

Oyama College				Advanced Course of General Engineering				Year		2024					
Department Goals															
Course Category		Course Title	Course Code	Credit Type	Credits	Class Hours per Week								Instructor	Division in Learning
						Adv. 1st Y				Adv. 2nd Y					
						1st		2nd		1st		2nd			
						1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q		
General	Compulsory	Applied English I	0005	Academic Credit	2	2								YOSHIMURA Rie	
General	Elective	Applied English II	0006	Academic Credit	2			2						YOSHIMURA Rie	
General	Elective	Outline of Japanese language	0007	Academic Credit	2	2								SHIBATA Miyuki	
Specialized	Elective	Applied Mathematics for Structural Mechanics	0001	Academic Credit	2			2						OHWA Seira	
	Specialized	環境技術	0002	Academic Credit	2	2								SUZUKI Shin-nosuke, OSHIMA Ryuichi, SATO Atsushi, KOBAYASHI Yasuhiro, TANAKA Takakuni, NISHIKI Kei, Xiaoyang Li, OHWA Seira, FUMINO Hikaru	
Specialized	Compulsory	経営工学	0003	Academic Credit	2	2								SUZUKI Shin-nosuke	
	Specialized	System Design	0004	Academic Credit	2	2								IZAWA Satoru, KAMIYAMA Tetsu, AMAGAI Kenji, NOHARA Kazuhiro, YAGI Hitoshi, HANADA Yasuyuki, HUKUDA Takashi	
Specialized	Elective	Complex Analysis	0008	Academic Credit	2	2								NAKAGAWA Hidenori, OKAZAKI Masao, OKADA So	

Sp eci ali ze d	El ec tiv e	Applied Analysis	0009	Acade mic Credit	2	<table><tr><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td></tr></table>			2					NAGA MINE Takan ori,OK ADA So	
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Sp eci ali ze d	El ec tiv e	Mathematics for Physical Chemistry and Chemical Engineering	0010	Acade mic Credit	2	<table><tr><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	2							SAKAI Hirosh i,KASH IMA Keita	
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Sp eci ali ze d	El ec tiv e	Applied Science	0011	Acade mic Credit	2	<table><tr><td></td><td></td><td>2</td><td></td><td></td><td></td><td></td></tr></table>			2					MASU YAMA Tomoy a	
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Sp eci ali ze d	Co m pu lso ry	特別研究 I	0012	Acade mic Credit	6	<table><tr><td>3</td><td></td><td>3</td><td></td><td></td><td></td><td></td></tr></table>	3		3					SAKAI Hirosh i,RAH OK SAM ANN,S UZUKI Shin- nosuk e	
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Sp eci ali ze d	Co m pu lso ry	実務研修 I	0013	Acade mic Credit	2	<table><tr><td>Intensive</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Intensive							SAKAI Hirosh i,RAH OK SAM ANN,S UZUKI Shin- nosuk e	
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Sp eci ali ze d	El ec tiv e	実務研修Ⅲ	0014	Acade mic Credit	2	<table><tr><td>Intensive</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Intensive							SAKAI Hirosh i,RAH OK SAM ANN,S UZUKI Shin- nosuk e	
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Sp eci ali ze d	El ec tiv e	実務研修Ⅳ	0015	Acade mic Credit	2	<table><tr><td>Intensive</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Intensive							SAKAI Hirosh i,RAH OK SAM ANN,S UZUKI Shin- nosuk e	
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Sp eci ali ze d	El ec tiv e	実務研修Ⅴ	0016	Acade mic Credit	2	<table><tr><td>Intensive</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Intensive							SAKAI Hirosh i,RAH OK SAM ANN,S UZUKI Shin- nosuk e	
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Sp eci ali ze d	El ec tiv e	実務研修Ⅵ	0017	Acade mic Credit	2	<table><tr><td>Intensive</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Intensive							SAKAI Hirosh i,RAH OK SAM ANN,S UZUKI Shin- nosuk e	
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Sp eci ali ze d	El ec tiv e	実務研修Ⅱ	0018	Acade mic Credit	2	<table><tr><td>Intensive</td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	Intensive							SAKAI Hirosh i,RAH OK SAM ANN,S UZUKI Shin- nosuk e	
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General	Compulsory	Ethics of Engineers	0014	Academic Credit	2	<table><tr><td></td><td></td><td></td><td></td><td>2</td><td></td><td></td></tr></table>											2			UENO Tetsu, TAKEUCHI Kosei	
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Specialized	Compulsory	Industrial Property	0015	Academic Credit	2	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td></tr></table>													2		
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Specialized	Compulsory	プロジェクトデザイン	0016	Academic Credit	2	<table><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>2</td></tr></table>													2	NASU Yuki	
						2															
Specialized	Compulsory	特別研究Ⅱ	0017	Academic Credit	11	<table><tr><td></td><td></td><td></td><td></td><td>5.5</td><td></td><td>5.5</td></tr></table>											5.5		5.5	SAKAI Hiroshi, RAHOKA SAMANN, SUZUKI Shinnosuke	
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Oyama College		Year	2024		Course Title	Applied English I	
Course Information							
Course Code		0005		Course Category		General / Compulsory	
Class Format		講義・演習		Credits		Academic Credit: 2	
Department		Advanced Course of General Engineering		Student Grade		Adv. 1st	
Term		First Semester		Classes per Week		2	
Textbook and/or Teaching Materials		Discuss the Changing World 2 (SEIBIDO) Bottom Up Listening for the TOEIC Test (SEIBIO)					
Instructor		YOSHIMURA Rie					
Course Objectives							
1. To be able to use the type of English used in technical situations 2. To improve oral/aural abilities through pair, group, and speaking activities							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1		Students are able to understand spoken and written English accurately.		Students are able to adequately understand spoken and written English.		Students are not able to understand spoken and written English adequately.	
評価項目2		Students are able to express themselves confidently and fluently.		Students are able to express themselves, though are sometimes hesitant to speak.		Students are not able to express themselves confidently and fluently.	
評価項目3		Excellent critical evaluation and synthesis of relevant issues		Good critical evaluation and synthesis of relevant issues.		Demonstrate poor techniques of inquiry	
Assigned Department Objectives							
JABEE (d-2) JABEE (d-4) JABEE (E) JABEE (F) JABEE (g)							
Teaching Method							
Outline		The class will focus on speaking and listening, learning basic and practical communication skills in understanding and explaining what they have experienced with a fair level of adequacy, fluency.					
Style		Students are given opportunities to explore the types of English in technical situations. Students are required to bring a English/Japanese-Japanese/English dictionary. Positive participation is highly evaluated.					
Notice		Students who miss regular assignments will be given a mark of zero. Students will purchase the text book at the first lesson.（＊4月の第1回目、最初の授業で教室にて教科書を全員購入しますので、後でお知らせする金額を準備して来てください。）					
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	Welcome class		Introductions, syllabus review		
		2nd	Bottom Up Listening for the TOEIC Test Unit 1, 2 CLIL Unit 2		Identifying sub-tasks or sub-problems of the project The Circular Economy		
		3rd	Bottom Up Listening for the TOEIC Test Unit 3, 4 CLIL Unit 2		Proposing necessary steps in performing the project The Circular Economy		
		4th	Bottom Up Listening for the TOEIC Test Unit 5, 6 CLIL Unit 3		Clarifying detailed information concerning the project Road to Decarbonization		
		5th	Bottom Up Listening for the TOEIC Test Unit 7, 8 CLIL Unit 3		Clarifying detailed information concerning the project Road to Decarbonization		
		6th	Bottom Up Listening for the TOEIC Test Unit 9, 10 CLIL Unit 5		Giving instructions to the members of a project Delivery Robots		
		7th	Bottom Up Listening for the TOEIC Test Unit 11,12 CLIL Unit 5		Giving instructions to the members of a project Delivery Robots		
		8th	Bottom Up Listening for the TOEIC Test Unit 13,14 CLIL Unit 7		Developing a new product using smell technology Gendered Division of Housework		
	2nd Quarter	9th	Bottom Up Listening for the TOEIC Test Unit 15,16 CLIL Unit 7		Identifying problems Gendered Division of Housework		
		10th	Bottom Up Listening for the TOEIC Test Unit 17,18 CLIL Unit 8		Identifying problems, Discussing solutions Preparing for Emergencies		
		11th	Bottom Up Listening for the TOEIC Test Unit 19,20 CLIL Unit 8		Discussing solutions Preparing for Emergencies		
		12th	Bottom Up Listening for the TOEIC Test Unit 21,22 CLIL Unit 10,12		Reporting how the plan is progressing Digital Society		

