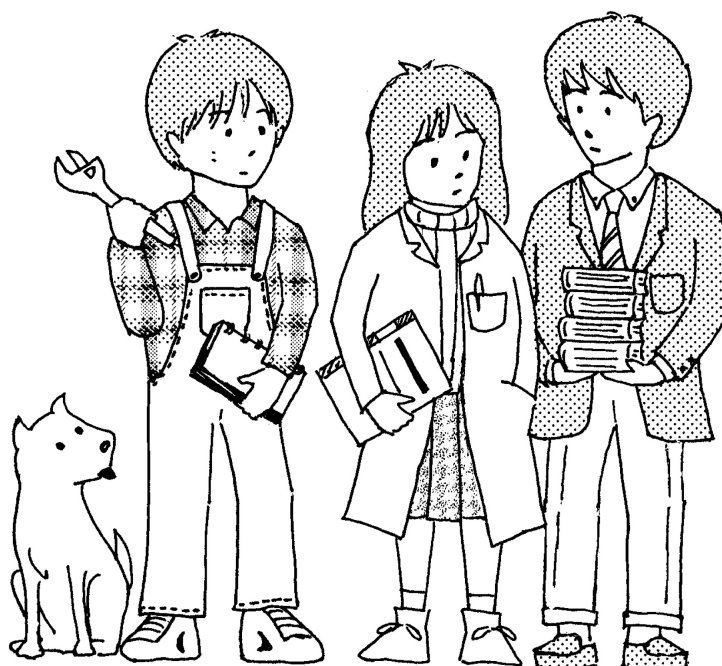


SYLLABUS

2014

[A] Common Subjects of Graduate School of Engineering



Kyoto University, Graduate School of Engineering

[A] Common Subjects of Graduate School of Engineering

Common Subject

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Exercise in Practical Scientific English

実践的科学英語演習

【Code】 10i045 【Course Year】 Master and Doctor Course 【Term】 1st term 【Class day & Period】

【Location】 A2-304 【Credits】 1 【Restriction】 【Lecture Form(s)】 Seminar 【Language】 English

【Instructor】 Masayuki Nishi etc

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
	1	
	2	
	1	
	1	
	2	
	3	
	1	
	3	
	1	

【Textbook】 No textbook is required.

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】 <http://www.glc.t.kyoto-u.ac.jp/ja/study/grad/10d040>

【Additional Information】

Exercise in Practical Scientific English

实践的科学英語演習

【Code】 10i046 【Course Year】 Master and Doctor Course 【Term】 2nd term 【Class day & Period】 Tue 5th

【Location】 Seminar Room at Cluster B, Katsura campus 【Credits】 1

【Restriction】 The number of students might be limited if too many students will get enrolled. 【Lecture Form(s)】 Seminar and Exercise

【Language】 English 【Instructor】 Juha Lintuluoto

【Course Description】 This exercise offers a highly interactive science and technology communication course in English for all Engineering Graduate School students regardless on departments.

With the role of science and technology in society becoming increasingly important, there is a need for the next generation of engineers to develop enhanced scientific and technical communication skills. The present course offers learning fundamental communication skills, under the topics in two main areas: risk communication in industry and practices in scientific and technical communication.

The topic on risk communication in industry considers guidelines and techniques of risk communication from the industry's viewpoint. Each lesson contains interactive group work. As a final exercise, a simulated news conference concerning an industrial hazard explanation from the industry's perspective will be undertaken as a group work task.

The section on practices in scientific and technical communication will first briefly review the oral and written presentation rules and etiquette.

This section also contains professional oral and written reporting exercises based on each student's own scientific background, as well as debating practices on relevant topics.

【Grading】 Students who want to get enrolled in this course are requested to attend on the first lecture of October 7th.

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
Part I: Risk		
Communication in Industry	Lect.1	Introduction & Effectively Communicating Risk Information
	Lect.2	Risk Communication: Actions vs. Words
	Lect.3	Guidelines for Presenting and Explaining Risk-Related Numbers and Statistics
	Lect.4	Guidelines for Providing and Explaining Risk Comparisons
	Lect.5	Concrete Examples of Risk Comparisons
	Lect.6&7	Simulated Conference about Industrial Hazard Explanation (Group Work)
Part II: Practices in		
Scientific and Technical Communication	Lect.1	Fundamental Technical and Scientific Communication Skills
	Lect.2	Student Presentations and Questioning I, Scientific Report I
	Lect.3	Student Presentations and Questioning I, Scientific Report I
	Lect.4	Debate I, Results and Analysis
	Lect.5	Debate II, Results and Analysis
	Lect.6	Student Presentations and Questioning II, Scientific Report II
	Lect.7	Student Presentations and Questioning II, Scientific Report II

【Textbook】 We will let you know, if necessary.

