related instructors) Katsura C1-171
	5	Public Psychology for Human Behaviour (S.Fujii) Katsura C1-172		Public Psychology for Human Behaviour (S.Fujii) Katsura C1-172			
	1	Structural Dynamics (Igarashi, Furukawa) Katsura C1-172	<input type="checkbox"/> Water Resources Systems (Hori, K.Tanaka) Katsura C1-192 To be held in 2013 (biennial)	Structural Dynamics (Igarashi, Furukawa) Katsura C1-172	<input type="checkbox"/> Water Resources Systems (Hori, K.Tanaka) Katsura C1-192 To be held in 2013 (biennial)		
		2	<input checked="" type="checkbox"/> Computational Mechanics and Simulation (H.Gotoh, T. Mastuoka, Murata, Furukawa) Katsura C1-173	Advanced Geoinformatics (Tamura , Susaki) Katsura C1-172	<input checked="" type="checkbox"/> Computational Mechanics and Simulation (H.Gotoh, T. Mastuoka, Murata, Furukawa) Katsura C1-173	Advanced Geoinformatics (Tamura , Susaki) Katsura C1-172	

Tue.	3	Applied Mathematics in Civil & Earth Resources Engineering (Tsukada, Saito) Katsura C1-192		Applied Mathematics in Civil & Earth Resources Engineering (Tsukada, Saito) Katsura C1-192			
	4	◎Earthquake Engineering/Lifeline Engineering (Kiyono, T. Koike, Igarashi) Katsura C1-191	Management of Geotechnical Infrastructures (Ohtsu, Kishida, Shiotani) Katsura C1-172	◎Earthquake Engineering/Lifeline Engineering (Kiyono, T. Koike, Igarashi) Katsura C1-191	Management of Geotechnical Infrastructures (Ohtsu, Kishida, Shiotani) Katsura C1-172		
	5						
Wed.	1	Ecomaterial and Environment-friendly Structures (Kawano, Hattori) Katsura C1-117	River Management (Hosoda, Kishida) Katsura C1-173	Ecomaterial and Environment-friendly Structures (Kawano, Hattori) Katsura C1-117	River Management (Hosoda, Kishida) Katsura C1-173		
			★Emergency Management Systems (H.Hayashi, Maki) Faculty of Engineering Integrated Research Bldg Rm213		★Emergency Management Systems (H.Hayashi, Maki) Faculty of Engineering Integrated Research Bldg Rm213		
	2	◎Material and Structural System & Management (Miyagawa, Kawano, Hattori, T.Yamamoto) Katsura C1-173	Environmental Geosphere Engineering (K. Koike) Katsura C1-171	◎Material and Structural System & Management (Miyagawa, Kawano, Hattori, T.Yamamoto) Katsura C1-173	Environmental Geosphere Engineering (K. Koike) Katsura C1-171		
		○Coastal and Urban Water Disasters Engineering (Mase, Toda, Yoneyama, Mori) Katsura C1-192		○Coastal and Urban Water Disasters Engineering (Mase, Toda, Yoneyama, Mori) Katsura C1-192			
	3	Hydrodynamics and Turbulence Mechanics (Sanjou) Katsura C1-171	◎City Logistics (E.Taniguchi, Qureshi) Katsura C1-172	Hydrodynamics and Turbulence Mechanics (Sanjou) Katsura C1-171	◎City Logistics (E.Taniguchi, Qureshi) Katsura C1-172		
		★Disaster Information (Tatano, Yamori, Hatayama) Eng. Bldg.2 room101	◎Measurement in The Earth's Crust Environment (T.Asakura, Ishida, N.Yamamoto) Katsura C1-192	★Disaster Information (Tatano, Yamori, Hatayama) Eng. Bldg.2 room101	◎Measurement in The Earth's Crust Environment (T.Asakura, Ishida, N.Yamamoto) Katsura C1-192		
	4	◎Applied Hydrology (Hori, Sumi, Kido, Takemon, K.Tanaka) Katsura C1-172	◎Disaster Risk Management (Tatano, Yokomatsu) Research Bldg. 5 Main Lecture Rm 2F	◎Applied Hydrology (Hori, Sumi, Kido, Takemon, K.Tanaka) Katsura C1-172	◎Disaster Risk Management (Tatano, Yokomatsu) Research Bldg. 5 Main Lecture Rm 2F		
	5	Integrated Seminar on Infrastructure Engineering A (Related instructors)		Seminar on Urban Management B (Related instructors)			