		13th	Bottom Up Listening for the TOEIC Test Unit 23,24 CLIL Unit 10,12	Checking the process of experimental procedures using specimens Digital Society
		14th	Presentation CLIL Unit Review	Checking the results of the plan Multicultural Exchange in Japan
		15th	Presentation CLIL Unit Review	Confirming the performance of a new software program Multicultural Exchange in Japan
		16th	前期期末試験	既習内容の確認

Evaluation Method and Weight (%)

	試験	発表	相互評価	態度	ポートフォリオ	その他	Total
Subtotal	60	20	0	0	0	20	100
基礎的能力	60	20	0	0	0	20	100
専門的能力	0	0	0	0	0	0	0
分野横断的能力	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	Applied English II	
Course Information							
Course Code	0006			Course Category	General / Elective		
Class Format	講義・演習			Credits	Academic Credit: 2		
Department	Advanced Course of General Engineering			Student Grade	Adv. 1st		
Term	Second Semester			Classes per Week	2		
Textbook and/or Teaching Materials	Given handouts						
Instructor	YOSHIMURA Rie						
Course Objectives							
1.To learn key academic skills as students engage with thought-provoking TED Talks							
2.To learn presentation skills and authentic language students need to successfully deliver their own presentations.							
Rubric							
		理想的な到達レベルの目安		標準的な到達レベルの目安		未到達レベルの目安	
評価項目1		Students are able to understand spoken and written English accurately.		Students are able to adequately understand spoken and written English.		Students are not able to understand spoken and written English adequately.	
評価項目2		Students are able to express themselves confidently and fluently.		Students are able to express themselves, though are sometimes hesitant to speak.		Students are not able to express themselves confidently and fluently.	
評価項目3		Excellent reflection on practice		Good level of reflection on practice and self-evaluation.		Superficial reflection from practice	
Assigned Department Objectives							
JABEE (d-2) JABEE (d-4) JABEE (E) JABEE (f) JABEE (g)							
Teaching Method							
Outline	This class primarily focused on presentation skills. Students synthesize information and consolidate their learning. Students will be able to deepen their understanding of a chosen, relevant topic.						
Style	Students are required to bring a Japanese-English dictionary. Positive participation is highly evaluated.						
Notice	Students who miss a presentation will be given a mark of zero						
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
2nd Semester	3rd Quarter	1st	Welcome class		Introductions, syllabus review		
		2nd	Interview practice / Academic English?		Focus your topic Practicing a range of the themes most likely to appear in the interview		
		3rd	Describing date		Finding and evaluating sources of evidence		
		4th	Discussion topics		Practicing a range of the themes in the context of lively discussion		
		5th	Debate		Techniques and structure of debate		
		6th	Debate		Learning a range of languages in argumentation		
		7th	Rehearse Presentations		Rehearse your individual presentation		
		8th	Student Presentations		Give an individual presentation		
	4th Quarter	9th	Student Presentations		Give an individual presentation		
		10th	The visual Message		Use an effective hook		
		11th	Assertion-evidence approach		Tell a personal story		
		12th	Assertion-evidence approach		Consider your audience		
		13th	Rehearse your Presentations		Rehearse your individual presentation		
		14th	Student Presentations		Give an individual presentation		
		15th	Student Presentations		Give an individual presentation		
		16th	Student Presentations		Give an individual presentation		
Evaluation Method and Weight (%)							
	試験	発表	相互評価	態度	ポートフォリオ	その他	Total
Subtotal	20	70	0	0	0	10	100
基礎的能力	20	70	0	0	0	10	100
専門的能力	0	0	0	0	0	0	0
分野横断的能力	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	Applied Mathematics for Structural Mechanics
Course Information						
Course Code	0001		Course Category	Specialized / Elective		
Class Format	Lecture		Credits	Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade	Adv. 1st		
Term	Second Semester		Classes per Week	2		
Textbook and/or Teaching Materials	Mathematics for Architectural Engineering (Mathematics as the Language of Science), Naoki Kato et al., Asakura Shoten					
Instructor	OHWA Seira					
Course Objectives						
Explain how each item of mathematics is used in architecture. 1. Explain the mathematical representation of various phenomena in architecture. 2. Explain the use of differential equations in architecture. 3. Explain the contents related to numerical calculations in architecture.						
Rubric						
	Ideal Level		Standard Level		Unacceptable Level	
Achievement 1	Fully understand and clearly explain the mathematical representation of various phenomena in architecture.		The mathematical representation of various phenomena in architecture can be explained in general.		It is not possible to explain the mathematical expression of various phenomena in architecture.	
Achievement 2	Gain a thorough understanding of and clearly explain the use of differential equations in architecture.		The use of differential equations in architecture can be roughly explained.		The use of differential equations in architecture cannot be explained.	
Achievement 3	Fully understand and clearly explain the contents related to numerical calculations in architecture.		Able to explain the contents related to numerical calculations in architecture.		Be not able to explain the content related to numerical calculations in architecture.	
Assigned Department Objectives						
JABEE (c) JABEE (C) JABEE (g)						
Teaching Method						
Outline	In accordance with the textbook, we will explain how each item of mathematics is used in architecture, focusing on examples of its use.					
Style	1. The content of the class will be based on the textbook and will be guided by student presentations (Q&A) each time. 2. Understand the mathematics used in architecture, how to use it, and the characteristics of the resulting phenomena. 3. Report assignments will be given as appropriate.					
Notice	Since the main focus is on architecture and mathematical application to their own themes, students should learn voluntarily from that perspective.					
Characteristics of Class / Division in Learning						
☒ Active Learning		☐ Aided by ICT		☒ Applicable to Remote Class		☒ Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester	3rd Quarter	1st	Application examples of ordinary differential equations and linear first-order ordinary differential equations.	Be able to realize application examples of ordinary differential equations and linear first-order ordinary differential equations.		
		2nd	Constant-coefficient linear second-order ordinary differential equation	Be able to realize constant-coefficient linear second-order ordinary differential equations.		
		3rd	Variable 2nd order ordinary differential equations.	Be able to realize variable 2nd order ordinary differential equations.		
		4th	Constant-coefficient linear high-order ordinary differential equations.	Be able to realize constant-coefficient linear high-order ordinary differential equations.		
		5th	System of first-order differential equations.	Be able to realize system of first-order differential equations.		
		6th	Fourier analysis and Fourier series.	Be able to realize fourier analysis and Fourier series.		
		7th	Complex Fourier series and Fourier transform.	Be able to realize complex Fourier series and Fourier transform.		
		8th	Fourier transform of time function and impulse response and convolution.	Be able to realize fourier transform of time function and impulse response and convolution.		
	4th Quarter	9th	Application examples of correlation functions and spectra and Fourier transforms and correlation functions.	Realize application examples of correlation functions and spectra and Fourier transforms and correlation functions.		
		10th	Applications of the Laplace transform and its definition.	Realize applications of the Laplace transform and its definition.		
		11th	Solution by Laplace transform.	Realize solution by Laplace transform.		
		12th	Linear constant coefficients, n-order ordinary differential equations.	Realize linear constant coefficients, n-order ordinary differential equations.		
		13th	Application to partial differential equations and boundary value problems.	Realize application to partial differential equations and boundary value problems.		

