

Positioning

When and how it is assigned

Criteria for Progra	
How it is assessed	
Position on giving feedback to students and	
Position on giving reedback to students and	

Cluster 2 (Electrical, Electronic and Systems Engineering)

- © Required subject (period of registration specified)
- O Compulsory elective subject (any of these subjects shall be registered
- \triangle Free elective subject (any of these subjects shall be registered)

						re		Type of	Year in which th												s semester) (Note 1 4th grade				
	S	ubje	ct Ty	pe	d No. of	Class subjects, etc.	No. of credits	course registra					2nd grade Spring Fall 1T 2T 3T 4T				Sp	3rd ring	grac		tn g ing				
					credits		creares	tion	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T						
	Pe	ace s	science	curse	2		2	ory		0															
	rses sity on		oducti versity	on to Education	2	Introduction to University Education	2	Required	0																
	Basic Courses in University Education	Intr		ry Seminar	2	Introductory Seminar for First-Year Students	2	Required	0																
	Basi in U Ec			Seminar	0		1	Free elective			Δ	\triangle													
	Area Courses			505	4	Courses in Arts and Humanities/Social Sciences	2	Compuls	0		0														
		Aite	a Cour	363	4	Courses in Natural Sciences	2	elective		0		0													
				Basic English	2	Basic English UsageI	1	Required	0	0															
				Usage	2	Basic English UsageII	1				0	0													
	S	səgı	Engli sh	Communic	2	CommunicationIA	1	ь	0	0															
	ıbject	angue	(Note2 · 3)	ation I	۷	Communication IB	1	Required	0	0															
	Common Subjects	Foreign Languages		Communic		Communication IIA	1				0	0													
jects	Comm	Fore		ation II	2	Communication IIB	1	Required			0	0													
n Suk	J	İ	(Select on	reign Languages le language from		1 subjects from Basic language I	1	Compuls	0																
lucatio		German, French, Spanisl Russian, Chinese, Korear and Arabic)	Chinese, Korean	2	1 subjects from Basic language II	1	ory elective																		
Liberal Arts Education Subjects			rmatio	on and Data ourses	2	Introduction to Information and Data Sciencies	2	Required		0															
iberal		Hea	lth an	d Sports Cou	2		1or2	Compuls ory elective	0	0	0	0													
Γ						CalculusI	2			0															
						CalculusII	2					0													
						Linear AlgebraI	2		0																
						Linear AlgebraII	2				0														
		Basi	c Subj	ects	16	Seminar in Basic Mathematics I	1	Required		0															
						Seminar in Basic Mathematics II	1					0													
						General Mechanics I	2		0													$ \bot $			
				General Mechanics II	2		_		0											$ \bot $					
						Experimental Methods and Laboratory Work in Physics I (Note 4)	1		_		0								<u> </u>			-		_	
						Experimental Methods and Laboratory Work in Physics II (Note 4) From all Subject Type	1	Free				0										\dashv			
				ubjects	6	(Note 5)		elective	Δ	Δ	Δ	\triangle													
	No. of		dits r aduatio	required for on	48																				

- Note 1: When students fail to acquire the credit during the term or semester marked with \bigcirc , \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
- Note 2: The credit obtained by mastery of 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 Foreign Language in Liberal Arts Education in the student handbook.
- Note 4: Students must take both \lceil Experimental Methods and Laboratory Work I (1credit) \rfloor and \lceil Experimental Methods and Laboratory Work II (1credit) \rfloor .
- Note 5: You should take subjects from the Area courses in Natural Sciences and Basic subjects.

Cluster 2 Basic Specialized Subjects

		COL	e of irse tratio																	
Class Subjects	lits	stems and	· Systems	1:	st g	grae	de	2	nd §	grad	le	3	rd g	grad	le	41	th g	grae	de	NT .
	Credits	Electrical, Systems and Information Engineering	Semiconductor Systems	Spi	Spring		Fall		Spring		Fall		ring	Fall		Spring		Fall		Note
		ıl	Semi	1T	2T	ЗТ	4T	1T	2T	3Т	4T	1T	2T	3Т	4T	1T	2T	3Т	4T	
Applied Mathematics I	2	0	0			4														
Applied Mathematics II	2	0	0					4												
Applied Mathematics III	2	0	0						4											
Discrete Mathematics I	2	0	\triangle						4											(School of Informatics and Data Science)
Synthesis of Applied Mathematics	2	0	0							4										
Engineering Mathematics A	2	\triangle	\triangle									4								
Engineering Mathematics C	2	\triangle	0								4									
Probability and Statistics	2	0	0					4												
Technical English	1	0	0											4						
Introduction to Energy and Information Systems	2	0	0				4													
Electric Circuit Theory I	2	0	0			4														
Programming I	2	0	0						4											
Programming II	2	0	0							4										
Programmgcr24 2Exp5en	rime	nts	(in	El	ect	ric	al I	Engi	neeı	ing	Ele	ctro	nics	an	d Sy	ste	m i	Eng	gine	ering II
		0	0																	
		0	0																	
			0																	
	2	0										5	5							