Thurs.	1	○Numerical Methods in Geomechanics (Oka, Kimoto) Katsura C1-172	Information Technology for Urban Society (Related instructors) Katsura C1-192	○Numerical Methods in Geomechanics (Oka, Kimoto) Katsura C1-172	Information Technology for Urban Society (Related instructors) Katsura C1-192		
	2			Capstone Project (Related instructors) Katsura C1-173			
	3	Exercise on Project Planning (Related instructors) Katsura C1-192		Exercise on Project Planning (Related instructors) Katsura C1-192		ORT on Infrastructure Engineering (Related instructors) Katsura C1-173	ORT on Urban Management (Related instructors) Katsura C1-173
	4	Infrastructure Creation Engineering (Related instructors) Katsura C1-192		Infrastructure Creation Engineering (Related instructors) Katsura C1-192			
	5	Integrated Seminar on Infrastructure Engineering B (Related instructors)		Seminar on Urban Management B (Related instructors)			
Fri.	1	◎◎Open Channel Hydraulics (Hosoda) Katsura C1-173	◎□Coastal Wave Dynamics (H.Gotoh, E.Harada, Khayyer, Oki) Katsura C1-173 To be held in 2013 (biennial)	◎◎Open Channel Hydraulics (Hosoda) Katsura C1-173	◎□Coastal Wave Dynamics (H.Gotoh, E.Harada, Khayyer, Oki) Katsura C1-173 To be held in 2013 (biennial)		
	2	◎Structural Design (Utsunomiya, Takahashi, Kubota) Katsura C1-173	Hydrologic Design and Prediction (Shiiba, Tachikawa, S.Kim) Katsura C1-191	◎Structural Design (Utsunomiya, Takahashi, Kubota) Katsura C1-173	Hydrologic Design and Prediction (Shiiba, Tachikawa, S.Kim) Katsura C1-191		
	3	Fundamental Theories in Geophysical Exploration (Mikada, T.Gotoh) Katsura C1-171		Fundamental Theories in Geophysical Exploration (Mikada, T.Gotoh) Katsura C1-171			
	4	Integrated Seminar on Infrastructure Engineering B (Related instructors)		Seminar on Urban Management A (Related instructors)			
	5	Integrated Seminar on Infrastructure Engineering A (Related instructors)			◎Integrated Seminar on Infrastructure Engineering A (Related instructors) Katsura C1-171	◎Integrated Seminar on Urban Management A (Related instructors) Katsura C1-171	

Class Schedule for the Dept. of Civil and Earth Resources Eng./Urban Management

Note: The official version is written in Japanese. This is just for your reference.

2nd semester	Master's Program				Doctoral Program		
	Department of Civil and Earth Resources Engineering		Department of Urban Management		Department of Civil and Earth Resources Engineering	Department of Urban Management	
Mon.	1	◎ Integrated Disasters and Resources Management in Watersheds (Fujita, Toda, Hiraishi, Yoneyama, Kawaike, Takebayashi, Tsutsumi, Baba) Katsura C1-172		◎ Integrated Disasters and Resources Management in Watersheds (Fujita, Toda, Hiraishi, Yoneyama, Kawaike, Takebayashi, Tsutsumi, Baba) Katsura C1-172			
	2	◎Structural Stability (Shirato, Sugiura) Katsura C1-171	◎ Disaster Prevention through Geotechnics (Iai, Mimura) Katsura C1-117	◎Structural Stability (Shirato, Sugiura) Katsura C1-171	◎ Disaster Prevention through Geotechnics (Iai, Mimura) Katsura C1-117		
	3	★Theory & Practice of Environmental Design Research (M.Kobayashi , H.Kobayashi) Middle-size Lecture Room in No.5 Bldg. at Yoshida	◎■Modelling of Geology (Y.Yamada) Katsura C1-173	★Theory & Practice of Environmental Design Research (M.Kobayashi , H.Kobayashi) Middle-size Lecture Room in No.5 Bldg. at Yoshida	◎■Modelling of Geology (Y.Yamada) Katsura C1-173		
	4	◎Bridge Engineering (Shirato, Sugiura, Utsunomiya, Yagi) Katsura C1-172	◎Geo-Risk Engineering (Ohtsu, Kishida, Shiotani) Katsura C1-171	◎Bridge Engineering (Shirato, Sugiura, Utsunomiya, Yagi) Katsura C1-172	◎Geo-Risk Engineering (Ohtsu, Kishida, Shiotani) Katsura C1-171		
	5	Integrated Seminar on Infrastructure Engineering A (Related instructors)		Seminar on Urban Management A (Related instructora)			
Tue.	1	Practice in Infrastructure Engineering (Related instructors) Katsura C1-173		Practice in Urban Management (Related instructors) Katsura C1-173			
	2	Concrete Structural Engineering (Miyagawa, K.Yamamoto, Murota) Katsura C1-172	◎○Hydrology (Shiiba, Tachikawa) Katsura C1-117	Concrete Structural Engineering (Miyagawa, K.Yamamoto, Murota) Katsura C1-172	◎○Hydrology (Shiiba, Tachikawa) Katsura C1-117		
	3	◎Hydraulic Engineering for Infrastructure Development and Management (Shiiba, Hosoda, H.Gotoh, Tachikawa, Kishida, E.Harada, Sanjou, S.Kim) Katsura C1-117	Civic and Landscape Design (Kawasaki, Kubota, Hara) Katsura C1-173	◎Hydraulic Engineering for Infrastructure Development and Management (Shiiba, Hosoda, H.Gotoh, Tachikawa, Kishida, E.Harada, Sanjou, S.Kim) Katsura C1-117	Civic and Landscape Design (Kawasaki, Kubota, Hara) Katsura C1-173		