【Textbook(supplemental)】 We will let you know, if necessary.

【Prerequisite(s)】 Note:

-Highly interactive lessons (discussion), Small group working method

-This course is held in English.

【Web Sites】 None

【Additional Information】 The Graduate school of Engineering offers, this year, the course “ Exercise in International Science and Technology Communication ” for all graduate students as follows. Students who want to get enrolled in this course are requested to attend on the first lecture of October 3rd.

This lecture contains intensive interactive group works in English, so the number of students might be limited if too many students will get enrolled. Students are also requested to check in advance whether the credit of this course is counted as the unit for graduation requirement at department level.

Priority will be given for the foreign students of the Industry-Academic Global Engineering Human Resources Development Program, and the number of enrollment will be limited.

Advanced Modern Science and Technology (English lecture)

現代科学技術特論 (英語科目)

【Code】10K005 【Course Year】 【Term】2nd term 【Class day & Period】Thu 5th 【Location】A2-308 【Credits】2

【Restriction】Special Auditors, Special research Students, Graduate School Students (inc. International Course Students) 【Lecture Form(s)】Relay Lecture 【Language】English 【Instructor】

【Course Description】Engineering/Engineers have been expected to fulfill key roles among social issues and others, such as energy, environment and resource. This class introduces cutting edge science and technologies from their backgrounds, research and development, to problems for the practical applications. In addition to the understanding of each technology, the attendances learn the importance for engineers to have multidisciplinary mind and understand the significance of engineering to realize sustainable development. Group discussions will be done for further understanding of the topics of the course.

【Grading】In order to obtain two credits, students must attend at least ten lectures, and at least five of the submitted reports must be evaluated as "passed" by the lecturers. Each report should be submitted to the assigned lecturer within two weeks after his/her lecture. Report must be written in English.

NOTE: Reports are NOT acceptable from those who do not attend the lecture.

