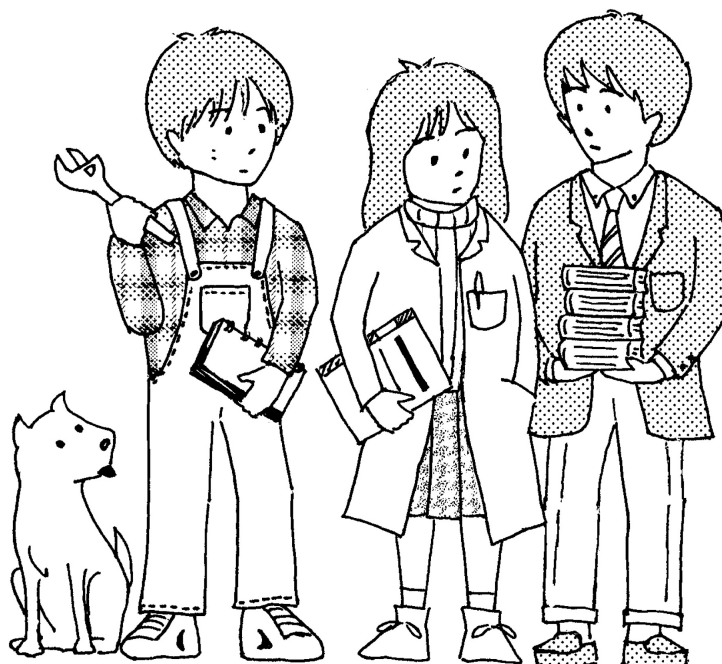


SYLLABUS

2010

[E] Interdisciplinary Engineering Course Program (3yr Course)



Kyoto University, Graduate School of Engineering

[E] Interdisciplinary Engineering Course Program (3yr Course)

Laboratory of Human Security Engineering

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Human Security Engineering

人間安全保障工学概論

【Code】 10X301 【Course Year】 Doctor Course 【Term】 1st term 【Class day & Period】 Wed 5th

【Location】 C1-171 【Credits】 2 【Restriction】 【Lecture Form(s)】 Relay Lecture 【Language】 English

【Instructor】 MATSUOKA Yuzuru, MONNAI Teruyuki, OHTSU Hiroyasu, TANAKA Hiroaki, TATANO Hirokazu, KOBAYASHI Kiyoshi, MATSUSHITA Kazuo

【Course Description】 This lecture aims to get student to comprehensively and deeply understand issues related to "Human Security Engineering" as a system of technologies for designing and managing cities that enable inhabitants to live under better public health conditions, and environmental destruction, as listed in the Millennium Development Goals from the viewpoint of four existing fields, i.e. urban governance, urban infrastructure management, health risk management, and disaster risk management. In addition, we'll provide lectures on this new discipline systematically based on the relationship between four existing fields.

【Grading】 Participation, Presentation, and Report

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
Orientation	1	
Tentative Overview of Human Security Engineering	1	
Urban Governance	2	
Urban Infrastructure Management	2	
Health Risk Management	2	
Disaster Risk Management	2	
Human Security and Environmental Security	1	
Human Right, Property and Social Capital	1	
Poverty Traps	1	

【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Urban Governance

都市ガバナンス論

【Code】 10X303 【Course Year】 Doctor Course 【Term】 1st term 【Class day & Period】 Fri 3rd 【Location】

【Credits】 2 【Restriction】 【Lecture Form(s)】 Lecture 【Language】 English

【Instructor】 MONNAI Teruyuki, KANKI Kiyoko, KOBAYASHI Masami, SHAW Rajib, FURUSAKA Shuzo

【Course Description】 The key to raising the human quality of life lies in well-designed cities that make good use of human and physical resources. In this course, we will explore the methodology of urban governance, including bottom-up decision making based on collaboration of various actors, in order to solve the multi-dimensional human security problems of safety, health, convenience, comfort, amenity, and sustainability. Moreover, multiple lecturers will provide interesting topics of urban governance, with concrete problems for students to discuss.

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Lectures in Urban Governance 1

都市ガバナンス学各論 1

【Code】 10X305 【Course Year】 Doctor Course 【Term】 1st term 【Class day & Period】 Supervisor

【Location】 Supervisor 【Credits】 2 【Restriction】 【Lecture Form(s)】 Seminar 【Language】 【Instructor】

【Course Description】 This class will cover the hot topics on urban governance within human security engineering. Instructors will present current literature and expect students to develop arguments.

