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

 $\odot$  Required subject (period of registration specified)

 $\bigcirc$  Compulsory elective subject (any of these subjects shall be registered)

 $\triangle$  Free elective subject (any of these subjects shall be registered)

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Home of the second second Research and Research		Bas Jourse Jnive: Educa	Intr	oducto	ory Seminar	2	Introductory Seminar for First-Year Students	2	Required	$\odot$											
Hold of the second se		0 2 **				4	Courses in Arts and Humanities/Social Sciences	2	Compuls	0		0									
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Basic Subjects       16         CalculusII       2         Linear AlgebraI       2         Linear AlgebraII       2         Seminar in Basic Mathematics I       1         Seminar in Basic Mathematics I       1         General Mechanics I       2         Required       ©       0	eral A		Hea	lth an	d Sports Cou	2		1or2	ory	0	0	0	0								
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Free elective subjects     6     From all Subject Type     Free elective $\triangle$ $\triangle$ $\triangle$ $\triangle$ No. of credits required for the subject Type     18     18     18     10     10							Experimental Methods and Laboratory Work in Physics I (Note 5)		ł			0								_	
Free elective subjects     6     (Note 6)     elective $\bigtriangleup$ $\bigtriangleup$ $\Box$ $\Box$ No. of credits required for     48		From all Subject			1	Free				-							-				
		(Note 6)							$\bigtriangleup$	$\triangle$	$\triangle$	$\triangle$									
graduation <sup>40</sup>		No. of				48															

Note 1: When students fail to acquire the credit during the term or semester marked with  $\odot$ ,  $\bigcirc$ ,  $\triangle$  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 WorkI(lcredit)] and [Experimental Methods and Laboratory WorkII(lcredit)].

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 subje △Free elective subject

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Applied Mathematics I	2	$\bigcirc$	$\bigcirc$			4														
Applied Mathematics II	2	0	$\bigcirc$					4												
Applied Mathematics III	2	$\bigcirc$	$\bigcirc$						4											
Discrete Mathematics I	2	0							4											(School of Informatics and Data Science)
Synthesis of Applied Mathematics	2	0	$\bigcirc$							4										
Engineering Mathematics A	2	$\triangle$										4								
Engineering Mathematics C	2	$\triangle$	0								4									
Probability and Statistics	2	0	$\triangle$					4												
Technical English	1	0	$\bigcirc$											4						
Introduction to Energy and Information Systems	2	0	$\bigcirc$				4													
Electric Circuit Theory I	2	0	$\bigcirc$			4														
Programming I	2	0	$\bigcirc$						4											
Programming II	2	0	$\bigcirc$							4										
Programming III	2	$\triangle$										4								
Basic Experiments in Electrical Engineering I	2	0	$\bigcirc$					10	10											take classes at one of the terms
Basic Experiments in Electrical Engineering II	2	0	0							10	10									take classes at one of the terms
Experiments in Electrical Engineering Electronics and System Engineering I	2	0	0									10	10							take classes at one of the terms
Experiments in Electrical Engineering Electronics and System Engineering II	2	$\bigcirc$	0											10	10					take classes at one of the terms

## Cluster 2 Specialized Subjects

(Program of Electronic Devices and Systems)