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
Oct.02 What is catalysts and catalysis? " Fundamentals and applications " Kentaro Teramura	1	The purpose of this lecture is to understand fundamentals and applications of catalysts and catalysis on the basis of thermodynamics and kinetics. An overview of fundamental heterogeneous catalysis will first be introduced including history of catalysis. This course also focuses on reaction mechanisms of typical catalysis. The recent topics on catalysis will be covered in this lecture.
Oct.09 Exploration of Radiation Belts by Space Radio Engineering Yoshiharu Omura	1	Radiation belts of energetic particles are formed around magnetized planets such as the Earth, and they have been studied extensively by spacecraft missions and computer simulations for better understanding and utilization of the space plasma environment. We review historical development of space radio engineering and current understanding of radiation belt dynamics.
Oct.16 Is a Supercritical Fluid a Good Choice for Developing Environmentally-benign Processes? Masahiro Oshima	1	A supercritical fluid is a state of matter, where the matter is the typical diffusivity like a gas but it has the typical density of a liquid. Because of the liquid like density and the gas like diffusivity of SCF, SCF has been tested in several fields of application as an environmentally benign solvent and media. In this talk, we introduce a supercritical CO ₂ assisted environmentally-benign plastic plating process and discuss about the Devil River, the Valley of Death, the Darwinian Sea that we have experienced through the process development.
Oct.23 Nanocellular Foam: Thermal Insulation is a Passive but Effective way of Energy Saving Masahiro Oshima	1	Thermal insulation is a modest (passive) but steady (effective) remedy of energy saving. The insulation technique still needs advancements. In this class, starting with the principle of heat transfer, the state of the arts of thermal materials is given. Nanocellular foam and xerogel are focused as the future insulation materials. Furthermore, we will discuss what the best energy plan for our society.
Oct.30 Role of neutron scattering for future materials Toshiharu Fukunaga	1	Neutron scattering gives detailed information about atomic structure and dynamics, that is, where atoms are and how they are moving. Since the properties of materials strongly depend on the atomic structure, the structure observation and analysis of energy and structural materials will be presented in this lecture.
Nov.06 Advanced Material Application: Application of High Performance Alloy with Self Diagnosis to Structural Systems Yoshio Kaneko	1	A lecture is given focusing on the applicability of a structural health monitoring system employing TRIP (Transformation Induced Plasticity) steels.
Nov.13 Genome sequences, what do they say and how can we use them? Haruyuki Atomi	1	Owing to the revolutionary advances in DNA sequencing technology, the complete genome sequences of a large number of organisms are now available. Here we will discuss what these genome sequences tell us and how we can use them to further increase our understanding of life.
Nov.20 Micro Electro Mechanical Systems (MEMS) Toshiyuki Tsuchiya	1	A brief introduction of MEMS will be presented first. Then some devices and applications, which tackle complex global challenges in the modern society, will be introduced to discuss the possibility of MEMS in a future.
Nov.27 Polymer Synthesis beyond the 21st Century: Precision Polymerizations and Novel Polymeric Materials Mitsuo Sawamoto	1	We are now in the "Polymer Age", where synthetic polymer materials are indispensable in the modern human life: healthy, safe, comfortable, and sustainable. A critical challenge herein is to develop "precision polymerization", polymer-forming reactions that provide polymers of well-defined structures and designed functions. Given these backgrounds, this lecture will overview the following subjects: (a) What polymers are; (b) How to synthesize polymers; (c) How and where polymeric materials work and function; (d) Precision polymer synthesis; and (e) The future of polymeric materials.
Dec.04 Solid State Lighting based on Light Emitting Diodes Mitsuru Funato	1	Replacing conventional light sources such as fluorescent lamps with LED-based solid state lighting is a social request to reduce the energy consumption and environmental load. This lecture discusses fundamental issues, present status, and future prospects of the LED-based technology.
Dec.11 Modern techniques for material characterization Jiro Matsuo	1	Overview of modern techniques for material characterization is given with basic principles and practical applications. Impacts on the life of the people of characterization techniques are also included.
Dec.18 Solar energy conversion using semiconductor photocatalysts Ryu Abe	1	The development of a clean and renewable energy carrier that does not utilize fossil fuels is a great technological challenge. Photocatalytic water splitting using semiconductor materials has attracted considerable interest due to its potential to cleanly produce H ₂ from water by utilizing abundant solar light. In the present lecture, the basis, history, and the recent progress in photocatalytic water splitting will be introduced for discussion.
Jan.08 Fuel Cell Technology and Related Issues Hiroshi Iwai	1	This lecture is an introduction to fuel cell technology. Discussions are to be developed on the characteristics of different fuel cell types and their suitability for different applications. Particular attention is paid to the solid oxide fuel cell which shows the highest power generation efficiency among the various types of fuel cells.
Jan.15 Micro- and Nano-scale Separations in Analytical Chemistry Koji Otsuka	1	Micro- and nano-scale high performance separation techniques, including capillary electrophoresis and microchip electrophoresis, will be discussed in terms of both fundamental characteristics and applications.

【Textbook】None

【Textbook(supplemental)】

【Prerequisite(s)】Oct.23: Each student is requested to consider and summarize your own idea of the best energy strategy for our future.

【Web Sites】

【Additional Information】

Introduction to Advanced Material Science and Technology (English lecture)

先端マテリアルサイエンス通論 (英語科目)

【Code】10K001 【Course Year】Master and Doctor Course 【Term】1st term 【Class day & Period】Friday,4th-5th
【Location】KatsuraA2-308,Yoshida Research Bldg.No4,-Room3(Distance lectures) 【Credits】2

【Restriction】No Restriction 【Lecture Form(s)】Relay Lecture 【Language】English 【Instructor】

【Course Description】The various technologies used in the field of material science serve as bases for so-called "high technologies", and, in turn, the high technologies develop material science. These relate to each other very closely and contribute to the development of modern industries. In this class, recent progresses in material science are briefly introduced, along with selected current topics on new biomaterials, nuclear engineering materials, new metal materials and natural raw materials. The methods of material analysis and future developments in material science are also discussed.

【Grading】In order to obtain two credits, students must attend at least ten lectures, and at least five of the submitted reports must be evaluated as " passed " by each lecturer. Each report should be submitted to the lecturer within two weeks after his/her lecture. Report must be written in English.

NOTE: Reports are NOT acceptable from those who do not attend the lecture.