		Design of Underground Structures (T.Asakura, Ishida) Katsura C1-172		Design of Underground Structures (T.Asakura, Ishida) Katsura C1-172			
	4	□Time Series Analysis (Tsukada) Katsura C1-172 To be held in 2013 (biennial)	◎Governance for Regional and Transportation Planning (K.Kobayashi) Katsura C1-171	□Time Series Analysis (Tsukada) Katsura C1-172 To be held in 2013 (biennial)	◎Governance for Regional and Transportation Planning (K.Kobayashi) Katsura C1-171		
	5	Integrated Seminar on Infrastructure Engineering A (Related instructors)		Seminar on Urban Management A (Related instructors)		◎Integrated Seminar on Infrastructure Engineering B (Related instructors) Katsura C1-171	◎Integrated Seminar on Urban Management B (Related instructors) Katsura C1-171
Wed.	1						
	2	Geofront Environmental Design (S.Nishiyama, T. Koyama, Ijiri) Katsura C1-173	◎Introduction to Sustainability/ Survivability Science (Takara and related instructors) Katsura C1-192	Geofront Environmental Design (S.Nishiyama, T. Koyama, Ijiri) Katsura C1-173	◎Introduction to Sustainability/ Survivability Science (Takara and related instructors) Katsura C1-192		
	3	◎Risk Management (Yokomatsu) Katsura C1-173		◎Risk Management (Yokomatsu) Katsura C1-173			
	4	◎○Lecture on Exploration Geophysics (Mikada, T.Gotoh) Katsura C1-117		◎○Lecture on Exploration Geophysics (Mikada, T.Gotoh) Katsura C1-117			
	5	Exercise on Project Planning (Related instructors) Katsura C1-192		Exercise on Project Planning (Related instructors) Katsura C1-192			
Thurs.	1	Seminar on Geotechnics (Oka, Iai, Ohtsu, Mimura, Kimoto) Katsura C1-173		Seminar on Geotechnics (Oka, Iai, Ohtsu, Mimura, Kimoto) Katsura C1-173			
	2	◎Infrastructural Structure Engineering (Related instructors) Katsura C1-172		◎Infrastructural Structure Engineering (Related instructors) Katsura C1-172			
	3	Infrastructure Safety Engineering (Y. Koyama, Ohshima) Katsura C1-172		Infrastructure Safety Engineering (Y. Koyama, Ohshima) Katsura C1-172			
	4	Integrated Seminar on Infrastructure Engineering B (Related instructors)		Capstone Project (Related instructors) Katsura C1-171		ORT on Infrastructure Engineering	ORT on Urban Management (Related instructors)

	5			Seminar on Urban Management B (Related instructors)		(Related instructors) Katsura C1-173	Related instructors/ Katsura C1-173
Fri.	1	◎Construction of Geotechnical Infrastructures (Kimura, Kishida) Katsura C1-171	Resources Development Systems (T.Matsuoka, Murata) Katsura C1-172	◎Construction of Geotechnical Infrastructures (Kimura, Kishida) Katsura C1-171	Resources Development Systems (T.Matsuoka, Murata) Katsura C1-172		
	2	◎Computational Geotechnics (Oka, Kimoto) Katsura C1-172	Intelligent Transportation Systems (Uno, T.Yamada) Katsura C1-173	◎Computational Geotechnics (Oka, Kimoto) Katsura C1-172	Intelligent Transportation Systems (Uno, T.Yamada) Katsura C1-173		
		◎□Energy System Management (K.Koike) Katsura C1-171 To be held in 2013 (Biennial)		◎□Energy System Management (K.Koike) Katsura C1-171 To be held in 2013 (Biennial)			
	3	Applied Elasticity for Rock Mechanics (Murata) Katsura C1-172		Applied Elasticity for Rock Mechanics (Murata) Katsura C1-172			
	4						
5	Integrated Seminar on Infrastructure Engineering B (Related instructors)		Seminar on Urban Management B (Related instructors)		Practice in Advanced Infrastructure Engineering (Related instructors) Katsura C1-172	Practice in Advanced Urban Management (Related instructors) Katsura C1-172	

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 unacceptable.
- 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).