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】 Tailor-made lectures by supervisor

Lectures in Urban Governance 2

都市ガバナンス学各論 2

【Code】 10X307 【Course Year】 Doctor Course 【Term】 2nd term 【Class day & Period】 Supervisor

【Location】 Supervisor 【Credits】 2 【Restriction】 【Lecture Form(s)】 Seminar 【Language】 【Instructor】

【Course Description】 In this class, research topics related to urban governance within human security engineering will be assigned to students to enable them to solve human security problems. The students are required to review the latest or important fundamental papers, including related areas, and debate ideas with their teachers.

【Grading】

【Course Goals】

【Course Topics】

Theme	<small>Class number of times</small>	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】 Tailor-made lectures by supervisor

Global Environmental Law and Policy

地球環境法・政策論

【Code】10X309 【Course Year】Master and Doctor Course 【Term】1st term 【Class day & Period】Wed 2nd 【Location】 【Credits】2 【Restriction】
 【Lecture Form(s)】Lecture 【Language】English 【Instructor】MATSUSHITA Kazuo, OBATA Fumiko

【Course Description】The course will examine the legal and institutional framework of global environmental policy as well as the activities of various actors including governments, international organizations, businesses and civil society.

【Grading】Students will be evaluated principally by class presentations as well as an end-of-term report, taking active and constructive participation in the class into account.

【Course Goals】The objective of this course is to identify ways and means to create global benefits and realize sustainable societies.

【Course Topics】

Theme	Class number of times	Description
Introduction and Explanation of Course Outline	1	
Stockholm to Rio	1	
Rio to Johannesburg	1	
Environmental Accords	1	
The Ozone Layer Protection and Climate Change Regimes	1	
The UN Systems, Development Assistance and the Environment	1	
Civil Society and Governance without Government	1	
Outline of the Japanese Environmental Law	1	
Corporate Social Responsibility	1	
Smoking Regulations in Japan	1	
Basic Environmental Law, Air Pollution Control Law, Environmental Impact Assessment Law	3	

【Textbook】Speth, J.G., and Haas, P.M., Global Environmental Governance, Island Press, 2006

松下和夫「環境政策学のすすめ」丸善株式会社，2007年

松下和夫「環境ガバナンス」岩波書店，2002年

環境省ホームページ <http://www.env.go.jp/en/lar/lar-index.html>

【Textbook(supplemental)】WCED, Our Common Future, Oxford University Press, 1997

UNEP, Global Environment Outlook(GEO)4, 2007

UNEP, Global Environment Outlook(GEO)3, Earthcan, 2002

Elliot, Lorraine, The Global Politics of the Environment, Macmillan Press Ltd, 1998

World Watch Institute, State of the World, Norton, annual publications

ワイツゼッカー，「地球環境政策」有斐閣，1994

ガレット・ポーター他，「入門地球環境政治」有斐閣，1998

松下和夫，「環境政治入門」平凡社新書，2000

松下和夫編・著，「環境ガバナンス論」京都大学学術出版会，2007

松井三郎編，「今なぜ地球環境か」コロナ社，2002

亀山康子，「地球環境政策」，昭和堂，2003

蟹江憲史，「環境政治学入門 - 地球環境問題の国際的解決へのアプローチ - 」，丸善株式会社，2004

倉坂秀史，「環境政策論」，信山社，2004

【Prerequisite(s)】

【Web Sites】

【Additional Information】Students are divided into several groups. Each group is required to make presentations in the class on assigned subjects.

Urban Infrastructure Management

都市基盤マネジメント論

【Code】 10X311 【Course Year】 Doctor Course 【Term】 1st term 【Class day & Period】 Mon 3rd

【Location】 C1-171 【Credits】 2 【Restriction】 【Lecture Form(s)】 Lecture 【Language】 English

【Instructor】 OHTSU Hiroyasu

【Course Description】 This lecture aims to provide interdisciplinary knowledge associated with how urban infrastructure is comprehensively management, from viewpoint of not only economy but also "human security engineering". In detail, the contents of lectures consist of following topics:

Urban Infrastructure Asset Management,
 Urban Environment Accounting System,
 Urban Energy Supply Management,
 Urban Food/Water Supply Management,
 Urban Transport/Logistics Management.