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
4/11 Itsuyiro KAKEYA	1	High-temperature superconductor as a playground for the macroscopic quantum phenomena
4/18 Haruyuki ATOMI	1	Hyperthermophiles and their thermostable biomolecules
4/25 Hironori KAJI	1	Organic Devices
5/2 Tsuyoshi KOGA	2	Rheology Control by Associating Polymers (14:45-16:15, 16:30-18:00)
5/9 Nobuhiro TSUJI	1	Nanostructure Control in Structural Metallic Materials
5/16 Jun TERAO	1	-Conjugated Molecular Wire Directed toward Molecular Electronics Materials
5/23 Yoshiaki NAKAO	1	Modern Organic Synthesis for Material Science
5/30 Katsuhisa TANAKA	1	Oxide Magnetic Materials
6/6 Kuniaki MURASE	1	Electrodeposition and Electroless Deposition for Materials Processing (15:15-16:45)
6/13 Kazuyuki HIRAO	1	Photonic Materials
6/20 Hiroshi KAGEYAMA	1	Superconducting Materials
6/27 Toshikazu TAKIGAWA	1	Stress-Diffusion Coupling in Polymer Gels
7/4 Shinji HASEBE	1	Production of Advanced Materials by Micro Chemical Plants

【Textbook】None

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】Check the notice on the bulletin board.

Professional Scientific Presentation Exercises (English lecture)

科学技術者のためのプレゼンテーション演習 (英語科目)

【Code】10i041 【Course Year】Doctor Course 【Term】1st term 【Class day & Period】Wed 5th

【Location】B-Cluster 2F Seminar Room 【Credits】1

【Restriction】The number of students might be limited if too many students will get enrolled.

【Lecture Form(s)】Seminar 【Language】English 【Instructor】Juha Lintuluoto

【Course Description】It is imperative for future engineers to be able to communicate and deliver effectively scientific information to large variety of audiences. This skill enables engineers to share and absorb information to more extended audiences, and facilitates success in selling ideas and products, publishing and team working. The purpose of this course is to teach the basic rules needed for successful professional scientific presentation, both orally and written. The course also prepares students to deliver scientific information presentations to wide audiences. The course is consisted of excessive exercises, of which the student should complete seven (7) tasks. The course holds 3-4 tasks for oral presentation exercises, and 3-4 tasks for professional scientific writing exercises. The exact number of both exercises is adjusted for each student ' s needs. The course is aimed for doctor course (DC) students, both Japanese and Foreign nationals

【Grading】Reports, class activity, presentation

【Course Goals】This course is aimed to foster engineering students ' scientific presentation skills. The successfully course completed students will be able to express and present complicated and specific scientific information at more generally understandable level. The students will also be able to pose relevant questions and effectively answer to the wide variety of questions.

【Course Topics】

Theme	Class number of times	Description
		Guidance and Professional presentation rules and etiquette
		Oral presentations & questioning I, Written report I
		Oral presentations & questioning I, Written report I
		Oral presentations & questioning II, Written report II
		Oral presentations & questioning II, Written report II
		Oral presentations & questioning III, Written report III
		Oral presentations & questioning III, Written report III
		Oral presentations & questioning IV, Written report IV
		Oral presentations & questioning IV, Written report IV I
		Course summary and discussion

【Textbook】Course materials will be provided.

【Textbook(supplemental)】Will be informed if necessary.

【Prerequisite(s)】-Fundamental skills about scientific presentation

-Advanced English skills

-Sufficient personal research results

【Web Sites】The web-site will be opened in the home page of the GL education center.

【Additional Information】Students are requested to check in advance whether the credit of this course is counted as the unit for graduation requirement at department level. Course starts at April 9th, and the 1st lesson is repeated on April 16th. The course schedule is irregular. Most classes are biweekly, the detailed schedule is provided at the 1st lecture.

Advanced Engineering and Economy (English lecture)

工学と経済 (上級)(英語科目)

【Code】10i042 【Course Year】Master and Doctor Course 【Term】1st term 【Class day & Period】Thu 5th 【Location】B-Cluster 2F Seminar Room

【Credits】2 【Restriction】The number of students might be limited if too many students will get enrolled.

【Lecture Form(s)】Lectures, Group works&tasks 【Language】English 【Instructor】Juha Lintuluoto

【Course Description】Engineering economics plays central role in any industrial engineering project. For an engineer, it is important to apply the engineering know-how with the economic analysis skills to obtain the best available materials, methods, devices, etc. in the most economical way. This course is aimed to teach engineering students the basic economic methods to manage economically an engineering project. In addition, the report writing on various engineering economic issues prepares to write reports in a professional form. The lab sessions are meant for the verbal skills improvement as well as improvement of analytical thinking. The topics are of current relevant topics Small-group brain-storming method is used. The exercise sessions cover the use of Ms-Excel for various quantitative economic analyses.

