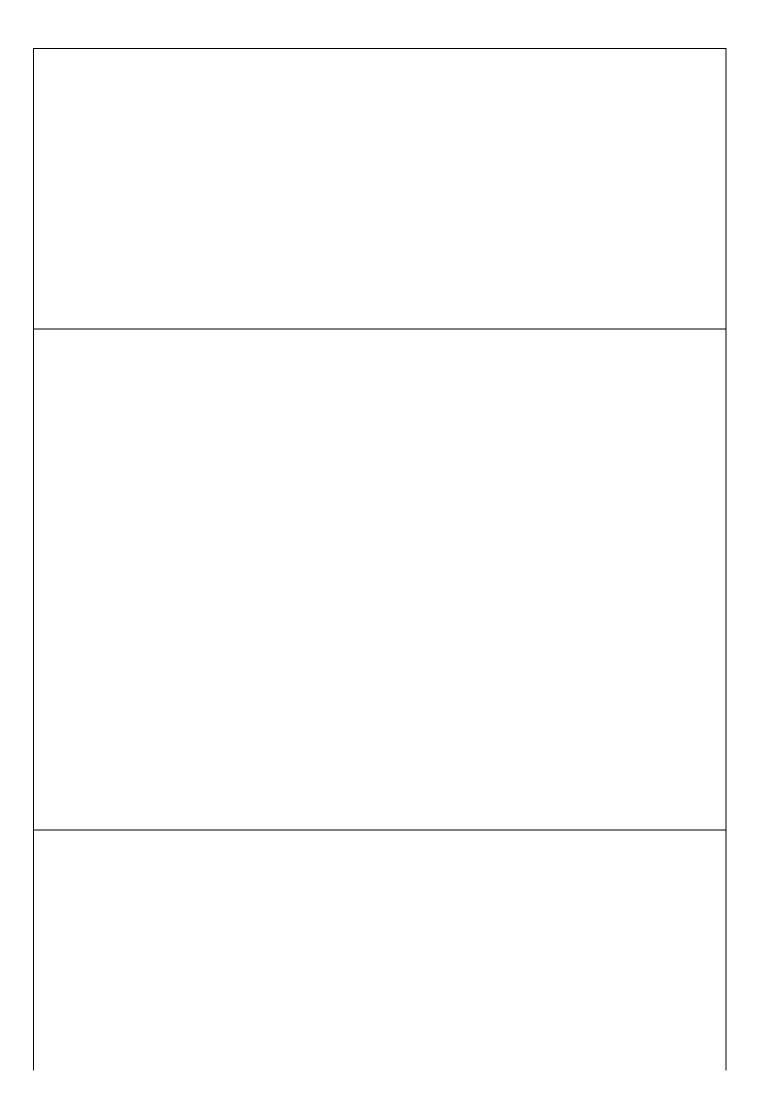
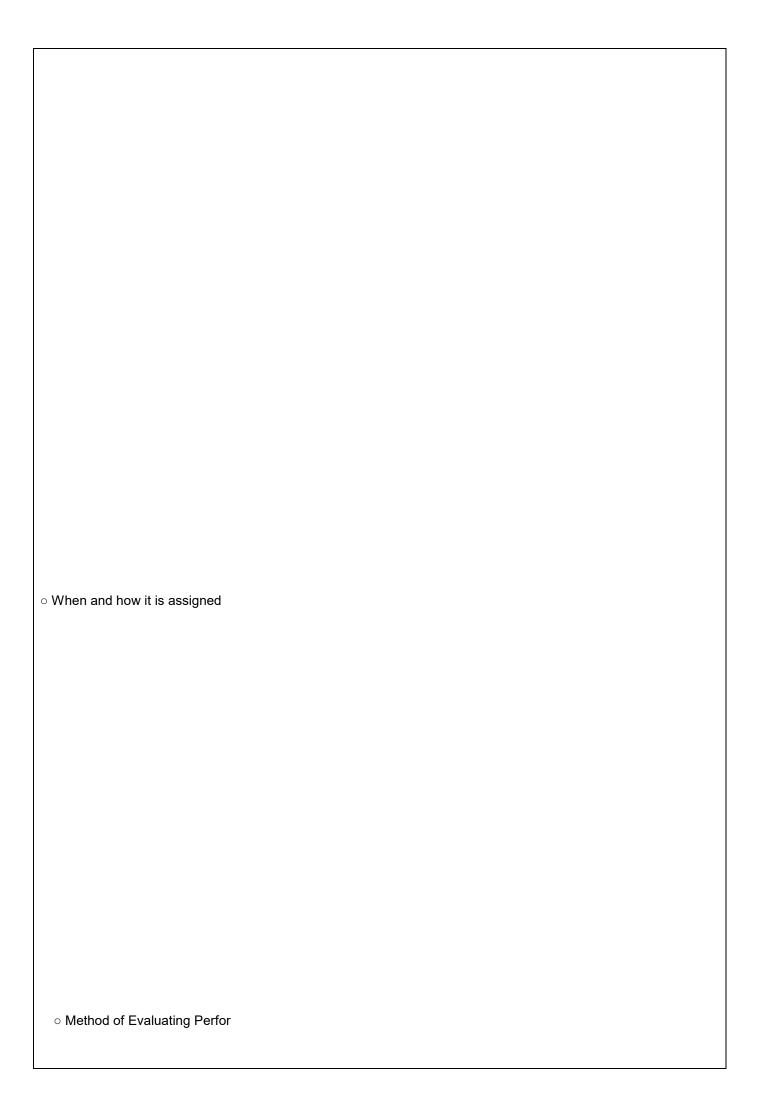