【Grading】 Participation(10), Presentation(50), Report(40)

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
Guidance, Introduction of Urban Infrastructure Asset Management	1	
Urban Infrastructure Asset Management	3	
Urban Transport/Logistics Management	3	
Urban Environment Accounting System	2	
Urban Food/Water Supply Management	2	
Urban Energy Supply Management	2	
Presentation	1	

【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Governance for Regional and Transportation Planning

地域・交通ガバナンス論

【Code】10X313 【Course Year】Doctor Course 【Term】2nd term 【Class day & Period】Tue 4th 【Location】C1-171

【Credits】2 【Restriction】 【Lecture Form(s)】Lecture 【Language】English 【Instructor】KOBAYASHI Kiyoshi

【Course Description】 This lecture aims to provide interdisciplinary knowledge associated with appropriate governance strategies for regional, urban, transportation planning. In detail, the contents of lectures consist of following topics:

Urban development management based upon PPP, landscape design to support activities, public transportation system for sustainable growth, urban facilities planning considering the variety in behaviors, ITS to support highly-advanced transportation behavior, advanced logistic system, and remote sensing technology for urban and regional planning

【Grading】 Participation (10), Presentation (50), Report (40)

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
Introduction of Urban Infrastructure Management	1	
Trust formation and Community Governance	1	
Strategic Complementarity in Transportation Market	1	
Compact city and the governance for cities	2	
Concepts and visions for city logistics	2	
Expectations for ITS and issues	1	
Activity model and transportation management	1	
An evaluation of the proposed symbolic guide signs at intersections	1	
Urban Design Considering Amenity in the River-Front	1	
Remote Sensing for urban planning	2	

【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Lectures in Urban Infrastructure Management 1

都市基盤マネジメント学各論 1

【Code】10X315 【Course Year】 【Term】1st term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Lectures in Urban Infrastructure Management 2

都市基盤マネジメント学各論 2

【Code】10X317 【Course Year】 【Term】2nd term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Global Environmental Economics

地球環境経済論

【Code】10X319 【Course Year】Master and Doctor Course 【Term】1st term 【Class day & Period】Mon 2nd 【Location】 【Credits】2 【Restriction】

【Lecture Form(s)】Lecture 【Language】English 【Instructor】UETA Kazuhiro, MORI Akihisa

【Course Description】Lectures will be given on the theory and policy of sustainable development in view of environmental/ecological economics. In particular the focus will be on:

- Reconstructing relations between humans and nature, taking environmental constraints, material cycles, efficiency, equity and sustainability into account
- Clarify socio-economic mechanisms of global and local environmental problems and policies and measures to deal with them
- Valuing the environment and evaluating the policies and institutions that cause current environmental problems

The lecture will then discuss multi-level environmental governance that enables to manage local and global common-pool resources and/or environmental assets, to finance for sustainable development.

【Grading】Evaluated mainly by end-of-term examination scores, taking active and constructive participation in the class into account.

【Course Goals】To acquire basic theory and methodology on global environmental economics and policies, and economics of sustainable development.

【Course Topics】

Theme	Class number of times	Description
Introduction: Economics and the Environment	1	
Topics and Challenges of Environmental Economics	1	
Sustainable Development: Economics of Environment and Development	1	
Theory of Environmental Valuation and Decision Making	1	
Environmental Policy: Goals, Instruments and Actors	1	
Environmental Policy Instruments	2	
Environmental Policy Integration	1	
Environmental Policy Innovation, Diffusion and Technological Innovation	1	
International Trade, FDI and the Environment	1	
International Environmental Aid and Financial Mechanisms for Global Environment	1	
Poverty and Environment	1	
Economic Development and Environmental Policy in East Asia	1	

【Textbook】植田和弘,「環境経済学」,岩波書店,1996

諸富・浅野・森,「環境経済学」,有斐閣,2008

【Textbook(supplemental)】Dasgupta, Partha, 2007. Economics: A Very Short Introduction. Oxford: Oxford University Press

Adams, William M., Green Development: Environment and Sustainability in a Developing World. 3rd Edition. London: Routledge.

Kerry Turner, David Pearce and Ian Batemen, 1994. Environmental economics: An Elementary Introduction. Pearson Education Limited.

Atkinson, Giles, Simon Dietz and Eric Neumayer (eds.) 2007. Handbook of Sustainable Development. Cheltenham; Edward Elgar.

Maler, Karl-Goran and Jeffery R. Vincent (eds.) 2003. Handbook of Environmental Economics Vol.1: Environmental degradation and Institutional Responses. Amsterdam: North-Holland.

