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Appended Form 1

Specifications for Major Program

Name of School (Program) [School of Education,

Cluster 2(Science, Technology and Society Education) Program in Technology and Information Education]

Program name (Japanese)	
(English)	
	Secondary School Technology and Information Education
1. Academic Degree tobe Ad	equired: Bachelor's Degree (Education)

2. Overview

The Secondary School Technology and Information Education Program aims to develop junior high school technology teachers and high school information and technical studies teachers (together referred to as 'secondary school technology and information teachers').

This program aims to foster practical educational abilities. Students are encouraged to take technology and information-related special subjects, including manufacturing technologies (wood-processing, metal-processing, machinery, electricity, and cultivation) and information technologies (hardware, software, information networks, information systems), which are required for delivering technology and information education at secondary schools, and which also provide the basic and fundamental knowledge, abilities, skills, and attitudes in relation to such education. Eventually, graduates of this program will go on to deliver technology and information lessons, attract pupils' attention and interest, and organize a new developmental study based on the pupils' stages of development and learning. This program also pays careful attention to fostering basic and fundamental knowledge, abilities, and skills so that the students can progress to graduate school studies related to technology and information education, and to specialized courses required in order to work as academic researchers or professional personnel in business and public organizations.

3. Diploma Policy (Policy of Awarding Degrees & Goal of the Program)

The Secondary School Technology and Information Education Program develops the following professionals, junior high school technology teachers, high school information and technology teachers, engineers in businesses and public organizations, education specialists in businesses, and researchers going on to the graduate school to study the areas of specialized science related to technology and information education. Therefore, this program awards a bachelor's degree (education) to students who, in addition to obtaining the standard number of credits set forth in the education curriculum, have acquired the following abilities:

- 1 The basic and practical knowledge and skills related to technology and information.
- 2 The basic and practical knowledge and skills related to technology and information education.
- The ability to find and realize problems in technology, information, and related subjects from a global perspective, and to generalize from knowledge and skills in order to think, judge and express them for finding solutions.

The abilities listed in (1) and (2) are evaluated based on the academic evaluation of every subject according the syllabus and the degree of attainment of the goal set by each education program. The abilities listed in (3) are evaluated based on the contents of the manufactured and produced items and the presentation of the graduation thesis, as well as on the student's attitude towards learning.

4. Curriculum Policy (Policy for Curriculum Organization and Implementation)

The Secondary School Technology and Information Education Program systematically organizes and implements a curriculum based on the following policies in order to realize the goal set forth in the

Students decide on the tutor for their graduation thesis in the first semester of the third year, while also selecting a major research area. Their wishes are taken into account in assignment, which is finalized by the group of teachers in charge of program.

System of Responsibility

(1) System of PDCA (Plan, Do, Check, Action)

This program is implemented mainly by the staff members belonging to the Technology and Information Education Program, School of Education. The program head (head of the Technology and Information Education Program) is responsible for its implementation. The group of teachers of this program will make a plan, implement that plan, evaluate it, and take action.

- (2) Evaluation of the Program
- * Evaluation Perspectives for the Program

This program encompasses the evaluation perspectives of educational and social benefits. As for the educational benefits, the degree of attainment by the students will be identified after the implementation of the program, while as for the social benefits, the social effectiveness of taking the program will be evaluated.

* How to implement evaluation (Describing the relationship to class evaluation.)

In principle, the effect of this program itself will be evaluated in the academic year four years after entrance to the university, based on the perspectives above.

Firstly, the educational benefits will be evaluated based on the degree of achievement by the students who have studied in this program (the achievement of the graduation requirements and the acquisition of qualification as secondary school technology and information teachers) and the overall evaluation made by the group of teachers in charge of this program. Along with the degree of achievement of credits by students, the program checks if the degree of achievement is 75% or more by examining the level of achievement of each student, and of the students as a whole, based on the teachers' comprehensive evaluation.

Secondly, the social benefits will be evaluated through questionnaires completed by the schools and the businesses that employed the graduates.

* Position on feedback, and method of feedback to the students

Based on the evaluation results of this program, the group of teachers in charge review and improve the contents of the program and examine the effectiveness of the students' guidance and the various subjects, ensuring their findings are reflected in program management and implementation in the following years.