◎ Required subject
 ○Compulsory elective subject
 △Free elective subject

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Electromagnetism I	2	$\bigcirc$					4												
Electromagnetism II	2	$\bigcirc$							4										
Exercise of Electromagnetism I	1	$\bigcirc$					4												
Exercise of Electromagnetism II	1	$\bigcirc$							2										
Electromagnetic Wave Propagation	2	$\bigcirc$										4							
Introduction to Physical Electronics	2	$\bigcirc$						4											
Quantum Mechanics	2	$\bigcirc$								4									
Thermodynamics and Statistical Mechanics	2	$\bigcirc$										4							
Solid State Physics	2	$\bigcirc$									4								
Surface Science and Nanotechnology	2	$\bigcirc$												4					
Introduction to Semiconductor Devices and Circuits	2	$\bigcirc$						4											
Solid State Physics	2	$\bigcirc$								4									
Semiconductor Device Engineering	2	$\bigcirc$										4							
Optoelectronic Semiconductor Devices	2	$\bigcirc$											4						
Electronic Material Engineering	2	$\bigcirc$												4					
Electric and Electronic Measurements	2	$\bigcirc$									4								
Electric Transient Phenomena	2	$\bigcirc$							4										
Logic System Design	2	$\bigcirc$					4												
CMOS Logic Circuit Design	2	$\bigcirc$										4							
Semiconductor Process Engineering	2	$\bigcirc$											4						
CMOS Integrated Design	2	$\bigcirc$												4					
Circuit Theory II	2	$\bigcirc$						4											
Electronic Circuits	2	$\bigcirc$								4									
Electric Energy Generation and Conversion	2	$\triangle$								4									
Fundamentals of Power Systems	2	$\triangle$									4								
Control Systems Engineering I	2	$\triangle$						4											
Control Systems Engineering II	2	$\triangle$								4									
Signal Processing Engineering	2	$\triangle$									4								
Bioelectrical Engineering	2	$\triangle$										4							
Robotics	2	$\triangle$											4						
Communication Engineering	2	$\triangle$											4						
Digital Circuit Design	2	$\triangle$							4										(School of Informatics and Data Science)
Computer Architecture	2	$\triangle$								4									(School of Informatics and Data Science)
Databases	2	$\triangle$								4									(School of Informatics and Data Science)
Computer Network	2	$\triangle$												4					(School of Informatics and Data Science)
Algorithms and Data Structures	2	$\triangle$							4										(School of Informatics and Data Science)
Human Computer Interaction	2	$\triangle$											4						(School of Informatics and Data Science)
Graduation Thesis	5	$\bigcirc$																	

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eral Arts Education eral Arts Education	Basic language II Information Courses	1	Elective	1semsester-2T 1semsester-2T	100	1																							100	1		
eral Arts Education	Health and Sports Courses	2	Elective	1.2semsester	100																								100	1		
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eral Arts Education	Seminar in Basic Mathematics I	1	Require	1semsester-2T			100	1													<u> </u>						-				-	
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cialized Education	Synthesis of Applied Mathematics	2	Elective	3semsester-2T 4semsester-3T									100																			
cialized Education	Engineering Mathematics A	2	Elective	5semsester-1T									100																			
ialized Education	Engineering Mathematics C Probability and Statistics	2	Elective	4semsester-4T									100																			
ialized Education	Technical English	1	Require	3semsester-1T 6semsester-4T									100	1																	100	1
cialized Education	Electric Circuit Theory I	2	Require Require	2semsester-3T							100	1																				
cialized Education	Programming I Programming II	2	Reguire	3semsester-2T 4semsester-3T											50 50	1			50 50	1												
cialized Education	Programming III	2	Elective	5semsester-1T											50	1			50	1												
cialized Education	Basic Experiments in Electrical Engineering I	2	Require	3semsester															50	1							50	1				
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ecialized Education	Exercise of Electromagnetism II	1	Elective	4semsester-3T											50	1	50	1														
ecialized Education	High-voltage Engineering	1	Elective	6semsester-3T													100	1														
cialized Education	Electric and Electronic Measurements	2	Elective	3semsester-2T, (5semsester-2T 3semsester-2T	)										100	1	100	1														
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cialized Education	Electronic Circuits Exercise of Electric Circuit	2	Reduire	4semsester-4T 3semsester-2T											50	1	50 100	1														
cialized Education	Electric Energy Generation and Conversion	2	Elective	4semsester-4T													100	1														
cialized Education	Fundamentals of Power Systems	2	Elective	5semsester-1T 6semsester-4T	-												100	1			-						-					
cialized Education	Power System Engineering Power Electronics and Motor Control Application	2	Elective	6semsester-41 6semsester-3T	-				-								100	1			-				-		-					
cialized Education	Nuclear Engineering	2	Elective	6semsester-3T													100	1														
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