

Appended Form 1

Specifications for Major Program

Name of School (Program) [School of Engineering, Cluster 4  
(Social and Environmental Engineering)]

Program name (Japanese)	建築プログラム
	Program of Architecture and Building Engineering
(English)	
1. Academic degree to be Acquired : Cbd f ef ff F ff	

2. Overview

(1) P f f F -cb fe Cbd f Ef ff Q b

This program aims to foster and produce future members of a global society who have the knowledge to be innovative, creative, take leadership, and possess language abilities that will help them play an important role in the international world.

specialized education designed to achieve the following goals:

L f e f b e B c f

(A) The ability to contribute to the realization of peaceful living environments through the creation of architecture (development of professionals who can contribute to a peaceful living environment)

(B) The ability to contribute to social progress and human happiness (development of professionals that can contribute to human happiness)

(C) Possession of a deep personality and ethics as an engineer (cultivation of ethics as engineers)

(D) Possession of basic knowledge of engineering in architecture (acquisition of basic knowledge of engineering)

B c f b e T

(E) Possession of comprehensive, individual expertise and abilities in architecture (acquisition of architectural expertise and abilities)

P f b b c

(F) Possession of design capabilities (cultivation of design capabilities)

(G) Possession of Japanese communication skills and international communication skills (cultivation of communication skills)

(H) The ability to undertake personal development and continued training on a permanent basis (cultivation of ability to undertake personal development and continued training)

(I) Possession of the ability to make precise and rational plans, and to implement them (cultivation of ability to make plans and to implement them)

#### 4. Curriculum Policy (Policy for Preparing and Implementing the Curriculum)

The Program of Architecture and Building Engineering organizes and implements a curriculum according to the following policy, so that students may achieve the goals A to I in the academic awards policy.

Learning outcomes are evaluated based on the grade calculation for each subject and the level of attainment against the goals set by the education program.

U f f b f f f d b c f d b e f f b f b M c f b b f e d b c f d -  
T f d b f e C b d T c f d - b e T f d b f e T c f d

T e f f b b c f b b f d u c a t i o n s u b j e c t s i n t h e f i r s t y e a r w h e n t h e y a r e e n r o l l e d i n s c h o o l o f  
f f f ) d f 5 \* U f f c f b b f e d b c f d d e f J e d T f b G - Z f b T e f -  
Q f b d f T d f d f D f - f b b f - b e b f b d b e h y s i c s , a s f o u n d a t i o n c o u r s e s . S t u d e n t s a l s o  
f b B f e N b f b d l - b e D f b B d f d b T b d f b f c f f f d b f e c b d  
s u b j e c t s .

X f e f b e b d f f f d e f b - b e b f f P r o g r a m o f A r c h i t e c t u r e a n d B u i l d i n g  
E n g i n e e r i n g e f d e f e - f e T f d b f e C b d T c f d b e T f d b f e T c f d U f  
T f d b f e C b d T c f d b e f f b f f d e b e e f b d e f c f d C e  
F f f d b c e b f b b e f d f e d d f f d f - c f d B d f d b  
F f - b e c f d B d f d b Q b d b b d f d b - c e f b -  
p l a n n i n g , a r c h i t e c t u r a l p l a n n i n g , a n d a r c h i t e c t u r a l d e s i g n d r a w i n g .

C f b b b f c f d f f e f f f e - b e b e f f f f f d b b - b f b d b -  
s t u d e n t s a c q u i r e t h e c o m p r e h e n s i v e k n o w l e d g e a n d m e t h o d o l o g y n e c e s s a r y t o u n d e r t a k e a r c h i t e c t u r e i n t h e 2 1 s t  
c e n t u r y .

U f b d b e f c r e s u l t s a r e c h e c k e d a t t h e e n d o f t h e t h i r d y e a r , a n d q u a l i f i c a t i o n f o r u n d e r t a k i n g a g r a d u a t i o n t h e s i s  
i s j u d g e d . A f t e r t h i s j u d g m e n t h a s b e e n m a d e , w h e n s t u d e n t s a d v a n c e t o t h e f o u r t h y e a r , t h e y a r e a s s i g n e d t o a  
l a b o r a t o r y , s e l e c t t h e i r s u b j e c t o f s p e c i a l i z e d r e s e a r c h , b e g i n t h e i r g r a d u a t i o n r e s e a r c h , i n c l u d i n g e x p e r i m e n t s ,  
s u r v e y s , e t c . , u n d e r g o f i n a l e x a m i n a t i o n o f t h e i r f i n i s h e d g r a d u a t i o n t h e s i s , a n d , f i n a l l y , o b t a i n g r a d u a t i o n a n d t h e i r  
a c a d e m i c d e g r e e .