		14th	Variational methods and function maxima.	Realize variational methods and function maxima.
		15th	Euler's equations and second variations and boundary conditions.	Realize Euler's equations and second variations and boundary conditions.
		16th		

Evaluation Method and Weight (%)							
	Examination	Presentation (Q&A)	Report Assignments	Behavior	Portfolio	Other	Total
Subtotal	0	50	50	0	0	0	100
Basic Proficiency	0	10	10	0	0	0	20
Specialized Proficiency	0	20	20	0	0	0	40
Cross Area Proficiency	0	20	20	0	0	0	40

Oyama College		Year	2024	Course Title	環境技術
Course Information					
Course Code	0002		Course Category	Specialized / Compulsory	
Class Format	Lecture		Credits	Academic Credit: 2	
Department	Advanced Course of General Engineering		Student Grade	Adv. 1st	
Term	Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials					
Instructor	SUZUKI Shin-nosuke, OSHIMA Ryuichi, SATO Atsushi, KOBAYASHI Yasuhiro, TANAKA Takakuni, NISHII Kei, Xiaoyang Li, OHWA Seira, FUMINO Hikaru				
Course Objectives					
2. I would like you to experience the electric power business and energy problems that are greatly related to decarbonization, which has become a hot topic these days, through our proprietary board game. Students are very welcome to ask questions (email is also acceptable)					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1					
Achievement 2					
Achievement 3					
Assigned Department Objectives					
JABEE (a) JABEE (b) JABEE (D) JABEE (g)					
Teaching Method					
Outline					
Style					
Notice					
Characteristics of Class / Division in Learning					
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class	☐ Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
2nd Semester	3rd Quarter	1st			
		2nd	Understand the energy consumption and power source composition of World and Japan; what are renewable energy and new energy; how can power system work. (Xiaoyang Li, 1 week) Preparation: Understand the reference materials Review: Understand the lecture and complete the assignments	Instruct at the time of the lecture.	
		3rd	Understand the causes of CFCs, aerosols, etc., their pollution status, impact on the environment, countermeasures and treatment technologies, and ozone depletion mechanisms (Nishii, 1 week) Preparation: Understand the reference materials Review: Understand the lecture and complete the assignments		
		4th	Causes of CO2, contamination status, impact on the environment, countermeasures and treatment technology, ・ Basic knowledge about radioactivity, radioactive materials, radioactive contamination accidents and impact on the environment, countermeasures (Nishii, 1 week) Preparation: Understand the reference materials Review: Understand the lecture and complete the assignments		
		5th	Water environment (Waste water measures, treatment and evaluation) (Takakuni Tanaka, 1 week) Preparation: Understand the reference materials.	Instructions will be given in the lecture.	
		6th	Soil environment (Waste soil measures, treatment and evaluation) (Takakuni Tanaka, 1 week) Preparation: Understand the reference materials.	Instructions will be given in the lecture.	
		7th	Introduction of Biotope and 3R (Reduce, Reuse Recycle) (Takakuni Tanaka, 1 week) Preparation: Understand the reference materials.	Instructions will be given in the lecture.	
		8th	Current status of various fields from the viewpoint of housing environmental technology (Ryuichi Oshima, 1 week) Preparation: Understand the reference materials. Review: Take the lecture and complete the assignments.	Instructions will be given in the lecture.	

