

# SYLLABUS

2013

[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 &amp; Period】

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

【Instructor】 Kim Sunmin, Kenji Wada. etc

【Course Description】 This course is designed to develop basic communication and presentation skills in English required for scientific and industrial career prospects.

【Grading】 Attendance 60%, midterm reports 20%, final report 20%. The final report must be submitted by the deadline date.

【Course Goals】 This course is designed to develop basic communication and presentation skills in English required for scientific and industrial career prospects.

## 【Course Topics】

Theme	Class number of times	Description
Introduction	2	Course Guidance, etc.
Exercise-1	1	Definition of technical writing 3C in technical writing Weaknesses of Japanese writers Good examples and bad examples
Exercise-2	1	Punctuation Presentation skills 1 -organization
Exercise-3	1	Organizing your thoughts for the title and abstract Presentation skills 2 ?Visual aspects
Exercise-4	1	Presenting the background of your research Presentation skills 3 ?Oral Aspects
Exercise-5	1	Describing how you did your research Presentation skills 4 ?Physical Aspects
Exercise-6	1	Presenting what you observed Presentation Practice
Exercise-7	1	Placing your findings in the field Presentation Practice
Exercise-8	1	Expressing thanks and listing references Presentation practice
Exercise-9	1	Writing your proposal Presentation practice
Exercise-10	1	Presentation practice Reviews & Feedbacks Evaluation
Presentation	2	Current situation of studying abroad, etc.
Wrap-up lecture	1	Achievement Assessment

【Textbook】 No textbook is required.

【Textbook(supplemental)】

【Prerequisite(s)】

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

【Additional Information】

## Exercise in Practical Scientific English

### 实践的科学英语演習

【Code】 10i046 【Course Year】 Master and Doctor Course 【Term】 2nd term 【Class day & Period】 Thu 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 3rd.

【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.

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

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
	2	Advanced Beam Processes and Characterization Technique for Nanotechnology//J. Matsuo
	2	Microreactor TechnologyforProductionofHighFunctional Chemical Materials//K. Mae
	1	Nano-optical Spectroscopy/Microscopy:Applications in Material Science//H. Aoki
	2	Rheology Control by Associating Polymers//T. Koga
	2	Hyperthermophiles and their thermostable biomolecules//H. Atomi
	1	ISO Standards in Analytical Chemistry//J. Kawai
	1	Advanced Polymer Foam Technology//M. Ohshima
	1	Photonic Materials//K. Hirao
	1	Nanostructure Control in Structural MetallicMaterials//N. Tsuji
	1	Electrodeposition and Electroless Deposition for Materials Processing//N. Tsuji
		Confirmation of study achievement

【Textbook】 None

【Textbook(supplemental)】

【Prerequisite(s)】

【Web Sites】

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

# New Engineering Materials, Adv. ( English lecture )

## 新工業素材特論 ( 英語科目 )

【Code】10K004 【Course Year】Master and Doctor Course 【Term】2nd term 【Class day & Period】Thu 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】Outline: New materials are necessary for the advancement of high technologies, but in order to develop these new materials for practical applications, a number of problems must be solved. In this course, the problems encountered in the fields of chemical engineering, electrical / electronic engineering, mechanical engineering and civil engineering are discussed. Discussions are also held on natural resources, and how computers are being used in the development of new materials. Lectures are given in English.

【Grading】Credit: The evaluation of a student ' s work will be given on a pass / fail basis, based on his / her attendance and reports, not on examinations.(1) Attending the class 10 times or more and submitting at least 5 reports with passing marks is required to receive 2 credits.(2) A report assignment will be given by every lecturer and must be submitted within 2 weeks from the end of the lecture.(3) A student ' s report on any lecture from which he / she is absent will not be accepted.

【Course Goals】

【Course Topics】

Theme	Class number of times	Description
Improving Sanitation and Resource Recovery in both Developing and Developed Countries (Yoshihisa SHIMIZU)	1	先進国および発展途上国における公衆衛生と再資源化の改善
Soils Recovered from Disaster Debris (Takeshi KATSUMI)	1	災害廃棄物の処理と分別土砂の有効利用
Separation Analyses in Micro- and Nano-scale (Koji OTSUKA)	1	マイクロ・ナノスケールの分離分析
Polymer Synthesis beyond the 21st Century: Precision Polymerizations and Novel Polymeric Materials (Mitsuo SAWAMOTO)	1	21世紀からの高分子精密合成
Solid State Lighting based on Light Emitting Diodes (Yoichi KAWAKAMI)	1	発光ダイオードをベースとした固体照明
Material Properties of Fiber Reinforced Cementitious Composites and Applicability to Structures (Yoshio KANEKO)	1	繊維補強セメント系複合材料の材料特性と構造物への応用
Materials in Micro Electro Mechanical Systems (MEMS) (Toshiyuki TSUCHIYA)	1	MEMS における材料
Composite Materials: Smart, Lightweight and Strong Materials (Masaki HOJO)	2	複合材料：賢く軽くて強い材料
Inorganic New Materials (Koichi EGUCHI)	1	新無機素材論
Structural biochemistry of proteins (Masahiro SHIRAKAWA)	1	タンパク質の構造生物化学
Semiconductor Materials and Devices (Tsunenobu KIMOTO)	2	半導体材料とデバイス
High Temperature Superconductivity and Its Application to Electronics (Itsuhiro KAKEYA)	1	高温超伝導とそのエレクトロニクス応用

【Textbook】

【Textbook(supplemental)】Class handouts

【Prerequisite(s)】

【Web Sites】

【Additional Information】

**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 &amp; 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 10th, and the 1st lesson is repeated on April 17th. 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.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】 10i047 【Course Year】 Doctor Course 【Term】 1st term 【Class day &amp; 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&amp;tasks 【Language】 English

【Instructor】 Lintuluoto, Kojima, Oishi, Takatori

【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	Special Lecture from an Industry Representative (Kojima)
	1	Project Management II (Lintuluoto)
	1	Leadership skills (Kojima)
	1	Special Lecture from an Industry Representative (Kojima)
	1	Leadership skills in group work (Kojima)
	1	Strategies viewpoints in Engineering Projects I (Oishi)
	1	Cultural aspects in project development (Lintuluoto)
	1	Strategies viewpoints in Engineering Projects II (Oishi)
	1	Strategies viewpoints in Engineering Projects (case study) (Oishi)
	1	Engineering project communication I (Takatori)
	1	Engineering project communication II (Takatori)
	1	Special Lecture from an Industry Representative
	1	

【Textbook】 Course materials will be provided.

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

【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. 12th.

**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 &amp; 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 , Kojima , Oishi, Takatori

【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 &amp; 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 &amp; 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 &amp; 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 &amp; 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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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

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デザイン 工学研究科附属情報センター

## 工学研究科シラバス 2013 年度版

- ・ [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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