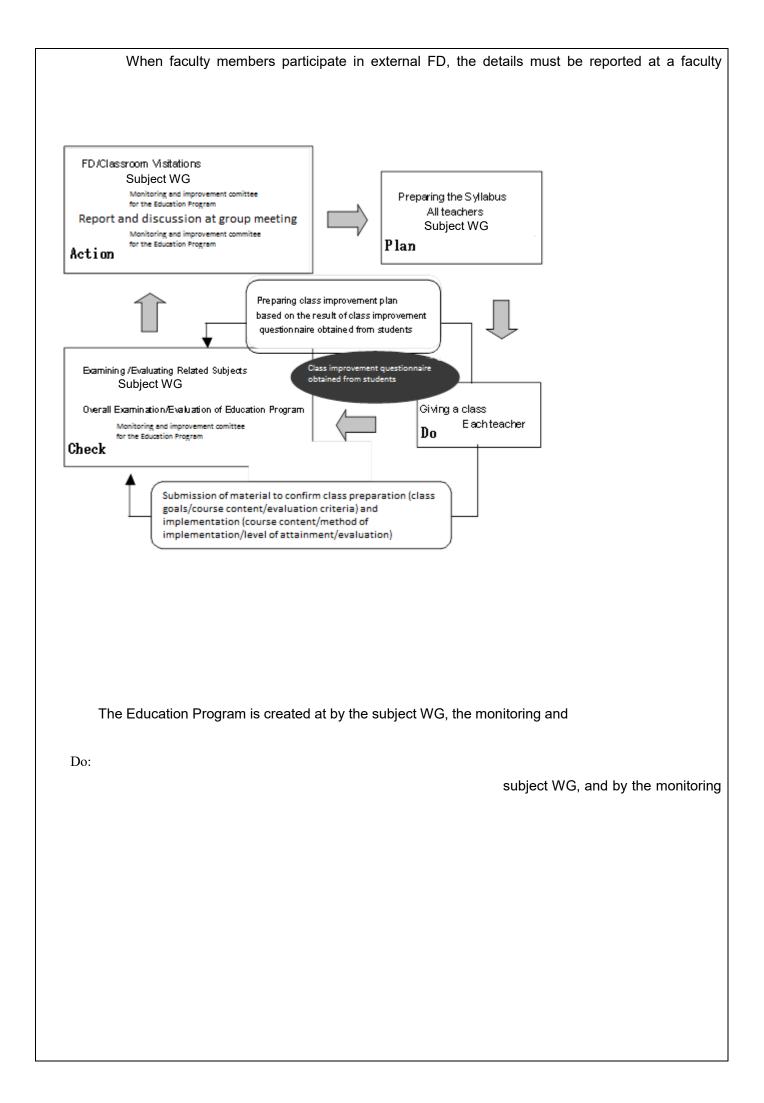
For entrants in AY 2024