Dasgupta, Partha, Human Well-Being and the Natural Environment. Oxford: Oxford University Press

Jordan, Andrew J. and Andrea Lenschow, 2008. Innovation in Environmental Policy? Integrating the Environment for Sustainability. Cheltenham: Edward Elgar.

日本環境会議「アジア環境白書」編集委員会(編),「アジア環境白書 2006/07」,東洋経済新報社,2006

岩波講座 環境経済・政策学,第1-8巻,岩波書店

淡路・川本・植田・長谷川(編),「リーディングス環境」1-5巻,有斐閣

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Lecture on Environmental Management Leader

環境リスク管理リーダー論

【Code】10X321 【Course Year】Master and Doctor Course 【Term】1st term 【Class day & Period】Thu 5th 【Location】C1-171 【Credits】2 【Restriction】
 【Lecture Form(s)】Relay Lecture 【Language】English 【Instructor】TANAKA Hiroaki, SHIMIZU Yoshihisa, FUJII Shigeo

【Course Description】 In this class, we ' ll give lectures on theory of risk analysis, risk identification, risk assessment, risk evaluation, and risk reduction and avoidance in the field of urban human security including human health risk and ecological risk. The main purpose of this lecture is to provide students basic viewpoint and knowledge required for environmental leaders who can practically solve environmental issues occurring in developing countries, showing several international environmental projects as practical case works.

【Grading】 Participation, Oral and Poster Presentation, and Report

【Course Goals】 The main purpose of this lecture is to provide students with the basic viewpoint and knowledge required for environmental leaders able to practically solve environmental issues occurring in developing countries, focusing on several international environmental projects as practical case works.

【Course Topics】

Theme	Class number of times	Description
Introduction	1	In this introductory lecture, the current situation and problems of the environment in Asian developing countries are explained, and basic ideas for their improvement measures are given together with fundamental terminologies.
Energy and Environment	1	
View point and commitment to rural environmental issues	1	
Disaster Risk Management and Grass-roots International Cooperation	1	
Environmental Risk Assessment and Risk Communication	1	
Water, Sanitation and Solid Waste Management for Developing Countries	1	
Presentations and Discussions	1	
Japan's Lessons on Economy & Development	1	
Solid Waste Management	1	
Ensuring Sustainability in Water Supply and Sewerage Sector	1	
Water Supply and Human Security	1	
Impending Issues in Lake Biwa-Yodo River Water Management and the Basin Governance	1	
Environment & Sanitary Engineering Research International Session	1	
Poster Presentation in Environment & Sanitary Engineering Research Symposium	1	

【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】 To be announced at class about poster presentation in Environment & Sanitary Engineering Research Symposium.

Lectures in Health Risk Management 1

環境リスク管理学各論 1

【Code】10X323 【Course Year】 【Term】1st term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Lectures in Health Risk Management 2

環境リスク管理学各論 2

【Code】10X325 【Course Year】 【Term】2nd term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Environmental Engineering for Asia

アジア環境工学

【Code】 10X327 【Course Year】 Master and Doctor Course 【Term】 2nd term 【Class day & Period】 Mon 5th

【Location】 C1-171 【Credits】 2 【Restriction】 【Lecture Form(s)】 Lecture 【Language】 English

【Instructor】 SHIMIZU Yoshihisa, FUJII Shigeo, TSUNO Hiroshi, TANAKA Hiroaki, MATSUOKA Yuzuru, TAKAOKA Masaki, KURATA Gakuji

【Course Description】 The course is a simultaneously conducted distance-learning conducted at Kyoto University, and from remote lecture stations in the University of Malaya, and Tsinghua University. A hybrid system is used for this distance learning, which consists of prerecorded lecture videos, VCS (Video Conference System) and SS (Slide Sharing System). The students are requested to give short presentations in English at the end of the lecture course. This course seeks to improve students' English skills and international senses through lectures, presentations, and discussions.

【Grading】 Evaluation by class attendance, Q&A and presentations.

【Course Goals】 This course covers, in English, various kinds of engineering issues related to water environments, atmospheric environment and solid waste management, encompassing fundamental knowledge, the latest technologies and regional application examples. These lectures, together with English presentations by students, and discussions enhance the English capability and internationality of students.

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】 Either "New Environmental Engineering I, advanced" or "New Environmental Engineering II, advanced" will be acceptable as corresponding to this course. PowerPoint slides are the main teaching materials in the lectures, and hard copies are distributed to the students. In addition, a list of technical terms and difficult English words will be given to the students with their explanations and Japanese translations.