T e f b d f f b B ) e f f f p r o f e s s i o n a l s t h a t c a n c o n t r i b u t e t o p e a c e f u l l i v i n g e n v i r o n m e n t s ) t h r o u g h  
b f c f b b f e d b c f d Q f b d f T d f d f D f f f e f f b - b e f f d b f e  
c f d Q f b d f V c b b e B d f d f f f e f e f b .

S t u d e n t s a c h i e v e g o a l B ( d e v e l o p m e n t o f p r o f e s s i o n a l s t h a t c a n c o n t r i b u t e t o h u m a n h a p p i n e s s ) t h r o u g h m a s t e r y  
f f d b f e c b d c f d B d f d b Q b J b e U Q b o f f e r e d i n t h e s e c o n d y e a r .

Students achieve goal C (cultivation of ethics as engineers) through mastery of the specialized basic subjects C e Be b - and the specialized subject C e D d , b e F d B d fd f f fe the third year.

Students achieve goal D (acquisition of basic knowledge of engineering) through mastery of the specialized basic cfd B feNb f b d J JJ- Q cbc b eTb d - Dfb B d fd b T bdf -b e D f Ufd B d fd f f fe f fb ough the second year.

T ef bd f f b F )bd b d fd b f f f b e bc f \* b f Dfb B d fd b T bdf f fe f fb -b e fd f c e f ff -b d fd b f f - and architectural planning offered from the second year through the third year.

T ef bd f f b G )d b ef db bc f \* b f f fdb fe cb d cfd B d fd f E b f fe f fd e fb -b e f fdb fe cfd Q fd Nb b f f C e - B d Qbd df -b e T d b Ef f fe f e fb f fb T ef bd f f b H )d b d db \* b f cf b b fe db cfd , f b b f -b e J e d Tf b G -Zfb T ef f fe f fb - f fdb fe cb d cfd F fd f Ufd db F f fe f fd e fb -b e f fdb fe cfd Tf b

Architecture I, JJ f fe in the third year.

T ef bd f f b I )d b f bc ef b f f b ef f f b e d fe b \* b f f fdb fe cb d cfd B d fd b Q fd b e Eb JJ f fe f fd e fb - and thf fdb fe cfd - Gf e F fd f C e - Gf e X B d fd f -b e H be b U f offered from the third year through the fourth year.

T ef bd f f b J )d b f bc b f b b e f f f \* ough mastery of the fdb fe cfd B d fd b Q fd b e Eb JJ IV,

on evaluation criteria calculated by adding the weighted values to the numerically-converted values of their academic achievements (S = 4, A = 3, B = 2, and C = 1) in each subject being evaluated.

F b b bdbef d	D f f e
bd f f f	b f
T )F df f : 1 f *	5
B )T f 91-9: *	4
C )H e 81-8: *	3
D )Gb 71-7: *	2

Bdbef dbd f f f	F b b
	d f b
F df f	4 11-5 11
W H e	3 11-3 ::
H e	2 11-2 ::

\* See the relationship between evaluation items and evaluation criteria in the attached sheet 2.

\* See the relationship between evaluation items and class subjects in the attached sheet 3.

\* See the curriculum map in the attached sheet 4.

#### 9. Graduation Thesis (Graduation Research) (Purpose, when and how it is assigned, etc.)

Q f

The graduation thesis is intended to be a major subject for the achievement of the following learning and educational goals.

L f e f b e Bc f )E\*Q f cb d engineering knowledge in architecture

Bc f b e T )F\*Q f d f f f- e e b f f f b e bc f b d f d f

P f b bc f )G\*Q f ef db bc f

P f b bc f )H\*Q f Kb b f f d db b e f btional communication skills

P f b bc f )I \*Q f f bc ef b f f b ef f f b e d f e b

on an ongoing basis

P f b bc f )J\*Q f f bc b f f d f b e b b b -b e f f nt them

X f b e b f e

When it is assigned: At the start of fourth year (only those who meet the conditions for undertaking a graduation thesis are to be assigned.)