【Grading】Final test, reports, class activity

【Course Goals】This course is aimed to strengthen engineering students' skills in economics. The course concept is to teach students selectively those subjects which serve as major tools to solve economic tasks in engineering environment. The reports and lab sessions provide students stimulating and analytical thinking requiring tasks, and presentation skills training is an important part of this course.

【Course Topics】

Theme	Class number of times	Description
Student orientation and Introduction to engineering economy	1	
Cost concepts and design economics	1	
Cost estimation techniques	1	
The time value of money	1	
Evaluating a single project	1	
Comparison and selection among alternatives	1	
Depreciation and income taxes	1	
Price changes and exchange rates	1	
Replacement analysis	1	
Evaluating projects with the benefit-cost ratio method	1	
Breakeven and sensitivity analysis	1	
Probabilistic risk analysis	1	
The capital budgeting process	1	
Decision making considering multiattributes	1	
Final test	1	

Additionally, students will submit five reports during the course on given engineering economy subjects. Also, required are the five lab participations (ca.60 min/each) for each student. Additionally, three exercise sessions (ca.60 min/each), where use of Ms-Excel will be practiced for solving various engineering economy tasks, should be completed

【Textbook】Engineering Economy 15th ed. William G. Sullivan (2011)

【Textbook(supplemental)】Will be informed if necessary.

【Prerequisite(s)】-This course is highly recommended for those who attend " Inter-Engineering -Highly interactive lessons (discussion), Small group working method

【Web Sites】The web-site will be opened in the home page of the GL education center.

【Additional Information】Students are requested to check in advance whether the credits of this course are counted as the units for graduation requirement at department level. The course starts on Apr.10th.

Engineering Project Management (English lecture)

エンジニアリングプロジェクトマネジメント (英語科目)

【Code】 10i047 【Course Year】 Doctor Course 【Term】 1st term 【Class day & Period】 Fri 5th

【Location】 B-Cluster 2F Seminar Room 【Credits】 1

【Restriction】 The number of students might be limited if too many students will get enrolled.

【Lecture Form(s)】 Lectures, Group works&tasks 【Language】 English

【Instructor】 Lintuluoto, Oishi, Takatori, Nishi, Mizuno

【Course Description】 The purpose of this course is to teach the basic skills needed for expressing and initiating ideas, and presenting information in successful international engineering group work. The course provides simulations for students in group managing and decision making in international engineering teams. International teamwork ethics subjects for successful engineering project will be practiced. The course consists of lectures, case studies, the invited lecture from an industry representative and the final examination. Also, a project report exercise is included in this course.

The course is basically designed for doctor course (DC) students, both Japanese and foreign nationals. If place are available they may be given to master course students.

【Grading】 Report, class activity, presentation

【Course Goals】 This course is the pre-course for Engineering Project Management II which will be held in the second semester. Students will learn project management tools, apply project strategies and perform qualitative risk analyses. Also students will learn how to carry out projects with group members from various countries and engineering fields.

【Course Topics】

Theme	Class number of times	Description
	1	Introduction of the class (All)
	1	Project Management I (Lintuluoto)
	1	Project Management II (Lintuluoto)
	1	Management of abroad dispatched project (Mizuno)
	1	Public governance of engineering project (Mizuno)
	1	Cultural aspects in project development (Lintuluoto)
	1	Strategies viewpoints in engineering projects I (Oishi)
	1	Strategies viewpoints in engineering projects II (Oishi)
	1	Engineering project presentation I (Takatori)
	1	Engineering project presentation II (Takatori)
	1	Strategies viewpoints in engineering projects (case study) (Oishi)
	1	EProject risk management I (Nishi)
	1	Project risk management II (Nishi)
	1	Special Lecture from an Industry Representative
	1	

【Textbook】 Course materials will be provided.

【Textbook(supplemental)】

【Prerequisite(s)】 ‘ -This course is recommended for those who later intend to attend “ Engineering Project Management II ” .

-Highly interactive lessons (discussion), Small group work methodologies.

【Web Sites】 The web-site will be opened in the home page of the GL education center.

【Additional Information】 Students are requested to check in advance whether the credit from this course will be accepted as a graduation requirement for their department. The course starts on Apr. 11th.

Engineering Project Management (English lecture)

エンジニアリングプロジェクトマネジメント (英語科目)

【Code】10i048 【Course Year】Doctor Course 【Term】2nd term 【Class day & Period】Fri 5th

【Location】B-Cluster 2F Seminar Room 【Credits】1 【Restriction】Student number will be limited.