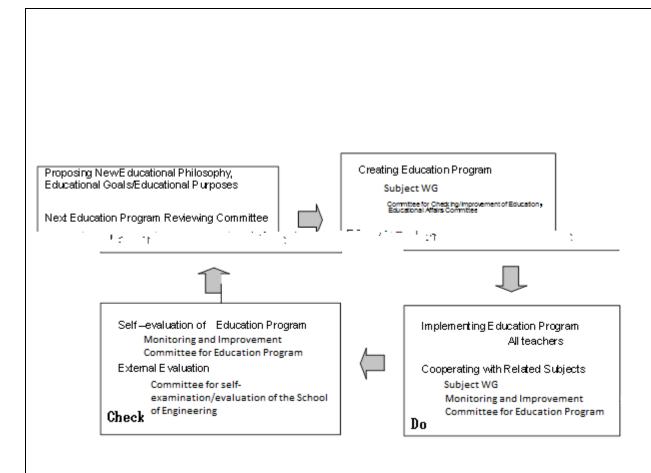


○ When to start the program		
0		
0		
	4	
	3 2	



o Other	
	t, a WG checks the syllabus prepared by the person in charge of the subject, then
WG	subject WG
	subject WG





detailed above, the subject WG and monitoring and improvement

Subject WG

ucation Program are divided into several categories. A subject WG is

In the subject WGs, class plans, achievements, and the result of classes given (based on class

While the responsibility for planning and implementing each subject, and its related subjects, lies with mentioned WGs, the responsibility for identifying and solving

This committee is composed of directors and the persons responsible for the subject WGs. The s of the subject WGs, as well as discussing problems with

Cluster 1 Mechanical Systems, Transportation, Material and Energy

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)

ç	Subject type	Required No. of	Class subjects, etc.	No. of	Type of course	Year in w 1st gr	hich the	ve subject (any of subject is taken(*1 2nd grade	he lower figu 3rd g	ure means sei grade	mester) Note 1 4th grade
	Subject type	credits	Class subjects, etc.	credits	registrat ion Compuls	Spring 1T 2T	Fall 3T 4T	Spring Fall 1T 2T 3T 4	Spring T 1T 2T	Fall Sp 3T 4T 1T	oring Fall f 2T 3T 4T
Pea	ace Science Courses	2		2	ory						
es in acation	Introduction to University Education	2	Introduction to University Education	2	Required						
Basic Courses in University Education	Introductory Seminar for First-Year Student	s 2	Introductory Seminar for First-Year Students	2	Required						
Basi Univer	Advanced Seminar	0		1	Free elective						
	A	4	Courses in Arts and Humanities/Social Sc	2	Compuls ory elective						
	Area Courses	4	Courses in Natural Sciences	2	Compuls ory elective						
	Basic English	2	Basic English Usage I	1							
		4	Basic English Usage II	1							
Common Subjects	Usage Engli sh (Note ation I Commun 2) Commun ation II Initial Foreign Language G (Select one language fror	ic 2	Communication IA	1	Required						
Suk	(Note ation I		Communication IB	1							
mmor	Commun	2.	Communication IIA	1	Required						
ටි	្នា ation II		Communication IIB	1							
		n	1 subjects from Basic language I	1	Compuls						
	German, French, Spanisi Russian, Chinese, Korea and Arabic)		1 subjects from Basic language II	1	ory elective						
			Introduction to Information and Data Sciencies	2	Required						
	Health and Sports Cours	es 2		1or 2	Compuls ory elective						
			Calculus I	2							
			Calculus II	2							
			Linear Algebra I	2							
			Linear Algebra II	2							
			Seminar in Basic Mathematics I	1							
		18	Seminar in Basic Mathematics II	1	Required						
	Danie Calling		General Mechanics I	2							
	Basic Subjects		General Mechanics II	2							
			Basic Electromagnetism	2							
			$\label{eq:continuous} Experimental \ Methods \ and \ Laboratory \ Work \ in \ Physics \ I \ \ Note$	1							
			$ Experimental \ Methods \ and \ Laboratory \ Work \ in \ Physics \ II \ \ Note $	1							
			General Chemistry	2	Compuls						
		2	Experimental Methods and Laboratory Work in Chemistry I. Note	1	ory elective						
			Experimental Methods and Laboratory Work in Chemistry II Note	1							

No. of credits required for graduation 46

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.