Conditions for undertaking a graduation thesis

(1) Students must acquire 46 credits in liberal arts education.

(2) Students must acquire 38 or more credits (including all compulsory subjects) in the basic special courses of the specialized education.

(3) Students must complete Architectural Project and Drawing III, IV .

(4) Out of the total number of credits in basic special education and special education to be acquired before graduation (excluding the 5 credits for graduation thesis), the number of credits yet to be obtained should be 10 or fewer.

I ef b f b f e

Details of each laboratory to which students can be assigned, as well as details of research undertaken by supervisors and the assignment policy (the number of students acceptable to each laboratory and supervisor, etc.) are to be explained by the provided guidance given to students. Depending on academic results in Architectural Project and Drawing, about 10% of students who can undertake a graduation thesis will be able to submit graduation designs as their thesis.

Assignment is decided according to the requests of students who can undertake a graduation thesis. However, since the number of acceptable students is limited, adjustments may be made.

#### 10. Responsibility System

)2\* QEDB f c f )Qb - E - D f d - b e Bd \*

In this program, the architectural studies group, consisting of the teachers in charge. and its subsidiary, the self-assessment evaluation committee, are organized in order to check and improve the program. Under these committees, a curriculum examination working group, a planning examination working group for faculty development (FD), and an external evaluation working group are established. For the smooth running of the educational program in each area, these committees and working groups check and evaluate the learning and

educational goals, the evaluation methods used to judge levels of attainment, and the whole educational system (educational methods, educational environment, etc.) (Check), examine educational improvement methods (Act), make improvement plans to improve learning and educational goals, educational methods, and the educational environment (Plan), and implement these plans (Do). In this way, the PDCA improvement cycle is established. This program has a system under which all the teachers in charge, centering on the program manager, cooperate and move forward.

## (2) Program evaluation

D f b b f b b

In this program, evaluation is carried out according to the following evaluation criteria.

X f f b f e db f b b f f b able to check the program based on the evaluation results of learning and the attainment level of educational goals, whether its mechanism is disclosed, and whether the related activities are being implemented

X f f f f e db f b b f d ains mechanisms that take into consideration the requirements of society or requests from students, and whether it is organized so as to check the functioning of the education check system itself

X f f f f b d f f e b b f b c f iew the records of the meetings

or committees that constitute the education evaluation system

X f f f f b f b d f b f f b d cb f e f f f e db

evaluations, and whether the related activities are being conducted

l f b f b b f e ) f b db f b b cf ef d cf e\*

The architectural studies group and each committee focus on evaluation and improvement of the program. The most important things are the following two points.

F b b b e f f f b b f d e d f e b e b cb b e b f b d b f

Sf b e f f f f b b e f e db b b -f b b f e -b e f b b b e b e

attainment levels are conducted continuously.

U f f -assessment evaluation committee implements the following unique questionnaires as part of the program evaluation.

B f b f b f f e b ef -bc f f b f f

B f b f b f f e b f b d f -bc f d f implementation status, lecture improvement plans, opinions about other lectures, etc.

B f b f d f f b b e f e db b b b e f b e f f b b b b f f f

(targeted at graduates and companies)

The architectural studies group requests the committees to check the program, present their improvement plans, and prepare FD proposals, and, after discussing the reports and proposals submitted by the committees, the group decides on the improvement strategy. As the group consists of all teachers in charge of the program, the evaluation and improvement strategy decided here is considered to have been explained to all members, and is then put into action. In particular, regarding matters associated with the curriculum, the curriculum examination working group in the self-assessment evaluation committee makes its own checks and proposes the necessary improvement plan. The validity of this program from the point of view of society is checked by the external evaluation working group, evaluated by external academics, and checked by means of a questionnaire targeted at employers and graduates. These activities are conducted on an ongoing basis.

U f f e c b d ef b e d e d f e

In this program, tutors k f f b d ef c b f e d f e b d b cb -b e- f f

students at the end of the semester, tutors give guidance so that students can achieve the learning and educational

b U b f e ef f b e ef d b ef T ef f f b f

obtained from tutors, which are reflected in the improvement of this program. Furthermore, based on the results of the class evaluation questionnaire targeted at students, an improvement questionnaire about class improvement measures, etc. targeted at teachers is carried out. This program improves classes in response to student requests.

