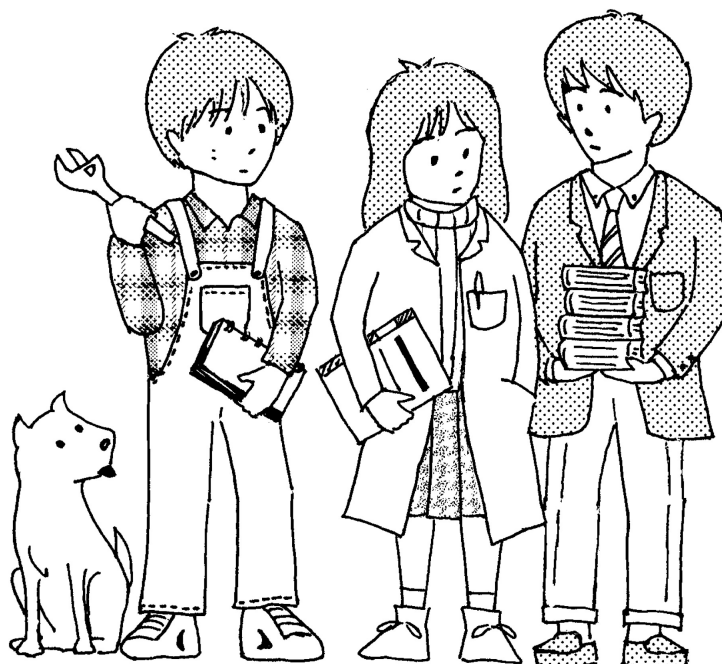


SYLLABUS

2013

Common Subjects of Faculty of Engineering



Kyoto University, Faculty of Engineering

Common Subjects of Faculty of Engineering

Common Subjects of Faculty of Engineering

21080 Introduction to Engineering	1
21050 Engineering Ethics	2
22020 Exercise in English of Science and Technology(in English)	3
22110 Engineering and Ecology(in English)	4
22210 Engineering and Economy(in English)	5
24010 Global Leadership Seminar I	6
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Introduction to Engineering

工学序論

【Code】 21080 【Course Year】 1st year 【Term】 【Class day & Period】 【Location】 【Credits】 1

【Restriction】 No 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】

Engineering Ethics

工学倫理

【Code】 21050 【Course Year】 4th year 【Term】 1st term 【Class day & Period】 【Location】 【Credits】 2

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

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
	1	
	1	
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【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Exercise in English of Science and Technology(in English)

科学技術英語演習

【Code】22020 【Course Year】2nd year 【Term】 【Class day & Period】 【Location】 【Credits】1 【Restriction】

【Lecture Form(s)】 【Language】 【Instructor】 Kenji Wada etc.

【Course Description】

【Grading】

【Course Goals】

【Course Topics】

Theme	<small>Class number of times</small>	Description
Guidance	1	Orientation of the course.
Net Academy Lessons	2-5	
Speaking Test	6	
Discussion Classes	7-14	
Achievement Test	15	

【Textbook】

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

【Additional Information】

Engineering and Ecology(in English)

工学とエコロジー (英語)

【Code】22110 【Course Year】 【Term】1st term 【Class day & Period】 【Location】 【Credits】2 【Restriction】 【Lecture Form(s)】
 【Language】English 【Instructor】

【Course Description】The purpose of this course is to teach global ecological and environmental topics from an engineer viewpoint. The course especially contains such global ecological and environmental topics where engineering can provide solutions for sustainability. The course is consisted of lectures and additional exercises, of which the student should complete five (5) written short reports and five (5) 60 minutes laboratory session attendances. The laboratory sessions are held weekly after the lecture, and consist of interactive group work tasks. Laboratory sessions are held weekly from 18 to 19 o'clock.

The course is aimed for both Japanese and Foreign nationals.

The course starts on April 16th, 2013.

【Grading】Test, reports, laboratory performance.