4th Quarter	9th	Considering the environmental impact of the earthquake (East Japan and Hanshin) (, 1 week) Preparation: Understand the reference materials. Review: Take the lecture and complete the assignments.	Instructions will be given in the lecture.
	10th	Low carbon city planning (Atsushi Sato, 1 week) Preparation: Understand the reference materials. Review: Take the lecture and complete the assignments.	
	11th	Materials used Waste and Recycled Resources (Second week, Hikaru Fumino) Preparation: Realizing reference materials etc Review: Presentation and submit a report	Instructions will be given in the lecture.
	12th	Environmental Issues Facing Companies1 (Shinnosuke Suzuki, Yasuhiro Kobayashi 1 week) Preparation: Understand the reference materials. Review: Take the lecture and complete the assignments.	Instructions will be given in the lecture.
	13th	Environmental Issues Facing Companies2 (Shinnosuke Suzuki, Yasuhiro Kobayashi 1 week) Preparation: Understand the reference materials. Review: Take the lecture and complete the assignments.	Instructions will be given in the lecture.
	14th	Environmental Issues Facing Companies3 (Shinnosuke Suzuki, Yasuhiro Kobayashi 1 week) Preparation: Understand the reference materials. Review: Take the lecture and complete the assignments.	Instructions will be given in the lecture.
	15th	Environmental Issues Facing Companies4 (Shinnosuke Suzuki, Yasuhiro Kobayashi 1 week) Preparation: Understand the reference materials. Review: Take the lecture and complete the assignments.	Instructions will be given in the lecture.
	16th		

Evaluation Method and Weight (%)

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	経営工学
Course Information						
Course Code		0003		Course Category	Specialized / Compulsory	
Class Format		Lecture		Credits	Academic Credit: 2	
Department		Advanced Course of General Engineering		Student Grade	Adv. 1st	
Term		First Semester		Classes per Week	2	
Textbook and/or Teaching Materials						
Instructor		,SUZUKI Shin-nosuke				
Course Objectives						
The participants of this course are expected to understand the basic theories and practices of management and the basic elements of business operations such as marketing, product development, manufacturing, quality control, and accounting in order to be engineers that can contribute to value creation in various societies.						
Rubric						
		Ideal Level		Standard Level		Unacceptable Level
Achievement 1		Explain the typical theory of business administration in one's own words.		Have correct understanding about the typical theory of business administration.		Don't have correct understanding about the typical theory of business administration.
Achievement 2		Be able to explain about the elements of business operations such as marketing, technology development, manufacturing, quality control, and accounting in one's own words.		Have coorrect understanding about the elements of business operations such as marketing, technology development, manufacturing, quality control, and accounting.		Don't have coorrect understanding about the elements of business operations such as marketing, technology development, manufacturing, quality control, and accounting.
Achievement 3		Have your own thoughts on how you can contribute to societies as an engineer, and be able to explain to others in a convincing way.		Be interested in how you can contribute to society as an engineer and can think from various perspectives.		Don't have interest about how you can contribute to societies as an engineer nor have any perspectives to think about it.
Assigned Department Objectives						
JABEE (a) JABEE (b) JABEE (D) JABEE (g)						
Teaching Method						
Outline		This year is the 4th year, but the class evaluation is remarkably low, so this year I aim to achieve the learning objectives by reducing the assignments and the burden outside the class as much as possible.				
Style		In the class, while explaining the necessary theories, I will try to get people interested in management as much as possible by discussing various management topics and giving time to tackle the issues. In addition, I would like to give consideration to getting points properly in the learning in daily lessons so that the final exam will not be overly knowledgeable.				
Notice						
Characteristics of Class / Division in Learning						
☐ Active Learning		☐ Aided by ICT		☒ Applicable to Remote Class		☒ Instructor Professionally Experienced
Course Plan						
			Theme		Goals	
1st Semester	1st Quarter	1st	Guidance		What is management engineering? Why study? think about it.	
		2nd	Corporate Theory		What is a company? What type of companies are there?	
		3rd	Corporate Theory		Think about the relationship between corporate form and decision making process.	
		4th	Administration Theory		What is an administration? Why is it necessary? Think about what should we do?	
		5th	Organization Theory		What is organizational theory? What kind of theories are there? Think about how the organization should be.	
		6th	Business Strategy Theory		Understand the types and characteristics of business strategies.	
		7th	Leadership Theory		Think about leadership and learn about typical theories.	
		8th	Corporate Culture		Understand the differences of corporate culture and think about what kind of management approach is effective for each of them.	
	2nd Quarter	9th	Technology Development		Think about the meaning of technological development for management and know what approaches are possible.	
		10th	Marketing		Think about the value of marketing activities.	
		11th	Marketing		Learn about various marketing strategies.	
		12th	Production Control		Learn about the purpose and method of production systems.	
		13th	Quality Management		Learn about the purpose and method of quality control.	

		14th	Financial Management	Learn about the purpose and method of financial management.
		15th	Retrospective	Review what we have learned and get deeper understanding.
		16th		

Evaluation Method and Weight (%)							
	Examination	Attendance	Mutual Eval.	Behavior	Portfolio	Report	Total
Subtotal	40	10	0	20	0	30	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	40	10	0	20	0	30	100

Oyama College		Year	2024		Course Title	System Design	
Course Information							
Course Code	0004		Course Category		Specialized / Compulsory		
Class Format	Lecture		Credits		Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade		Adv. 1st		
Term	First Semester		Classes per Week		2		
Textbook and/or Teaching Materials							
Instructor	IZAWA Satoru,KAMIYA Tetsu,AMAGAI Kenji,NOHARA Kazuhiro,YAGI Hitoshi,HANADA Yasuyuki,HUKUDA Takashi						
Course Objectives							
Rubric							
	Ideal Level		Standard Level		Unacceptable Level		
Achievement 1							
Achievement 2							
Achievement 3							
Assigned Department Objectives							
JABEE (B) JABEE (d-2) JABEE (d-3) JABEE (g) JABEE (h) JABEE (i)							
Teaching Method							
Outline							
Style							
Notice							
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme	Goals			
1st Semester	1st Quarter	1st	Guidance				
		2nd	Communication theory				
		3rd	Communication theory				
		4th	5S action				
		5th	5S action				
		6th	History and future of technology				
		7th	History and future of technology				
		8th	Energy problem				
	2nd Quarter	9th	Energy problem				
		10th	Management				
		11th	Management				
		12th	House and enviroment				
		13th	House and enviroment				
		14th	Hood and industrial				
		15th	Hood and industrial				
		16th					
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024	Course Title	Complex Analysis
Course Information					
Course Code	0008		Course Category	Specialized / Elective	
Class Format	Lecture		Credits	Academic Credit: 2	
Department	Advanced Course of General Engineering		Student Grade	Adv. 1st	
Term	First Semester		Classes per Week	2	
Textbook and/or Teaching Materials	「Ouyosugaku (2nd Edition)」, 「Ouyosugaku Mondaisu (2nd Edition)」, MORIKITA PUBLISHING, in Japanese.				
Instructor	NAKAGAWA Hidenori, OKAZAKI Masao, OKADA So				
Course Objectives					
1. Understand the concepts of complex numbers, polar forms, holomorphic functions and conformal transformations, and be able to solve exercise about them. 2. Understand the concepts of Cauchy's integral theorem, Laurent series and residues, and be able to answer questions relating to them.					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1	Be able to clearly explain the concepts of complex numbers, polar forms, holomorphic functions and conformal transformations, and be able to accurately solve practice problems related to this.		Be able to solve practice problems related to complex numbers, polar forms, holomorphic functions and conformal transformations.		Unable to solve practice problems related to complex numbers, polar forms, holomorphic functions and conformal transformations.
Achievement 2	Be able to clearly explain the concepts of Cauchy's integral theorem, Laurent series and residues, and be able to accurately solve practice problems related to this.		Be able to solve practice problems related to Cauchy's integral theorem, Laurent series and residues.		Unable to solve practice problems related to Cauchy's integral theorem, Laurent series and residues.
Assigned Department Objectives					
JABEE (c) JABEE (C) JABEE (g)					
Teaching Method					
Outline	This course deals with holomorphic functions, extending the differentiation and integration on real numbers to complex numbers.				
Style	This is an omnibus class. The class will consist mainly of lectures, with assignments and quizzes as appropriate. The first eight lessons are worth 50 points (handled by Okazaki), and the 9th to 15th lessons are worth 50 points (handled by Nakagawa), for a total of 100 points.				
Notice	Self-study is recommended.				
Characteristics of Class / Division in Learning					
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class	☐ Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Complex Numbers (Okazaki)	To be able to solve relevant questions.	
		2nd	Polar Forms, Definition of Complex Functions (Okazaki)	To be able to solve relevant questions.	
		3rd	Basic Complex Functions (Okazaki)	To be able to solve relevant questions.	
		4th	Limits and Continuity of Complex Functions (Okazaki)	To be able to solve relevant questions.	
		5th	Differentiability of Complex Functions, Holomorphic Functions (Okazaki)	To be able to solve relevant questions.	
		6th	Cauchy-Riemann Equations (Okazaki)	To be able to solve relevant questions.	
		7th	Holomorphic Functions and Their Derivatives (Okazaki)	To be able to solve relevant questions.	
		8th	Integration of Complex Functions (Okazaki)	To be able to solve relevant questions.	
	2nd Quarter	9th	Cauchy's Integral Theorem (Nakagawa)	To be able to solve relevant questions.	
		10th	Cauchy's Integral Formula (Nakagawa)	To be able to solve relevant questions.	
		11th	Taylor Series (Nakagawa)	To be able to solve relevant questions.	
		12th	Laurent Series (Nakagawa)	To be able to solve relevant questions.	
		13th	Residue (Nakagawa)	To be able to solve relevant questions.	
		14th	Residue Theorem (Nakagawa)	To be able to solve relevant questions.	
		15th	Final Examination (Nakagawa)		
		16th			
Evaluation Method and Weight (%)					
	Examination		Assignments, quizzes etc.		Total
Subtotal	90		10		100
Basic Proficiency	0		0		0