Cluster 2 Specialized Subjects

(Program of Electrical, Systems and Information Engineering)

R Class Hours/Week																			
	lits	cours	1:	st e	grad	le	2nd grade				3rd grade				4th grade				
Class Subjects	Credits	Type of course registration	Spr				Spr		_										Note
		Typ re	1T				1T												
Electromagnetism I	2	0		~ 1	0.1		2	2	0.1			~ 1	0.1				0.1		
Electromagnetism II	2	Δ							2	2									
Exercise of Electromagnetism I	1	\triangle					2	2											
Exercise of Electromagnetism II	1	Δ							1	1									
High-voltage Engineering	1	Δ											2						
Introduction to Semiconductor Devices and Circuits*	2	Δ						(4)				4							
Electric and Electronic Measurements	2	Δ						()	4										
Electric Transient Phenomena	2	0							4										
Circuit Theory IIA	2	0						4											
Electronic Circuits	2	0								4									
Exercise of Electric Circuit	1	0						2											
Electric Energy Generation and Conversion	2	0								4									
Fundamentals of Power Systems	2	0									4								
Power System Engineering	2	0												4					
Power Electronics and Motor Control Application	2	Δ												4					
Nuclear Engineering	2	Δ												4					
Regulations for Electrical Facilities	1	Δ															2		
Control Systems Engineering I	2	0						4											
Control Systems Engineering II	2	0								4									
Signal Processing Engineering	2	0										4							
Exercises in Measurement and Control Engineering	1	0							2										
Bioelectrical Engineering	2	0										4							
Robotics	2	0											4						
Communication Engineering	2	Δ										4							
Mathematical Programming	2	0					4												
Simulation Engineering	2	0							4										
Exercises in Systems Planning and Control	1	0										2							
Decision Making	2	0												4					
Production Control	2	0											4						
Social System Engineering	2	Δ									4								
Logic System Design I	2	Δ					4												(School of Informatics and Data Science)
Software Engineering I *	2	Δ						(4)				4							(School of Informatics and Data Science)
Introduction to Artificial Intelligence	2	Δ					4	` /											(School of Informatics and Data Science)
Computer Network	2	Δ												4					(School of Informatics and Data Science)
Algorithms and Data Structures*	2	Δ							(4)				4						(School of Informatics and Data Science)
Human Computer Interaction	2	Δ							\ /				4						(School of Informatics and Data Science)
Theory of Computing	2	Δ									4								(School of Informatics and Data Science)
Stochastic Modeling*	2	Δ								(4)				4					(School of Informatics and Data Science)
Graduation Thesis	5	0								\-/				_					Dam belefice)
*)Students can register 2nd grade			orno e	4~		l		L	<u> </u>	L	JI	1	L	L	JI	<u> </u>	<u> </u>		

^{*)}Students can register 2nd grade or 3rd grade.

Academic Achievements in Electrical, Systems and Information Engineering Program The Relationship between Evaluation Items and Evaluation Criteria

Excellent Very Good Good

The ethics and understanding about the relations between society and technology considered basically necessary for engineers.

Excellent Very Good Good

Understand relations between society and relations between society and technology, and be able to behave with a standard sense of ethics.

Understand relations between society and technology, and be able to behave behave with a standard sense of ethics.

Warginally understand relations between society and technology, and be able to behave with a standard sense of ethics.

Warginally understand relations between society and technology, and be able to behave with a standard sense of ethics.

Basic knowledge of mathematics such as Acquir (2) calculus and linear algebra, which is required knowle for scientists/engineers. and lin

Acquire and be able to utilize sufficient basic knowledge of mathematics such as calculus and linear algebra.