## Cluster 4 (Civil Engineering and Architecture)

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	No. of credits	Type of course registratio	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	Spring	Fall
						1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T	1T	2T	3T	4T
L i b e r a l  A r t s  E d u c a t i o n  S u b j e c t s	Peace Science Courses			2	Compulsory elective																
	Basic Courses in University Education	Introduction to University Education		2	Required																
		Introductory Seminar for First-Year		2	Required																
	Common Subjects	Area Courses		4	Compulsory elective																
				4																	
		Foreign Languages	Basic English Usage	0	Free elective																
			Communication I	2	Required																
			Communication II	2	Required																
			Initial Foreign Languages (Select one language from German, French, Spanish, Russian, Chinese, Korean and Arabic)		Compulsory elective																
		Information and Data Science Courses		2	Compulsory elective																
		Health and Sports Courses		2	Compulsory elective																
	Basic Subjects		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	Free elective																
	No. of credits required for graduation			46																	

- Note** 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 to be issued every year.
- Note** 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 \_\_\_\_\_ or \_\_\_\_\_ 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** 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** 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** Students must take both Experimental Methods and Laboratory Work 1credit and Experimental Methods and Laboratory Work \_\_\_\_\_
- Note** Students can calculate the credits of Basic English Usage.

⊙	Required subjects
①, ②, ③	Compulsory Elective
○, ④, ⑤, ⑥, ⑦, ⑧	subjects
△	Request Subjects

[illegible]

◎ Required subjects  
 ①, ②, ③ } Compulsory Elective subjects  
 ○, A, B, C, D } Request Subjects  
 △

Class Subjects	Credits	Type of course registration	Class Hours/ Week																Note
			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	
Architectural Project and Drawing I	2	◎					6	6											
Architectural Project and Drawing II	2	◎						6	6										
Architectural Structural Mechanics I	4	◎					4	4											
Architectural Structural Mechanics II	4	◎						4	4										
Vibration Theory of Buildings	2	○											4						
Reinforced concrete structure	2	Ⓐ									4								
Geotechnical and Architectural Foundation Engineering	2	○											4						
Building Administration	2	◎									4								
Field Exercises of Building	1	Ⓓ								1	1	1	1						
History of Japanese Architecture	2	Ⓒ							4										
Architectural Planning I	2	◎						4											
Town Planning	2	○								4									
Architectural Environments I	2	Ⓑ					4												
Architectural Environments II	2	Ⓑ							4										
Exercises in Environmental Science	1	Ⓑ										4							
History of contemporary architecture I	2	□									4								
Field Work in Architecture	1	○												3	3				
Computer Technology in Architecture	2	○								4									
Design Concepts of Steel Structures	2	□							4										
Architecture drawings	2	○					4												

※1 As the course is offered every other year, you should take either of the courses.  
※2 Civil and Environmental Engineering is offered in the second semester of the second year, while Architecture and Building Engineering is offered in the first semester of the third year.



**Cluster 4 Specialized Subjects**  
(Program of Architecture and Building Engineering)

### ©Required subjects

○, (E), (F) Compulsory Elective subjects

Class Subjects	Credits	Type of course registration	Class Hours/ Week																Note
			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	
Methods of Structural Analysis	2	○											4						
Earthquake Resistant Structures	2	○											4						
Structural Design	2	○														6			
Building Construction	2	ⓔ									4								
Disaster Prevention of Buildings	2	○													4				
Seminar in Architecture I	2											4							
Design of Steel Structures	2	○									4								
History of contemporary architecture II	2	ⓕ											4						
Architectural Planning II	2	ⓕ							4										
Building Services I	2	⊙									4								
Building Services II	2												4						
Architectural Project and Drawing III	3	⊙									9	9							
Architectural Project and Drawing V	2	○													6	6			
Architectural Project and Drawing IV	3	⊙											9	9					
Seminar in Architecture II	2												4						
Seminar in Architecture III	1														1	1			
Ethics of Architecture	2	⊙											4						
Graduation Thesis	5	⊙																	