Specialized Proficiency	90	10	100
Cross Area Proficiency	0	0	0

Oyama College		Year	2024		Course Title	Applied Analysis
Course Information						
Course Code		0009		Course Category	Specialized / Elective	
Class Format		Lecture		Credits	Academic Credit: 2	
Department		Advanced Course of General Engineering		Student Grade	Adv. 1st	
Term		Second Semester		Classes per Week	2	
Textbook and/or Teaching Materials		「KOSEN text series Ouyou-Suugaku (2nd Ed)」 Kenji Ueno, MORIKITA PUBLISHING, in Japanese				
Instructor		NAGAMINE Takanori,OKADA So				
Course Objectives						
1. Solve ordinary differential equations using Laplace transform. 2. Solve partial differential equations using Fourier series. 3. Understand Fourier integrals and Fourier transforms and calculate them.						
Rubric						
		Ideal Level	Standard Level		Unacceptable Level	
Achievement 1		Be able to clearly explain applications of Laplace transforms in ordinary differential equations and be able to solve related exercises.	Be able to solve related exercises on applications of Laplace transforms in ordinary differential equations.		Unable to solve related exercises on applications of Laplace transforms in ordinary differential equations.	
Achievement 2		Be able to clearly explain basic problems related to partial differential equations using Fourier series expansions and be able to solve related exercises.	Be able to solve related exercises on partial differential equations using Fourier series expansions.		Unable to solve related exercises on partial differential equations using Fourier series expansions.	
Achievement 3		Be able to clearly explain Fourier integrals and Fourier transforms and solve related exercises.	Be able to solve related exercises on Fourier integrals and Fourier transforms.		Unable to solve related exercises on Fourier integrals and Fourier transforms.	
Assigned Department Objectives						
JABEE (c) JABEE (C) JABEE (g)						
Teaching Method						
Outline		1-5ths: Learn about Laplace transform, inverse Laplace transform, solving ordinary differential equations, and convolutions. 6-10ths: Fourier series, Fourier cosine series and Fourier sine series, partial differential equations and Fourier series. 11-15ths: Complex Fourier series, Fourier transforms, and Discrete Fourier transforms.				
Style		1. The class will be an omnibus course, with three teachers sharing five lectures each. 2. Grades will be evaluated by examinations, exercises, and small tests in lectures 1-5ths (by Nakagawa), 6-10ths (by Kumashiro), and 11-15ths (by Nagamine). A total score of 60 or higher is required to pass this class.				
Notice		1. The class will consist mainly of lectures and exercises, with some exercises and small tests. Lecture notes may be used and distributed freely. 2. Students are expected to study the textbook in advance of class, take notes in class, and review the class thoroughly. It is also important to solve the exercises in the textbook and workbook by yourself. 3. All teachers of the Mathematics will accept any questions regarding all subjects of Mathematics. 4. The class content and evaluation ratio may change depending on the progress of the lectures. 5. If no exercises are given, the class will be evaluated by examinations only.				
Characteristics of Class / Division in Learning						
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
2nd Semester r	3rd Quarter	1st	Laplace transform, moving formula for image function	Be able to solve the exercises.		
		2nd	Laplace transform of trigonometric functions, Inverse Laplace transform	Be able to solve the exercises.		
		3rd	differential formulas for primitive functions, first-order linear ordinary differential equations, second-order linear ordinary differential equations	Be able to solve the exercises.		
		4th	Step and delta functions	Be able to solve the exercises.		
		5th	Convolutions	Be able to solve the exercises.		
		6th	Exam			
		7th	Periodic functions, trigonometric series and Fourier series	Be able to solve the exercises.		
		8th	Fourier series of functions of period T, convergence theorem of Fourier series	Be able to solve the exercises.		
	4th Quarter	9th	Fourier cosine series and Fourier sine series	Be able to solve the exercises.		
		10th	Partial differential equations and Fourier series, solution of heat conduction equation	Be able to solve the exercises.		
		11th	Complex Fourier series and Fourier transform of functions of period T	Be able to solve the exercises.		