【Lecture Form(s)】Seminar 【Language】English 【Instructor】Lintuluoto, Mizuno, Oishi, Takatori, Nishi

【Course Description】In this course, students will apply the engineering know-how and the skills of management, group leadership, and international communication which they learned in the course of "Engineering Project Management I" to build and carry out a virtual inter-engineering project. This course provides a forum where students' team-plan based on ideas and theories, decision making, and leadership should produce realistic engineering project outcomes. The course consists of intensive group work and a few intermediate discussions. The course will be held 6 weeks for group work, and two (2) intermediate discussions, project presentation to a wide audience, and a written report will be required.

【Grading】Report, class activity, presentation

【Course Goals】This course prepares engineering students to work with other engineers within a large international engineering project. In particular this course will focus on leadership and management of projects along with applied engineering skills where the students learn various compromises, co-operation, responsibility, and ethics.

【Course Topics】

Theme	Class number of times	Description
Guidance		
Group work I		
Group work II		
Intermediate discussion I		
Group work III		
Group work IV		
Intermediate discussion II		
Group work V		
Group work VI		
Project presentation and discussion		
		Each project team may freely schedule the group work within the given time frame. In addition to "Intermediate discussion" sessions, the course instructors are available if any such need arises.

【Textbook】Course materials will be provided.

【Textbook(supplemental)】Will be informed if necessary.

【Prerequisite(s)】‘-Complete the course "Engineering Project Management I" in the 1st term.

-Attendance on "Advanced Engineering Economics" course in the 1st term is strongly recommended.

-Fundamental skills about group leading and communication, scientific presentation.

【Web Sites】The web-site will be opened in the home page of the GL education center.

【Additional Information】Students are requested to check in advance whether the credit from this course will be accepted as a graduation requirement for their department.

Internship

産学連携研究型インターンシップ

【Code】10i009 【Course Year】Master and Doctor Course 【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】

Advanced Japanese

日本語上級講座

【Code】 10i029 【Course Year】 Master and Doctor Course 【Term】 1st+2nd term

【Class day & Period】 Fri 3rd 【Location】 B-Cluster 2F Seminar Room 【Credits】 2 【Restriction】 No Restriction

【Lecture Form(s)】 Lecture 【Language】 Japanese 【Instructor】 Lect. Sawanishi

【Course Description】 See "Course Descriptions of Japanese Language Classes and International Communication Classes" published by International Center Kyoto University.

<http://www.ryugaku.kyoto-u.ac.jp/japanese/japanese-classes/>

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】 See "Course Descriptions of Japanese Language Classes and International Communication Classes" published by International Center Kyoto University.

<http://www.ryugaku.kyoto-u.ac.jp/japanese/japanese-classes/>

Intermediate Japanese I

日本語中級講座

【Code】 10i031 【Course Year】 Master and Doctor Course 【Term】 1st+2nd term

【Class day & Period】 Fri 3rd

【Location】 See "Course Descriptions of Japanese Language Classes and International Communication Classes" published by International Center Kyoto University.

【Credits】 2 【Restriction】 No Restriction 【Lecture Form(s)】 Lecture 【Language】 Japanese

【Instructor】 Lect. Shimohashi

【Course Description】 See "Course Descriptions of Japanese Language Classes and International Communication Classes" published by International Center Kyoto University.

<http://www.ryugaku.kyoto-u.ac.jp/japanese/japanese-classes/>

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】 See "Course Descriptions of Japanese Language Classes and International Communication Classes" published by International Center Kyoto University.

<http://www.ryugaku.kyoto-u.ac.jp/japanese/japanese-classes/>

Intermediate Japanese II

日本語中級講座

【Code】 10i033 【Course Year】 Master and Doctor Course 【Term】 1st+2nd term

【Class day & Period】 Thu 3rd

【Location】 See "Course Descriptions of Japanese Language Classes and International Communication Classes" published by International Center Kyoto University.

【Credits】 2 【Restriction】 No Restriction 【Lecture Form(s)】 Lecture 【Language】 Japanese

【Instructor】 Prof. Palihawadana Ruchira

【Course Description】 See "Course Descriptions of Japanese Language Classes and International Communication Classes" published by International Center Kyoto University.

<http://www.ryugaku.kyoto-u.ac.jp/japanese/japanese-classes/>

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】 See "Course Descriptions of Japanese Language Classes and International Communication Classes" published by International Center Kyoto University.

<http://www.ryugaku.kyoto-u.ac.jp/japanese/japanese-classes/>

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

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