# Academic Achievements in Architecture and Building Engineering

## The Relationship between Evaluation Items and Evaluation Criteria

	Excellent	Very Good	Good
(A)	Understanding on development of human resources who can contribute to a peaceful global environment. (Being able to name symbolic buildings of peace city Hiroshima and to describe their characteristics. Being able to explain the city planning and history designed for peace. Being able to express their opinions to create a peaceful environment)	Understand development of human resources who can contribute to a peaceful global environment. (Being able to name symbolic buildings of peace city Hiroshima and to describe their characteristics. Being able to explain the city planning and history designed for peace. Being able to express their opinions to create a peaceful environment)	Understand outline of development of human resources who can contribute to a peaceful global environment. (Being able to name symbolic buildings of peace city Hiroshima and to describe their characteristics. Being able to explain the city planning and history designed for peace. Being able to express their opinions to create a peaceful environment)
(B)	Understanding on development of human resources who can contribute to human happiness. (Being able to explain domestic and global issues, and to express their opinions. Learning liberal arts for social science to find a direction from a global point of view)	Understand development of human resources who can contribute to human happiness. (Being able to explain domestic and global issues, and to express their opinions. Learning liberal arts for social science to find a direction from a global point of view)	Understand outline of development of human resources who can contribute to human happiness. (Being able to explain domestic and global issues, and to express their opinions. Learning liberal arts for social science to find a direction from a global point of view)
(C)	Understanding on cultivation of a sense of ethics for engineers (Being able to enumerate and explain examples for effects of actions and products of engineers on our society and to express their opinions. Learning liberal arts for humanities and social science to find their directions from a global point of view)	Understand cultivation of a sense of ethics for engineers (Being able to enumerate and explain examples for effects of actions and products of engineers on our society and to express their opinions. Learning liberal arts for humanities and social science to find their directions from a global point of view)	Understand outline of cultivation of a sense of ethics for engineers (Being able to enumerate and explain examples for effects of actions and products of engineers on our society and to express their opinions. Learning liberal arts for humanities and social science to find their directions from a global point of view)
(D)	Understanding on learning basic engineering knowledge. (Being able to explain basic contents of mathematics, physics and information technology. Being able to apply the basic contents to architecture and building engineering)	Understand learning basic engineering knowledge. (Being able to explain basic contents of mathematics, physics and information technology. Being able to apply the basic contents to architecture and building engineering)	Understand outline of learning basic engineering knowledge. (Being able to explain basic contents of mathematics, physics and information technology. Being able to apply the basic contents to architecture and building engineering)
(E-1)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)	Understand cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)	Understand outline of cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)
(E-2)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability a) Basic knowledge and ability for architectural design and planning)	Understand cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability b) Basic knowledge and ability for architectural environments)	Understand outline of cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability b) Basic knowledge and ability for architectural environments)
(E-3)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability c) Basic knowledge and ability for structural engineering)	Understand cultivation of expert knowledge and ability for architecture and building engineering. ((1) General and basic knowledge and ability c) Basic knowledge and ability for structural engineering)	