		12th	Fourier transform, inverse Fourier transform, Fourier integral theorem	Be able to solve the exercises.
		13th	Fourier cosine transform, Fourier sine transform, application of Fourier integral theorem	Be able to solve the exercises.
		14th	Discrete Fourier transforms	Be able to solve the exercises.
		15th	Exam	
		16th		

Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Assignments	Total
Subtotal	95	0	0	0	0	5	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	95	0	0	0	0	5	100
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	Mathematics for Physical Chemistry and Chemical Engineering
Course Information						
Course Code		0010		Course Category	Specialized / Elective	
Class Format		Lecture		Credits	Academic Credit: 2	
Department		Advanced Course of General Engineering		Student Grade	Adv. 1st	
Term		First Semester		Classes per Week	2	
Textbook and/or Teaching Materials		Prepared by each teacher in charge				
Instructor		SAKAI Hiroshi,KASHIMA Keita				
Course Objectives						
1) Formulate problems related to chemical reaction rates and to solve differential equations. (C, c, g)						
2) Formulate wave equations for atoms and molecules and to solve them analytically and approximately. (C, c, g)						
Rubric						
		Ideal Level		Standard Level		Unacceptable Level
Achievement 1		Be able to formulate problems related to chemical reaction rates and solve differential equations accurately.		Be able to formulate problems related to chemical reaction rates and solve differential equations.		Cannot formulate problems related to chemical reaction rates and solve differential equations accurately.
Achievement 2		Be able to formulate wave equations for atoms and molecules and to solve them analytically and approximately accurately.		Be able to formulate wave equations for atoms and molecules and to solve them analytically and approximately.		Cannot formulate wave equations for atoms and molecules and solve them analytically and approximately accurately.
Achievement 3						
Assigned Department Objectives						
学習・教育到達度目標 ③ JABEE (c) JABEE (C) JABEE (g)						
Teaching Method						
Outline		Learn about mathematics for physical chemistry and chemical engineering.				
Style		1 and 2 are evaluated as achieved with a grade of 60% or higher in the physical chemistry examinations. 3 and 4 are evaluated as achieved with a grade of 60% or higher in the chemical engineering examinations. Evaluation is based on the results of the examinations and the answers to the submitted assignments. The examinations include self-study on the assignments. The exam grade is (mid-term exam + regular exam) / 2. Final grade: Examination grade (80%) + Assignment grade (20%)				
Notice		1. The class method is based on lectures and answers to problems and assignments. 2. Students are expected to understand and recognize how to apply mathematics to physical chemistry and chemical engineering classes. 3. Sakai is in charge of physical chemistry and Kashima is in charge of chemical engineering. [Omnibus style]. Courses offered every other year (not offered in 2024)				
Characteristics of Class / Division in Learning						
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced
Course Plan						
			Theme	Goals		
1st Semester	1st Quarter	1st	Chemical kinetics - differential equation	Understand chemical kinetics - differential equation.		
		2nd	Chemical kinetics - differential equation	Understand chemical kinetics - differential equation.		
		3rd	Chemical kinetics - differential equation	Understand chemical kinetics - differential equation.		
		4th	Quantum chemistry - differential equation	Understand quantum chemistry - differential equation.		
		5th	Quantum chemistry - determinant	Understand quantum chemistry - determinant.		
		6th	Quantum chemistry - variation theorem	Understand quantum chemistry - variation theorem.		
		7th	Quantum chemistry - polar coordinates system	Understand quantum chemistry - polar coordinates system.		
		8th	Exam (Physical chemistry)	Understand what has been learned so far.		
	2nd Quarter	9th	Chemical engineering 1			
		10th	Chemical engineering 2			
		11th	Chemical engineering 3			
		12th	Chemical engineering 4			
		13th	Chemical engineering 5			
		14th	Chemical engineering 6			
		15th	Chemical engineering 7			
		16th	Exam (Chemical engineering)			
Evaluation Method and Weight (%)						

	Examination	Self-study assignments	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	80	20	0	0	0	0	100
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	80	20	0	0	0	0	100
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	Applied Science	
Course Information							
Course Code	0011		Course Category		Specialized / Elective		
Class Format	Lecture		Credits		Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade		Adv. 1st		
Term	Second Semester		Classes per Week		2		
Textbook and/or Teaching Materials	機構学の「しくみ」と「基本」, 小峯龍男著, 技術評論社(in Japanese)						
Instructor	MASUYAMA Tomoya						
Course Objectives							
1. Able to explain about mechanisms for realize objective motion.(A, d-1, g)							
2. Able to express position and velocity of body by formula and drawing.(A, d-1, g)							
Rubric							
	Ideal Level		Standard Level		Unacceptable Level		
Achievement 1	Able to express link motions. Alternative solution also can be expressed.		Able to express link motions.		Unable to express link motions.		
Achievement 2	Able to express position and velocity of body by formula and drawing.		Able to express position of body by formula and drawing.		Unable to express position and velocity of body by formula and drawing.		
Assigned Department Objectives							
JABEE (A) JABEE (d-1) JABEE (g)							
Teaching Method							
Outline							
Style							
Notice							
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme	Goals			
2nd Semester	3rd Quarter	1st	Mechanisms				
		2nd	Linear motion and rotational motion				
		3rd	Instant center of rotation				
		4th	Pair				
		5th	Link mechanisms				
		6th	Link motion				
		7th	Link motion				
		8th	Intermediate examination				
	4th Quarter	9th	Cam mechanisms				
		10th	Cam motion				
		11th	Friction drive mechanisms				
		12th	Friction drive mechanisms				
		13th	Gear				
		14th	Gear				
		15th	Gear				
		16th	Examination				
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	70	0	0	0	0	30	100
Basic Proficiency	70	0	0	0	0	30	100
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024	Course Title	特別研究 I
Course Information					
Course Code	0012		Course Category	Specialized / Compulsory	
Class Format	Experiment / Practical training		Credits	Academic Credit: 6	
Department	Advanced Course of General Engineering		Student Grade	Adv. 1st	
Term	Year-round		Classes per Week	3	
Textbook and/or Teaching Materials					
Instructor	SAKAI Hiroshi,RAHOK SAM ANN,SUZUKI Shin-nosuke				
Course Objectives					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1					
Achievement 2					
Achievement 3					
Assigned Department Objectives					
JABEE (B) JABEE (d-2) JABEE (d-3) JABEE (d-4) JABEE (E) JABEE (f) JABEE (g) JABEE (h) JABEE (i)					
Teaching Method					
Outline					
Style					
Notice					
Characteristics of Class / Division in Learning					
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class	☐ Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Research related a theme in the special provision		
		2nd	The same hereinafter		
		3rd			
		4th			
		5th			
		6th			
		7th			
		8th			
	2nd Quarter	9th			
		10th			
		11th			
		12th			
		13th			
		14th			
		15th			
		16th			
2nd Semester	3rd Quarter	1st			
		2nd			
		3rd			
		4th			
		5th			
		6th			
		7th			
		8th			
	4th Quarter	9th			
		10th			
		11th			
		12th			
		13th			
		14th			
		15th	Presentation session (all course)		
		16th			
Evaluation Method and Weight (%)					