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 or

Note 3

Note 4

Cluster 1 Basic Specialized Subjects

Required subject Compulsory elective subject Free elective subject

			Type of	e		Class Hours/Week											
Class Subjects	ts	ical Systems Engineering ansportation as Systems in		nsfi		4th grad											
	Credits	Mechanical Systems Engineering Transportation Systems	Materials Processing	Energy Transfi	Spring	Fa	11	Spri	ing	Fall	Spring	Spring Fall	Note				
			Meck	Mate	En	1T 2T 3	3Т 4	4T	1T	2T 3	3T 4T	1T 2T 3T 47	Г 1Т 2Т 3Т 4Т	ı			
	Applied Mathematics I	2					4										
	Applied Mathematics II	2							4								
	Applied Mathematics III	2									4						
	Engineering Mathematics A	2										4					
dr	Engineering Mathematics C	2									4						
group	Probability and Statistics	2							4								
1st	Synthesis of Applied Mathematics	2										4					
	Practice of Mechanics	1					4										
	Introduction of Mechanical and Transportation Engineering	2					4										
	Technical English	1							2	2							
	Basic Engineering Computer Programming	2								4							
	Mechanics of Material I	2							4								
	Thermodynamics I	2							4								
	Fluid Dynamics I	2								4							
_	Control Engineering I	2								4							
roug	An Introduction to Engineering Materials	2							4								
2nd group	Fundamentals of Materials Processing	2								4							
21	Machine Design and Drawing	1					3	3									
	Computer Aided Design	1							3	3							
	Machine Shop Training (a)	1					3	3									
	Machine Shop Training (b)	1							3	3							

Students can select either Machine Shop Training (a) or Machine Shop Training (b)

Cluster 1 Specialized Subjects Program of Transportation Systems

Required subject Compulsory elective subject Free elective subject

		4)	Class Hours/Week																
	its	Type of course registration	10	1st grade 2nd grade											4th grade				
Class Subjects	Credits	e of cours istration					_				_				Spri				Note
	$C_{\mathbf{I}}$	Type reg													1T:				
C	0		11	<u> 4 1</u>	91	41	11	<u> </u>		41	11	<u> 4</u> 1	91	41	114	41	91	41	
Summary of Applied Analysis Basic Electrical and Electronic	2								4					4					
Engineering	2									_				4					
Instrumentation Engineering	2									4									
Engineering Computer Programming	2											4							
Experiments and Analytical Procedures in Transportation Systems	2										6								
Ship Design and Practice	2								6										
Transportation Systems Project	4												4	4					
Fluid Dynamics for Vehicle and Environmental Systems	2									4									
Structural Mechanics	2								4										
Fundamentals in Dynamics	2								4										
Project Management	2									4									
Aircraft Design and Practice	2											6							
Structural Analysis and Design	2												4						
Theory of Elasticity	2											4							
Theory of Vibration	2										4								
Design of large scale systems	2												4						
Remote sensing	2											4							
Natural-Energy Utilization Engineering	2													4					
Viscous fluid and Turbulence	2										4								
Ocean-Atmosphere Systems	2												4						
Mathematical Optimization	2									4									
Transportation Vessels and Vehicles I	1										2								
Transportation Vessels and Vehicles II	1											2							
Transportation Vessels and Vehicles III	1											2							
Logistics Planning and Design	2													4					
Internship	1												3	3					
Graduation Thesis	5																		

Academic Achievements in Transportation Systems Program The Relationship between Evaluation Items and Evaluation Criteria

Excellent

To be able to sufficiently understand the current status of earth's environment and Cultural subjects: Acquiring general knowledge from viewpoints of Nature. possible future problems. Also, to be able to adequately state multiple scientific perceptions concerning engineering To be able to sufficiently understand

> With regard to classes of information engineering, to be able to adequately understand information process technology based on mathematics and mechanics. Being able to fully explain the validity and

mathematics, mechanics, kinematics, etc.

Very Good

At the standard level, to be able to understand the current status of earth's environment and possible future problems.
Also, to be able to state multiple scientific perceptions concerning engineering
To be able to understand, in standard level, equations which dominate major elements of equations which dominate major elements of which dominate major elements of phenomena, through basic subjects such as phenomena, through basic subjects such as phenomena, through basic subjects such as mathematics, mechanics, kinematics, etc.

> With regard to classes of information engineering, to be able to understand information process technology based on mathematics and mechanics at the

Good

At the minimum level, to be able to understand the current status of earth's environment and possible future problems.
Also, to be able to state multiple scientific perceptions concerning engineering
To be able to understand, at least, equations mathematics, mechanics, kinematics, etc.