Table of Registration Standards for the Subjects of Liberal Education

Cluster 2: Program in Technology and Information Education

	Ciusie	1 2. F10g	rannin reciniology and initori	nation Luuc	ation										
	,					•	Type of	Sem	ester	for the	subje	ect to I	be tak	en (No	ote 1)
90	:		Subject type		Class subjects, etc.	Credits	course	1st	year	2nd	year	3rd	year	4th	year
É	-		, ,,		, ,		registration	1	2	3	4	5	6	7	8
	Peac	e Science	e Courses	2		2	Elective/required	0							
	. so	Introduc	tion to University Education	2	Introduction to University Education	2	Required	0							
	Dourses by Educa	Introducto	ry Seminar for First-Year Students	2	Introductory Seminar for First-Year Students	2	Required	0							
	BasicC	Advanced S	Seminar	(0)		1	Free elective	0							
		Area	Courses in Arts and Humanities/Social Sciences	4	(Note4)	1or2	Elective/required	0	0	0	0				
		Courses	Courses in Natural Sciences	4		1or2	Elective/required	0	0	0	0				I
		S	Basic English Usage	(0)	Basic English Usage I	1	Free	0							

Foreign Languages English (Note2) Common Subjects

Subjects of Liberal Education

elective

Registration standards for Schools

Cluster 2: Science, Technology and Society Education Program in Technology and Information Education

	Sub	No. of credits	required for graduation				
	Peace Science Cour	ses		2			
	Basic Courses in Introduction to University Education		2				
I	University Education	Introductory S Students	Seminar for First-Year	2			
uo				4			
Liberal Arts Education			Courses in Natural Sciences	4	38		
rts E		Foreign	English	4			
oeral A	Languages		Non-English Foreign Languages	(0)			
=		Information and Data Science Courses Health and Sports Courses		4			
				2			
		Social Coope	ration Courses	(0)			
	Foundation Courses			(0)			
	Free Elective subject	ts		14			
	Basic Specialized su	bjects		38			
ed on	Specialized subjects			16			
Specialized Education	Specialized Elective	subjects		30	90		
Spe	Free Elective subjec	ts		30			
	Graduation Researc	h		6			
	Total				128		

Registration standards for Specialized Education Subjects Cluster 2: Program in Technology and Information Education

	Class Subject	requi	credits red for uation	School(s)				
	Introduction to Technology Education I	2						
	Introduction tomputer Education I	2						
S	Introduction to Woodworking	2						
Specialized subjects	Introduction to Practical Learn of Material	2						
zed s	Introduction flachine Application	2						
oeciali	Introduction to Electrical and Electronic Applications I	2	38	Program in Technology and Information Education				
Basic Sp	Introduction to information Applications I	2						
Ba	Introduction to information Applications II	2						
	Practicum in Mechatronics	2						
	Basic Specialized Elective subjects	20						
Speci	alized subjects	1	16					
Specialized Elective subjects			30	Cabaal of Education ata				
Free	Elective subjects		5 0	School of Education, etc.				
Gradu	uation Research		6	Program in Technology and Information Education				

Matters to note when taking subjects

- 1. The number of credits in Free Elective Subjects acquired in minor courses and specific programs will be up to 30 credits.
- 2. In order to study the Practical Seminar for the Teaching Profession (Junior and High School) (8th Semester), in principle, students must obtain the credits in Practical Study at the Junior and High School I or II at the end of the 7th semester. If, however, they cannot obtain the credits in Practical Study by the semester in which they take the Practical Seminar for the Teaching Profession, their registration will be accepted on the condition of their obtaining them during the same semester.

Cluster 2: Program in Technology and Information Education

Subjects with a circle in the "No. of credits to obtain" column are required subjects.

The semester marked with ○ is the standard semester for taking the related subject

	Semester in which the subject is taken										
Туре	Class Subject	Credits	_	2	ω	4	5	<i>.</i>	7	∞	Remarks
	Introduction to Technology Education I	2			0						
	Introduction to Computer Education I	2			0						
	Introduction to Woodworking	2		0							
	Introduction to Practical Learn of Material	2		0							
	Introduction to Machine Application	2			0						
	Introduction to Electrical and Electronic Applications I	2			0						
	Introduction to Information Applications I	2	0								
	Introduction to Information Applications II	2	0								
ects	Practicum in Mechatronics	2					0				
[qns p	Basic Practicum in Mechatronics	2				0					
ialize	Introduction to Hardware	2				0					
Basic Specialized subjects	Practice in Teaching Materials for Woodworking I	1			0						
Ba	Material Working I	1			0						
	Seminar on Teaching Materials for Mechatronic Applications	1	0								
	Introduction to Electrical and Electronic Applications II	2				0					
	Seminar on Teaching Materials for Hardware	1		0							
	Introduction to Technology Education II	2				0					
	Introduction to Computer Education II	2					0				
	Introduction to Information Systems	2			0						
	Introduction to Network Systems	2				0					
	Multimedia Applications	2						0			

Introduction to Programming	2		0			
Data Utilization and Data Science for Solving Problems in Educational Scenes	2		0			

Introduction to Information Applications III

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			Semester in which the subject is taken									
Туре	/pe Class Subject Credits		_	2	3	4	5	9	7	8	Remarks	
	Guidance on the Teaching Profession	2			0							
	Principles of Education	2			0							
	Developmental Psychology of Children and Adolescents	2					0					
	Education and Society and Systems	2	•			0						