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024	Course Title	実務研修 I
Course Information					
Course Code	0013		Course Category	Specialized / Compulsory	
Class Format	Experiment / Practical training		Credits	Academic Credit: 2	
Department	Advanced Course of General Engineering		Student Grade	Adv. 1st	
Term	Intensive		Classes per Week		
Textbook and/or Teaching Materials					
Instructor	SAKAI Hiroshi,RAHOK SAM ANN,SUZUKI Shin-nosuke				
Course Objectives					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1					
Achievement 2					
Achievement 3					
Assigned Department Objectives					
JABEE (B) JABEE (d-2) JABEE (d-3) JABEE (g) JABEE (h) JABEE (i)					
Teaching Method					
Outline					
Style					
Notice					
Characteristics of Class / Division in Learning					
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class	☐ Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Guidance		
		2nd	Internship		
		3rd	Internship		
		4th	Internship		
		5th	Internship		
		6th	Internship		
		7th	Internship		
		8th	Internship		
	2nd Quarter	9th	Internship		
		10th	Internship		
		11th	Internship		
		12th	Internship		
		13th	Internship		
		14th	Internship		
		15th	Presentation session		
		16th			
2nd Semester	3rd Quarter	1st			
		2nd			
		3rd			
		4th			
		5th			
		6th			
		7th			
		8th			
	4th Quarter	9th			
		10th			
		11th			
		12th			
		13th			
		14th			
		15th			
		16th			
Evaluation Method and Weight (%)					

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	実務研修Ⅲ	
Course Information							
Course Code	0014		Course Category		Specialized / Elective		
Class Format	Experiment / Practical training		Credits		Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade		Adv. 1st		
Term	Intensive		Classes per Week				
Textbook and/or Teaching Materials							
Instructor	SAKAI Hiroshi,RAHOK SAM ANN,SUZUKI Shin-nosuke						
Course Objectives							
Rubric							
	Ideal Level		Standard Level		Unacceptable Level		
Achievement 1							
Achievement 2							
Achievement 3							
Assigned Department Objectives							
Teaching Method							
Outline							
Style							
Notice							
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme	Goals			
1st Semester	1st Quarter	1st	Guidance				
		2nd	Internship				
		3rd	Internship				
		4th	Internship				
		5th	Internship				
		6th	Internship				
		7th	Internship				
		8th	Internship				
	2nd Quarter	9th	Internship				
		10th	Internship				
		11th	Internship				
		12th	Internship				
		13th	Internship				
		14th	Internship				
		15th	Presentation session				
		16th					
2nd Semester	3rd Quarter	1st					
		2nd					
		3rd					
		4th					
		5th					
		6th					
		7th					
		8th					
	4th Quarter	9th					
		10th					
		11th					
		12th					
		13th					
		14th					
		15th					
		16th					
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total

Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	実務研修Ⅳ	
Course Information							
Course Code	0015		Course Category		Specialized / Elective		
Class Format	Experiment / Practical training		Credits		Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade		Adv. 1st		
Term	Intensive		Classes per Week				
Textbook and/or Teaching Materials							
Instructor	SAKAI Hiroshi,RAHOK SAM ANN,SUZUKI Shin-nosuke						
Course Objectives							
Rubric							
		Ideal Level		Standard Level		Unacceptable Level	
Achievement 1							
Achievement 2							
Achievement 3							
Assigned Department Objectives							
Teaching Method							
Outline							
Style							
Notice							
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme		Goals		
1st Semester	1st Quarter	1st	Guidance				
		2nd	Internship				
		3rd	Internship				
		4th	Internship				
		5th	Internship				
		6th	Internship				
		7th	Internship				
		8th	Internship				
	2nd Quarter	9th	Internship				
		10th	Internship				
		11th	Internship				
		12th	Internship				
		13th	Internship				
		14th	Internship				
		15th	Presentation session				
		16th					
2nd Semester	3rd Quarter	1st					
		2nd					
		3rd					
		4th					
		5th					
		6th					
		7th					
		8th					
	4th Quarter	9th					
		10th					
		11th					
		12th					
		13th					
		14th					
		15th					
		16th					
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total

Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	実務研修 V	
Course Information							
Course Code	0016		Course Category		Specialized / Elective		
Class Format	Experiment / Practical training		Credits		Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade		Adv. 1st		
Term	Intensive		Classes per Week				
Textbook and/or Teaching Materials							
Instructor	SAKAI Hiroshi,RAHOK SAM ANN,SUZUKI Shin-nosuke						
Course Objectives							
Rubric							
	Ideal Level		Standard Level		Unacceptable Level		
Achievement 1							
Achievement 2							
Achievement 3							
Assigned Department Objectives							
Teaching Method							
Outline							
Style							
Notice							
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme	Goals			
1st Semester	1st Quarter	1st	Guidance				
		2nd	Internship				
		3rd	Internship				
		4th	Internship				
		5th	Internship				
		6th	Internship				
		7th	Internship				
		8th	Internship				
	2nd Quarter	9th	Internship				
		10th	Internship				
		11th	Internship				
		12th	Internship				
		13th	Internship				
		14th	Internship				
		15th	Presentation session				
		16th					
2nd Semester	3rd Quarter	1st					
		2nd					
		3rd					
		4th					
		5th					
		6th					
		7th					
		8th					
	4th Quarter	9th					
		10th					
		11th					
		12th					
		13th					
		14th					
		15th					
		16th					
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total

Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	実務研修VI	
Course Information							
Course Code	0017		Course Category		Specialized / Elective		
Class Format	Experiment / Practical training		Credits		Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade		Adv. 1st		
Term	Intensive		Classes per Week				
Textbook and/or Teaching Materials							
Instructor	SAKAI Hiroshi,RAHOK SAM ANN,SUZUKI Shin-nosuke						
Course Objectives							
Rubric							
	Ideal Level		Standard Level		Unacceptable Level		
Achievement 1							
Achievement 2							
Achievement 3							
Assigned Department Objectives							
Teaching Method							
Outline							
Style							
Notice							
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
			Theme	Goals			
1st Semester	1st Quarter	1st	Guidance				
		2nd	Internship				
		3rd	Internship				
		4th	Internship				
		5th	Internship				
		6th	Internship				
		7th	Internship				
		8th	Internship				
	2nd Quarter	9th	Internship				
		10th	Internship				
		11th	Internship				
		12th	Internship				
		13th	Internship				
		14th	Internship				
		15th	Presentation session				
		16th					
2nd Semester	3rd Quarter	1st					
		2nd					
		3rd					
		4th					
		5th					
		6th					
		7th					
		8th					
	4th Quarter	9th					
		10th					
		11th					
		12th					
		13th					
		14th					
		15th					
		16th					
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total

Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024	Course Title	実務研修Ⅱ
Course Information					
Course Code	0018		Course Category	Specialized / Elective	
Class Format	Experiment / Practical training		Credits	Academic Credit: 2	
Department	Advanced Course of General Engineering		Student Grade	Adv. 1st	
Term	Intensive		Classes per Week		
Textbook and/or Teaching Materials					
Instructor	SAKAI Hiroshi,RAHOK SAM ANN,SUZUKI Shin-nosuke				
Course Objectives					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1					
Achievement 2					
Achievement 3					
Assigned Department Objectives					
JABEE (B) JABEE (d-2) JABEE (d-3) JABEE (g) JABEE (h) JABEE (i)					
Teaching Method					
Outline					
Style					
Notice					
Characteristics of Class / Division in Learning					
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class	☐ Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Guidance		
		2nd	Internship		
		3rd	Internship		
		4th	Internship		
		5th	Internship		
		6th	Internship		
		7th	Internship		
		8th	Internship		
	2nd Quarter	9th	Internship		
		10th	Internship		
		11th	Internship		
		12th	Internship		
		13th	Internship		
		14th	Internship		
		15th	Internship		
		16th	Presentation session		
2nd Semester	3rd Quarter	1st			
		2nd			
		3rd			
		4th			
		5th			
		6th			
		7th			
		8th			
	4th Quarter	9th			
		10th			
		11th			
		12th			
		13th			
		14th			
		15th			
		16th			
Evaluation Method and Weight (%)					

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College	Year	2024	Course Title	Ethics of Engineers
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Course Information			
Course Code	0014	Course Category	General / Compulsory
Class Format	Lecture	Credits	Academic Credit: 2
Department	Advanced Course of General Engineering	Student Grade	Adv. 2nd
Term	First Semester	Classes per Week	2
Textbook and/or Teaching Materials			
Instructor	UENO Tetsu, TAKEUCHI Kosei		

Course Objectives			
In order to avoid occurrence of a contestation by misunderstanding this English version, I should not write the details of a contract about this course here. If you want to get more information about this course, see Japanese version or contact me directly.			

Rubric			
	Ideal Level	Standard Level	Unacceptable Level
Achievement 1			
Achievement 2			
Achievement 3			

Assigned Department Objectives			
JABEE (a) JABEE (b) JABEE (D) JABEE (g)			

Teaching Method			
Outline			
Style			
Notice			

Characteristics of Class / Division in Learning			
☐ Active Learning	☐ Aided by ICT	☐ Applicable to Remote Class	☐ Instructor Professionally Experienced

Course Plan				
			Theme	Goals
1st Semester	1st Quarter	1st		
		2nd		
		3rd		
		4th		
		5th		
		6th		
		7th		
		8th		
	2nd Quarter	9th		
		10th		
		11th		
		12th		
		13th		
		14th		
		15th		
		16th		

Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024		Course Title	プロジェクトデザイン	
Course Information							
Course Code	0016		Course Category		Specialized / Compulsory		
Class Format	Seminar		Credits		Academic Credit: 2		
Department	Advanced Course of General Engineering		Student Grade		Adv. 2nd		
Term	Second Semester		Classes per Week		2		
Textbook and/or Teaching Materials							
Instructor	NASU Yuki						
Course Objectives							
Rubric							
	Ideal Level		Standard Level		Unacceptable Level		
Achievement 1							
Achievement 2							
Achievement 3							
Assigned Department Objectives							
JABEE (B) JABEE (d-2) JABEE (d-3) JABEE (g) JABEE (h) JABEE (i)							
Teaching Method							
Outline							
Style							
Notice							
Characteristics of Class / Division in Learning							
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class		☐ Instructor Professionally Experienced	
Course Plan							
2nd Semester	3rd Quarter		Theme	Goals			
		1st	Analyze and re-propose current electric vehicles				
		2nd	Market research, technical research				
		3rd	Target formulation				
		4th	Hypothesis setting				
		5th	Proposal for the next generation electric vehicle				
		6th	Confirmation of technology transition by roadmap				
		7th	Predicting future systems using the TRIZ "nine screen method"				
	4th Quarter	8th	Concept presentation				
		9th	Understanding the performance of electric vehicles				
		10th	Technological research on "running," "turning," and "stopping"				
		11th	Electric vehicle driving experience and concept revision				
		12th	Design work				
		13th	Create a concept sheet				
		14th	Summary of next generation electric vehicle				
		15th	Presentation				
16th							
Evaluation Method and Weight (%)							
	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0

Oyama College		Year	2024	Course Title	特別研究Ⅱ
Course Information					
Course Code	0017		Course Category	Specialized / Compulsory	
Class Format	Experiment / Practical training		Credits	Academic Credit: 11	
Department	Advanced Course of General Engineering		Student Grade	Adv. 2nd	
Term	Year-round		Classes per Week	5.5	
Textbook and/or Teaching Materials					
Instructor	SAKAI Hiroshi,RAHOK SAM ANN,SUZUKI Shin-nosuke				
Course Objectives					
Rubric					
	Ideal Level		Standard Level		Unacceptable Level
Achievement 1					
Achievement 2					
Achievement 3					
Assigned Department Objectives					
JABEE (B) JABEE (d-2) JABEE (d-3) JABEE (d-4) JABEE (E) JABEE (f) JABEE (g) JABEE (h) JABEE (i)					
Teaching Method					
Outline					
Style					
Notice					
Characteristics of Class / Division in Learning					
☐ Active Learning		☐ Aided by ICT		☐ Applicable to Remote Class	☐ Instructor Professionally Experienced
Course Plan					
			Theme	Goals	
1st Semester	1st Quarter	1st	Research related a theme in the special provision		
		2nd	The same hereinafter		
		3rd			
		4th			
		5th			
		6th			
		7th			
		8th			
	2nd Quarter	9th			
		10th			
		11th			
		12th			
		13th			
		14th			
		15th			
		16th			
2nd Semester	3rd Quarter	1st			
		2nd			
		3rd			
		4th			
		5th			
		6th			
		7th			
		8th			
	4th Quarter	9th			
		10th			
		11th			
		12th			
		13th			
		14th			
		15th	Presentation session (each course)		
		16th	Presentation session (all course)		
Evaluation Method and Weight (%)					

	Examination	Presentation	Mutual Evaluations between students	Behavior	Portfolio	Other	Total
Subtotal	0	0	0	0	0	0	0
Basic Proficiency	0	0	0	0	0	0	0
Specialized Proficiency	0	0	0	0	0	0	0
Cross Area Proficiency	0	0	0	0	0	0	0