With regard to classes of information engineering, to be able to understand information process technology based on mathematics and mechanics at the standard

- (1) knowledge from viewpoints of Industry Human and Society Science, and the understanding of a sense of ethics. Mathematical and mechanical subjects: To understand basic
 (2) knowledge of mathematical dynamical system, which is essential
- knowledge for engineers and Information engineering subjects: To (3) acquire understanding and basic knowledge required for engineers and researchers
- The area of structural engineering: The ability to apply the technical (4) knowledge on structural engineering to solve issue related with transportation equipment and coexistence with the environment

	Weighte d values of evaluation items in the construction in the construction in the construction of evaluation in the construction of the construc	of valuati of on items	uesluoti	values of evaluation iter	ti of evaluati on	weights walues ed values of eitems evaluati	of avaluati	Weights ed d values of evaluati on ites	ti values	or evaluati	values	evaluati on items	evaluati on	items values	of evaluati	ed values	of evaluati	ralues	evaluati	ed values	evaluati	values	
	in the subject on iter	in the ns subject on	items subject	on items in the	on itame In	the on items	in the subject	on items subject		in the subject	on items	subject	on items su	on iter	in the subject	of evaluati on items	subject	on items s	subject	on items	n the subject	on items	
Liberal Arts Education Introduction to University Education 2 Required Issumsest Liberal Arts Education Introductory Sentings for Pinet Year Scadents 2 Required Issumsest								50 50	1 1														100 100
Liberal Arts Education Advanced seminar 1 Elective 2semses								50															100
Liberal Arts Education Peace Science Courses 2 Elective 1semses	50 1							50	1														100
Liberal Arts Education Basic English Usage I 1 Required teemsest																					100	1	100
Liberal Arts Education Basic English Usage II 1 Required 2-connect Liberal Arts Education Communication I 1 Required 1-connect																					100 100	1	100 100
Liberal Arts Education Communication I 1 Required 1-semses																					100	1	100
Liberal Arts Education Communication II 1 Required 2semses																					100	1	100
Liberal Arts Education Communication II 1 Required 2 senses																					100	1	100
Liberal Arts Education Basic language I 1 Elective teamest Liberal Arts Education Basic language II 1 Elective teamest																					100 100	1	100 100
Liberal Arts Education Introduction to Information and Data Sciencies 2 Required Issemsest	er.		50	1								50	1									_	100
Liberal Arts Education Area Courses Arts and Humanities/Suisi Sciences) 2 Elective 1.2 economic								50															100
Liberal Aris Education Area Courses Natural Sciences) 2 Elective 12-courses Liberal Aris Education Health and Sports Courses 1,2 Elective 12-courses	50 1 50 1							50 50															100 100
Liberal Arts Education Calculus I 2 Required 1-semses		50	1					80	1	50	1												100
Liberal Arts Education Calculus II 2 Required 2-senses	er .		1							50	1												100
Liberal Arts Education Linear Algebra			1							50	1												100
Liberal Aris Education Linear Algebra II 2 Required 2000meet Liberal Aris Education Seminar in Basic Mathematics I 1 Required 1000meet			1							50 50	1												100 100
Liberal Arts Education Seminar in Basic Mathematics II 1 Required 2-comment			1							50	1												100
Läberal Arts Education General Mechanics I 2 Required temmest			1							50	1												100
Liberal Arts Education General Mechanics II 2 Required 2000meet Liberal Arts Education Basic Electromagnetism 2 Required 3000meet			1							50 50	1												100 100
Liberal Arts Education Suprimental Methods and Laboratory Work in Physical 1 Required 2 seemants			1							50	1												100
Liberal Arts Education Experimental Methods and Laboratory Work in Physics 1 Required 2-consect	r.		1							50	1												100
Liberal Aris Education General Chemistry 2 Elective Sommers Liberal Aris Education Experimental Methods and Laboratory Works (Namers): 1 Elective 200mers			1							50	1												100 100
Laberal Arts Education Symmetrial Methods and Laberatory Work in Chemistry 1 Elective 2 community Laberal Arts Education Symmetrial Methods and Laberatory Work in Chemistry 1 Elective 2 community			1							50 50	1												100
Specialized Education Applied Mathematics I 2 Required 2-consect	or .	50	1							50	1												100
Specialized Education Applied Mathematics II 2 Required 3sement			1							50	1												100
Specialized Education Applied Mathematics III 2 Required temperature Specialized Education Probability and Statistics 2 Required 3semsest			1							50 50	1												100 100
Specialized Education Practice of Mechanics 1 Elective 2-comment	er.		1							50	1												100
Specialized Education Introduction of Mechanical and Transportation Engineering 2 Required 2-seminost																			100	1			100
Specialized Education Technical English 1 Required Sommond Specialized Education Basic Engineering Computer Programming 2 Required Sommond			50	1								50	11								100	1	100
			00	•								00	11										

Curriculum Map of Transportation Systems