Relationships between the evaluation items and class subjects

Subject type	Class subjects	credits	Period	Evaluation items																Total weights d values of evaluati on items in the subject								
				Knowledge and Understanding								Abilities and Skills									Comprehensive Abilities							
				(A)	(B)	(C)	(D)	(E-1)	(E-2)	(E-3)	(E-4)	(F)	(G)	(H)	(I)													
Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject	Weights d values of evaluati on items in the subject										
Liberal Arts Education	Introductory Seminar for First Year Students	2	Semester												30	1	40	1	30	1							100	
Liberal Arts Education	Peace Science Courses	2	Semester	100	1																							100
Liberal Arts Education	Communication I A	1	Semester															100	1									100
Liberal Arts Education	Communication I B	1	Semester															100	1									100
Liberal Arts Education	Communication I I A	1	Semester															100	1									100
Liberal Arts Education	Communication I I B	1	Semester															100	1									100
Liberal Arts Education	Basic language I	1	Semester															100	1									100
Liberal Arts Education	Basic language II	1	Semester															100	1									100
Liberal Arts Education	Information Courses	2	Semester						100	1																		100
Liberal Arts Education	Area Courses	2	Semester	10	1	70	1	20	1																			100
Liberal Arts Education	Health and Sports Courses	2	Semester			100	1																					100
Liberal Arts Education	Calculus I	2	Semester						100	1																		100
Liberal Arts Education	Calculus II	2	Semester						100	1																		100
Liberal Arts Education	Linear Algebra I	2	Semester						100	1																		100
Liberal Arts Education	Linear Algebra II	2	Semester						100	1																		100
Liberal Arts Education	Seminar in Basic Mathematics I	1	Semester						100	1																		100
Liberal Arts Education	Seminar in Basic Mathematics II	1	Semester						100	1																		100
Liberal Arts Education	General Mechanics I	2	Semester						100	1																		100
Liberal Arts Education	General Mechanics II	2	Semester						100	1																		100
Liberal Arts Education	Specialized Education (Physics and Mathematics) Basic Physics I	1	Semester						100	1																		100
Specialized Education	Applied Mathematics I	2	Semester						100	1																		100
Specialized Education	Applied Mathematics II	2	Semester						100	1																		100
Specialized Education	Applied Mathematics III	2	Semester						100	1																		100
Specialized Education	Engineering Mathematics A	2	Semester						100	1																		100
Specialized Education	Probability and Statistics	2	Semester						100	1																		100
Specialized Education	Environmental Theory	2	Semester			30	1				70	1																100
Specialized Education	Basic Engineering/Computer Programming	2	Semester						100	1																		100
Specialized Education	Synthesis of Applied Mathematics	2	Semester						100	1																		100
Specialized Education	Technical English	1	Semester														100	1										100
Specialized Education	Creation of Architectural Space	2	Semester						100	1																		100
Specialized Education	Lifestyle and the city	2	Semester						100	1																		100
Specialized Education	Building Material	2	Semester										100	1														100
Specialized Education	Experiments on Building Materials	1	Semester										60	1					10	1	30	1						100
Specialized Education	Introduction of Building Structures	2	Semester										100	1														100
Specialized Education	Architectural Project and Drawing I	2	Semester	20	1					60	1									10	1	10	1					100
Specialized Education	Architectural Project and Drawing II	2	Semester			20	1			60	1									10	1	10	1					100
Specialized Education	Architectural Structural Mechanics I	4	Semester						20	1					80	1												100
Specialized Education	Architectural Structural Mechanics II	4	Semester						20	1					80	1												100
Specialized Education	Vibration Theory of Buildings	2	Semester						20	1					80	1												100
Specialized Education	Reinforced concrete structure	2	Semester												100	1												100
Specialized Education	Structural steel structure	2	Semester						20	1					80	1												100
Specialized Education	Building Administration	2	Semester				40	1		60	1																	100
Specialized Education	Field Exercises of Building	1	Semester					10	1						60	1			10	1	10	1	10	1				100
Specialized Education	History of Japanese Architecture	2	Semester			40	1				60	1																100
Specialized Education	Architectural Planning I	2	Semester			10	1				70	1					10	1			10	1						100
Specialized Education	Town Planning	2	Semester			20	1				70	1					10	1										100
Specialized Education	Architectural Environments I	2	Semester									100	1															100
Specialized Education	Architectural Environments II	2	Semester									100	1															100
Specialized Education	Exercises in Environmental Science	1	Semester									70	1							10	1	20	1					100
Specialized Education	History of contemporary architecture I	2	Semester			20	1				80	1																100
Specialized Education	Field Work in Architecture	1	Semester												70	1			10	1	10	1	10	1				100
Specialized Education	Computer Technology in Architecture	2	Semester					100	1																			100
Specialized Education	Design Concepts of Steel Structures	2	Semester												80	1					10	1	10	1				100
Specialized Education	Architecture drawings	2	Semester							60	1						40	1										100
Specialized Education	Methods of Structural Analysis	2	Semester													100	1											100
Specialized Education	Earthquake Resistant Structures	2	Semester													100	1											100
Specialized Education	Structural Design	2	Semester												60	1	10	1	10	1	10	1	10	1				100
Specialized Education	Building Construction	2	Semester				20	1							80	1												100
Specialized Education	Disaster Prevention of Buildings	2	Semester													100	1											100
Specialized Education	Seminar in Architecture I	2	Semester												60	1			20	1	20	1						100
Specialized Education	Design of Steel Structures	2	Semester													100	1											100
Specialized Education	History of contemporary architecture II	2	Semester	20	1	20	1							60	1													100
Specialized Education	Architectural Planning II	2	Semester			10	1							70	1	10	1			10	1							100
Specialized Education	Building Services I	2	Semester												100	1												100
Specialized Education	Building Services II	2	Semester												100	1												100
Specialized Education	Architectural Project and Drawing III	3	Semester	10	1	10	1							40	1	10	1	10	1	10	1	10	1	10	1			100
Specialized Education	Architectural Project and Drawing IV	3	Semester	10	1	10	1							40	1	10	1	10	1	10	1	10	1	10	1			100
Specialized Education	Architectural Project and Drawing V	2	Semester											40	1	20	1	10	1	10	1	20	1				100	
Specialized Education	Artistic Practice	2	Semester											60	1	30	1	10	1									100
Specialized Education	Seminar in Architecture II	2	Semester											60	1			20	1	20	1							100
Specialized Education	Seminar in Architecture III	1	Semester											50	1	10	1	10	1	10	1	20	1					100
Specialized Education	Urban Environment	2	Semester												100	1												100
Specialized Education	Peace Utilization and Architecture	2	Semester	30	1	10	1							60	1													100
Specialized Education	Sustainable Design	1	Semester												100	1												100
Specialized Education	Vegetation Ecology	1	Semester												100	1												100
Specialized Education	Project Management in Building	2	Semester											80	1	10	1						10	1				100
Specialized Education	Ethics of Architecture	2	Semester				90	1						10	1													100
Specialized Education	Graduation Thesis	5	Semester						10	1				40	1	10	1	20	1	10	1	10	1					100