【Course Goals】This course will provide tasks for engineering students to become aware of the relationships between engineering and various aspects of environmental issues. Students will also learn how to apply engineering skills to various environmental and ecological issues. The course prepares the students to be able to write engineering related ecological and environmental topics in English as well as verbally express themselves of these subjects.

【Course Topics】

Theme	Class number of times	Description
Student orientation, and Basic issues and critical thinking about the environment	1	
Environment and human population, ecosystems and communities	2	
Succession and restoration	3	
Biogeography	4	
Productivity and energy flow	5	
World food supply	6	
Effects of agriculture	7	
Basics of energy, fossil fuels	8	
Alternative - and nuclear energies and environment	9	
Water supply and use	10	
Water management, pollution and treatment	11	
Air pollution, Environmental economics	12	
Waste management, environmental planning	13	
Final test	14	

【Textbook】Botkin, Keller; Environmental Science, 8th Ed. 2012.

【Textbook(supplemental)】None

【Prerequisite(s)】Note:

- Interactive lessons (discussion), Small group working method
- This course is held in English.

【Web Sites】None

【Additional Information】If you have any questions or need further information, feel free to contact at 090aglobal@mail2.adm.kyoto-u.ac.jp.

Engineering and Economy(in English)

工学と経済（英語）

【Code】22210 【Course Year】 【Term】2nd term 【Class day & Period】 【Location】 【Credits】2 【Restriction】 【Lecture Form(s)】

【Language】English 【Instructor】

【Course Description】 The purpose of this course is to teach economy from an engineer viewpoint. The course especially contains such economic topics which engineer can use to solve practical engineering economy problems. The course is consisted of lectures and additional exercises, of which the student should complete five (5) written short reports and five (5) 60 minutes laboratory session attendances. The laboratory sessions are held weekly after the lecture, and consist of interactive group work tasks. Laboratory sessions are held weekly from 18 to 19 o'clock.// The course is aimed for both Japanese and Foreign nationals.// The course starts on October 8th.

【Grading】 Test, reports, laboratory performance.

【Course Goals】 This course will provide tasks for engineering students to be able to understand relationships between engineering and engineering economy. Students will learn solving economic problems related to engineering project at various levels. The course also prepares the students to write engineering related economic topics in English as well as verbally express themselves of these subjects.

【Course Topics】

Theme	Class number of times	Description
Student orientation, Introduction to engineering economy	1	
Cost concept	2	
Design economics	3	
Cost estimation techniques I	4	
Cost estimation techniques II	5	
The time value of money I	6	
The time value of money II	7	
The time value of money III	8	
Evaluation of a single project I	9	
Evaluation of a single project II	10	
Comparison and selection among alternatives I	11	
Comparison and selection among alternatives II	12	
Income taxes and depreciation	13	
Final test	14	

【Textbook】 Sullivan, Wicks, Koelling; Engineering Economy, 15th Ed. 2012 , Chapters 1-7.

【Textbook(supplemental)】

【Prerequisite(s)】 Note:

- Interactive lessons (discussion), Small group working method
- This course is held in English.

【Web Sites】 None

【Additional Information】 If you have any questions or need further information, feel free to contact at 090aglobal@mail2.adm.kyoto-u.ac.jp.

Global Leadership Seminar I

G L セミナー (企業調査研究)

【Code】24010 【Course Year】 【Term】 【Class day & Period】 【Location】 【Credits】1 【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】

Global Leadership Seminar II

G L セミナー (課題解決演習)

【Code】25010 【Course Year】 【Term】 【Class day & Period】 【Location】 【Credits】1 【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】

工学部シラバス 2013 年度版
(Common Subjects of Faculty of Engineering)
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デザイン 工学研究科附属情報センター

工学部シラバス 2013 年度版

- ・ Common Subjects of Faculty of Engineering
- ・ [A] Global Engineering
- ・ [B] Architecture
- ・ [C] Engineering Science
- ・ [D] Electrical and Electronic Engineering
- ・ [E] Informatics and Mathematical Science
- ・ [F] Industrial Chemistry
- ・ オンライン版 <http://www.t.kyoto-u.ac.jp/syllabus-s/>

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