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## Cluster 2 (Electrical, Electronic and Systems Engineering)

◎ Required subject (period of registration specified)

○ Compulsory elective subject (any of these subjects shall be registered)

△ Free elective subject (any of these subjects shall be registered)

Subject Type				Require d No. of credits	Class subjects, etc.	No. of credits	Type of course registra tion	Year in which the subject is taken(*The lower figure means semester)(Note 1)																			
								1st grade				2nd grade				3rd grade				4th grade							
								Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall						
		1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T										
Liberal Arts Education Subjects	Peace science course			2		2	Compulsory elective		○																		
	Basic Courses in University Education	Introduction to University Education			2	Introduction to University Education	2	Required	◎																		
		Introductory Seminar for First-Year			2	Introductory Seminar for First-Year Students	2	Required	◎																		
	Common Subjects	Area Courses			4	Courses in Arts and Humanities/Social Sciences	2	Compulsory elective	○		○																
					4	Courses in Natural Sciences	2			○		○															
		Foreign Languages		Basic English Usage	2	Basic English UsageI	1	Required	◎	◎																	
					Basic English UsageII	1				◎	◎																
			English (Note2・3)	Communication I	2	CommunicationIA	1	Required	◎	◎																	
					Communication IB	1	◎		◎																		
			Communication II	2	Communication IIA	1	Required			◎	◎																
				Communication IIB	1				◎	◎																	
			Initial Foreign Languages (Select one language from German, French, Spanish, Russian, Chinese, Korean and Arabic)			2	1 subjects from Basic language I	1	Compulsory elective	○																	
							1 subjects from Basic language II	1																			
		Information and Data Science Courses			2	(Note 4) Elements of Information Literacy or Exercise in Information Literacy	2	Compulsory elective		○																	
		Health and Sports Courses			2		1or2	Compulsory elective	○	○	○	○															
		Basic Subjects				16	CalculusI	2	Required		◎																
	CalculusII						2					◎															
	Linear AlgebraI						2	◎																			
	Linear AlgebraII						2				◎																
	Seminar in Basic Mathematics I						1			◎																	
	Seminar in Basic Mathematics II						1					◎															
	General Mechanics I						2	◎																			
	General Mechanics II						2				◎																
	Experimental Methods and Laboratory Work in Physics I (Note 5)						1				◎																
	Experimental Methods and Laboratory Work in Physics II (Note 5)						1					◎															
	Free elective subjects				6	From all Subject Type (Note 6)		Free elective	△	△	△	△															
No. of credits required for graduation				48																							

Note 1: When students fail to acquire the credit during the term or semester marked with ◎, ○, △ in the boxes for the year in which the course is taken, they can take the course in subsequent terms or semesters. Depending on class subject, courses may be offered in semesters or terms different from those scheduled. Please be sure to check the time schedule for Liberal Arts Education subjects

Note 2: The credit obtained by mastery of "English-speaking Countries Field Research" or self-directed study of "Online Seminar in English A・B" cannot be counted towards the credit necessary for graduation. The credit obtained by Overseas Language Training can be recognized as Communication I or II if application is made in advance. For more details, please refer to the article on English in Liberal Arts Education in the student handbook.

Note 3: We have a recognition of credit system for foreign language proficiency tests. For more details, please refer to the article on English in Liberal Arts Education in the student handbook.

Note 4: Students must take "Elements of Information Literacy" provided in the first semester. You can take the "Exercise in Information Literacy" provided in the second semester only if you fail to obtain credit for "Information Utilization Basics."

Note 5: Students must take both 「Experimental Methods and Laboratory Work I (1credit)」 and 「Experimental Methods and Laboratory Work II (1credit)」.

Note 6: You should take subjects from fields other than the Natural Science field. Credits that have been obtained by taking Communication Basics can be included in this subject type.

## Cluster 2 Basic Specialized Subjects

◎ Required subject

○ Compulsory elective subject

△ Free elective subject

Class Subjects	Credits	Type of course registration		Class Hours/Week																Note
		Electrical Systems and Information Engineering	Electronic Devices and Systems	1st grade				2nd grade				3rd grade				4th grade				
				Spring		Fall		Spring		Fall		Spring		Fall		Spring		Fall		
				1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	
Applied Mathematics I	2	◎	◎			4														
Applied Mathematics II	2	○	◎					4												
Applied Mathematics III	2	◎	◎						4											
Discrete Mathematics I	2	○							4										(School of Informatics and Data Science)	
Synthesis of Applied Mathematics	2	○	○							4										
Engineering Mathematics A	2	△										4								
Engineering Mathematics C	2	△	○									4								
Probability and Statistics	2	◎	△					4												
Technical English	1	◎	◎											4						
Introduction to Energy and Information Systems	2	◎	◎				4													
Electric Circuit Theory I	2	◎	◎			4														
Programming I	2	◎	◎						4											
Programming II	2	◎	○							4										
Programming III	2	△										4								
Basic Experiments in Electrical Engineering I	2	◎	◎					10	10										take classes at one of the terms	
Basic Experiments in Electrical Engineering II	2	◎	◎							10	10								take classes at one of the terms	
Experiments in Electrical Engineering Electronics and System Engineering I	2	◎	◎									10	10						take classes at one of the terms	
Experiments in Electrical Engineering Electronics and System Engineering II	2	◎	◎											10	10				take classes at one of the terms	

(Program of Electronic Devices and Systems)

○ Compulsory elective subject

△Free elective subject

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				G		G											
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