Sheet 4 Curriculum Map

Academic Achievement	Evaluation Items	Class subjects							
		1st grade		2nd grade		3rd grade		4th grade	
		Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall

Abilities and Skills (E)	Understanding on cultivation of expert knowledge and ability for architecture and building engineering		Creation of Architectural Space	Basic Specialized Subjects	Basic Specialized Subjects Specialized Subjects	Basic Specialized Subjects Specialized Subjects	Specialized Subjects	Graduation Thesis (◎) Specialized Subjects	Graduation Thesis (◎)
Comprehensive Abilities (F)	Understanding on cultivation of design capacity.	Introductory Seminar for First-Year Students (◎)		Architectural Planning I Architecture drawings	Architectural Planning II Town Planning	Architectural Project and Drawing III (◎)	Architectural Project and Drawing IV (◎) Project Management in Building	Graduation Thesis (◎) Architectural Project and Drawing V Structural Design (◎) Artistic Practice Seminar in Architecture III	Graduation Thesis (◎)
Comprehensive Abilities (G)	Understanding on cultivation of communication ability	Foreign Languages Introductory Seminar for First-Year Students (◎)			Technical English (◎)	Architectural Project and Drawing III (◎) Seminar in Architecture II	Architectural Project and Drawing IV (◎) Field Work in Architecture Seminar in Architecture II	Graduation Thesis (◎) Architectural Project and Drawing V Structural Design (◎) Artistic Practice Seminar in Architecture III	Graduation Thesis (◎)
Comprehensive Abilities (H)	Understanding on education for self-development and self-improvement	◎ Introductory Seminar for First-Year Students		Architectural Project and Drawing I (◎) Architectural Planning I	Architectural Project and Drawing II (◎) Architectural Planning II Design Concepts of Steel Structures	Architectural Project and Drawing III (◎) Seminar in Architecture I Exercises in Environmental Science	Architectural Project and Drawing IV (◎) Seminar in Architecture II Field Exercises of Building Field Work in Architecture	Graduation Thesis (◎) Architectural Project and Drawing V Structural Design (◎) Seminar in Architecture III	Graduation Thesis (◎)

Comprehensive Abilities (I)	(I) Understanding on cultivation of ability for planning and exercising				Architectural Project and Drawing I (◎)	Architectural Project and Drawing II (◎) Design Concepts of Steel Structures	Architectural Project and Drawing III (◎) Exercises in Environmental Science	Architectural Project and Drawing IV (○) Field Exercises of Building Field Work in Architecture Project Management in Building	Graduation Thesis (◎) Architectural Project and Drawing V Structural Design (○) Seminar in Architecture III	Graduation Thesis (◎)

◎: Required subject (period of registration specified), ○: Compulsory elective subject (any of these subjects shall be registered)