Acquire and be able to utilize standard basic

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Relationships between the evaluation items and class subjects Total Comprehensive Abilities

(2) (3) (4)

Weight ed subsessed values values values and evaluation evaluation in the litems in the Knowledge/Understanding

(2) (3)

ight ved values sed values of va Abilities/Skills

(3)

Ight venue ed values sed values of evaluat of evaluat of evaluation weighte (4) . values Subject type Class subjects n evaluat ion items ems in the ceauir Introduction to University Education 2 1semsester-1T 50 1 50 100 kequire Introductory Seminar for First-Year Students 2
Peace Science Courses 2
Area Courses (Courses in Arts and Humanities/Secial Sc) 4 Introductory Seminar for First-Y Peace Science Courses 1semsester-1T 1semsester-2T 100 Elective Elective lsemsester-1T, 2semsester-3 100 1 100 Area Courses (Courses in Natural Sciences) Elective 100 1 100 100 1 100 1 100 1 100 100 100 Basic English UsageI Basic English UsageII require require lsemsester (Intensive cor CommunicationIA reguire Communication IB 1semsester 100 1 100 Keathire Communication IIA 2semsester 100 1 100 Communication IIB Basic language I Basic language II 100 100 100 Elective Elective Require 1semsester-2T 100 1 100 1 1semsester-2T 100 100 100 100 1 · 2semsester 1semsester-2T Health and Sports Courses CalculusI Elective 100 100 require 100 CalculusII 2semsester-4T 1 кедине Linear AlgebraI 1semsester-1T 100 1 100 redbra Linear AlgebraII 2semsester-3T 100 100 100 100 100 Seminar in Basic Mathematics I Seminar in Basic Mathematics II 1semsester-2T 2semsester-4T 100 require 100 1 General Mechanics I 1semsester-1T Keduire General Mechanics II 2semsester-3T 100 100 kequire kequire kequire 2semsester-3T 2semsester-4T 2semsester-3T 3semsester-1T 100 1 100 100 100 100 50 50 1 Applied Mathematics I 100 1 Applied Mathematics I 1 Applied Mathematics III 3semsester-2T 100 100 Discrete Mathematics I
Synthesis of Applied Mathe Engineering Mathematics A 2 Elective 5semsester-1T 100 1 100 Engineering Mathematics C Probability and Statistics Elective 4semsester-4T 100 100 100 1 100 Technical English 100 require Electric Circuit Theory I 100 2semsester-3T 3semsester-2T 1 100 100 require Programming 1 cequire Programming II Programming III 4semsester-3T 50 1 50 1 100 5semsester-1T 3semsester 50 50 100 100 50 Basic Experiments in Electrical Engineering II 2 4semsester 50 1 50 1 100 Keathire 5semsester 50 1 50 1 100 3semsester-1T 2T 4semsester-3T 4T 3semsester-1T 2T 100 1 50 1 50 1 50 1 50 1 Electromagnetism I 100 100 100 100 Electromagnetism II
Exercise of Electromagnetism I
Exercise of Electromagnetism II 4semsester-3T 4T 50 1 50 100 100 100 High-voltage Engineering 6semsester-3T 100 1 100 Electric and Electronic Measurements 1 50 Electric Transient Phenomena 4semsester-3T 1 50 1 1 50 1 100 Require Circuit Theory IIA 3semsester-2T 100 Electronic Circuits
Exercise of Electric Circuit 4semsester-2T 4semsester-2T 4semsester-4T 50 100 100 100 100 50 1 rceqtiire Electric Energy Generation and Conversion
Fundamentals of Power Systems 5semsester-1T 100 Power System Engineering 6semsester-4T 100 100 6semsester-4T 6semsester-4T 8semsester-3T 100 100 100 Nuclear Engineering Regulations for Electrical Facilities Free electiv Control Systems Engineering I
Control Systems Engineering II
Signal Processing Engineering 3semsester-2T 50 50 100 4semsester-4T 5semsester-2T 4semsester-3T 50 50 50 50 100 require 100 1 100 5semsester-2T 6semsester-3T 5semsester-2T Bioelectrical Engineering 100 1 100 100 100 Communication Engineering

Mathematical Programming 100 100 50 Required 100 100 2 3semsester-1T 4semsester-3T 1 50 1 100 1 Simulation Engineering Kequire Exercises in Systems Planning and Control 1 5semsester-2T 100 1 100 100 100 Decision Making 100 100 100 Social System Engineering 5semsester-1T 100 50 Logic System Design I 3semsester-1T 1 100 Software Engineering I
Introduction to Artificial Intelliger
Computer Network 100 100 100 100 100 6semsester-3T 6semsester-4T 100 1 100 1 100 1 50 1 Computer Network
Algorithms and Data Structures 2 50 Theory of Computing
Stochastic Modeling 100 100 100 6semsester-3T 100 1 50 50 1 1 50 (4semsester-4T), 6semsester-4T 7 • 8semsester кеципе Graduation Thesis