Management of Global Resources and Ecosystems

地球資源・生態系管理論

【Code】10X329 【Course Year】 【Term】1st term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Environmental Ethics and Environmental Education

環境倫理・環境教育論

【Code】10X331 【Course Year】Master and Doctor Course 【Term】1st term 【Class day & Period】Tue 5th 【Location】C1-171

【Credits】2 【Restriction】 【Lecture Form(s)】Lecture 【Language】English

【Instructor】FUJII Shigeo, TANIGUCHI Fumiaki, SUGIMOTO Kazuo

【Course Description】Ethical approaches and educational activities are essential for solving environmental problems, especially to facilitate consensus-building among conflicting stakeholders. This lecture, provides the principles of environmental education, the relationship between education and ethics, the chemical management of chemical substances, the ISO14000 series and some case studies. Students will join the class not only by auditing, but also by discussion and presentations.

【Grading】Several reports and group presentation.

【Course Goals】The objectives of this lecture are to study the "Environmental Ethics" that are essential to the recognition of environmental problems, and to consider the "Environmental Education" that is it necessary to provide to the public.

【Course Topics】

Theme	Class number of times	Description
Environmental ethics overview	1	
Goal of environmental education and categories of environments of nature, society and mind	1	
Pedagogy of environmental education based on environmental philosophy	1	
Environmental education oriented by environmental ethics	1	
Case studies of environmental education	2	
Solutions for global environmental issues through environmental education	1	
Precautionary principles, focusing on hazardous chemical problems	1	
ISO 14000 series	3	
Group discussion on environmental ethics/education	1	
Group presentation about environmental ethics/education	1	

【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Disaster Risk Management

災害リスク管理論

【Code】 10X333 【Course Year】 Doctor Course 【Term】 1st term 【Class day & Period】 Wed 4th

【Location】 C1-171 【Credits】 2 【Restriction】 【Lecture Form(s)】 Lecture 【Language】 English

【Instructor】 TATANO Hirokazu, YOKOMATSU Muneta

【Course Description】 Natural disasters have low frequencies but high impacts. It is very important to make an integrated risk management plan that consists of various countermeasures such as prevention, mitigation, transfer, and preparedness. This class will present economic approaches to natural disaster risk management and designing appropriate countermeasures.

【Grading】

【Course Goals】

【Course Topics】

Theme	<small>Class number of times</small>	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Disaster Risk Management

災害リスク管理論

【Code】 10X333 【Course Year】 Doctor Course 【Term】 1st term 【Class day & Period】 Wed 4th

【Location】 C1-171 【Credits】 2 【Restriction】 【Lecture Form(s)】 Lecture 【Language】 English

【Instructor】 TATANO Hirokazu, YOKOMATSU Muneta

【Course Description】 Natural disasters have low frequencies but high impacts. It is very important to make an integrated risk management plan that consists of various countermeasures such as prevention, mitigation, transfer, and preparedness. This class will present economic approaches to natural disaster risk management and designing appropriate countermeasures.

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Lectures in Disaster Risk Management 1

災害リスク管理学各論 1

【Code】10X335 【Course Year】 【Term】1st term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Lectures in Disaster Risk Management 2

災害リスク管理学各論 2

【Code】10X337 【Course Year】 【Term】2nd term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	<small>Class number of times</small>	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

人間安全保障工学インターシップ

【Code】10X339 【Course Year】 【Term】1st+2nd term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Advanced Capstone Project

アドバンスド・キャップストーン・プロジェクト

【Code】10X341 【Course Year】 【Term】1st+2nd term 【Class day & Period】 【Location】 【Credits】 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

工学研究科シラバス 2010 年度版
([E] Interdisciplinary Engineering Course Program (3yr Course))
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2010 年 4 月 1 日発行 (非売品)

編集者 京都大学工学部教務課
発行所 京都大学工学研究科
〒 615-8530 京都市西京区京都大学桂

デザイン 工学研究科附属情報センター

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- ・ [A] Common Subjects of Graduate School of Engineering
- ・ [B] Master's Program
- ・ [C] Interdisciplinary Engineering Course Program (5yr Course)
- ・ [D] Advanced Engineering Course Program (5yr Course)
- ・ [E] Interdisciplinary Engineering Course Program (3yr Course)
- ・ [F] Advanced Engineering Course Program (3yr Course)
- ・ オンライン版 <http://www.t.kyoto-u.ac.jp/syllabus-gs/>

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