For entrants in FY 2019

Appended Form 1

Specifications for Major Program

Name of School (Program) [School of Dentistry, Program of Oral Health Sciences]

Program name (Japanese)	
(English)	Program for Oral Engineering

1 Degree to be obtained: Bachelor of Oral Health Sciences

2 Overview

The Program for Oral Health Science provides two courses (Course of Oral Science and Course of Oral Engineering) to educate students to become researchers, educators, or highly advanced medical staff in the area of oral health sciences while liaising with other areas such as medicine, engineering, and nursing in a manner based on scientific evidence. The Course of Oral Engineering aims to enable students to acquire knowledge, skills, and attitudes regarding medicine, dentistry, and engineering, from the basics to the cutting-edge, in order to be able to contribute to the fields of dental medicine and medical care with advanced techniques, knowledge, and rich humanity in line with changes in society and future development in the sciences. The educational program provided in this course educates medical staff in fields of highly advanced oral engineering, researchers in areas of oral health science, dental technicians, and educators.

3 Diploma policy (policy for awarding degrees and goal of the program)

Course of Oral Engineering educates students to be able to integrate knowledge and skills regarding dentistry, medicine, and engineering to work in the positions in oral engineering listed below:

Dental medical staff, with the mindset of researchers, and business people, researchers, and educators with a clinical mindset;

Oral engineers who can work in international fields;

Educators and researchers who can pioneer fields of oral engineering and establish, systematize, and develop them to a highly specialized level; or

Medical staff, educators, and researchers with a deep devotion to humanity, ethics, a deep human spirit, and a decisive sense of responsibility.

Based on the aims above, this program will award the degree of bachelor of oral health sciences to students who have acquired the capabilities described below and earned the required credits for the educational course.

(1) The ability to integrate and exercise knowledge and skills regarding liberal arts subjects,

	credits		credits	registration	
	2		2	ired	2nd grade 2 term
	2		2		1 term
	2		2		1 term
	4		1or2	ired	
	2	General Health and Oral Sciences I	2		2 term
	2	General Health and Oral Sciences II	2		4 term
	2	----------	1		
			1		
n I	2		1		
			1		
n II	2		1		
			1		
	4		1	ired	
			2		1 term
	2		2	ired	
			2		
	2			ired	
	2		2		4 term
	2		2		1 term
			2		1 term
			2		
			1		
			1		4 term
			2	ired	2 term
			2		2 term
			2		
	2		2		1or2 term
	2		2		4 term
		Statistics	2		4 term
			1or2		
	42				

type		of credits	1st grade		2nd grade		3rd grade				Remarks
			1	2	3	4	5	6	7	8	
		2	2								
	Oral Anatomy	2			2						
	Histology and Oral Histology	1			1						
		1			1						
	Practice on Oral AnatomyII	1				1					
		2			2						
	Practice on Stmatognathic System and Function	1			1						
	Overview of Basic Dental Sciences	2	2								
		2		2							
		2			2						
		2			2						
	Pathology and Oral Pathology	2			2						
		1			1						
		2			2						
		1				1					
	Clinical Medicine	2					2				
	Medical ethics	1			1						
		2			2						
		1					1				
	Oral Surgery and Anesthesiology	1					1				
		1				1					
	Periodontology	1				1					
		1					1				
	Dentistry for Persons with Disabilities	2					2				
		2					2				
		1							1		
		1					1				
		2				2					
		1						1			
	Health Science on Sports Dentistry and Temporoma	1					1				
	Dental Material	1			1						
	Biomaterials	1			1						
	Practice on Biomaterial	1			1						
	Practice on Applied Biomaterial	1								1	
	Precision Casting Science	2			2						
	Practice on Precision Casting Science	1				1					
	CAD/CAM System Engineering	1		1							
	Medical System Engineering	1					1				
	Practice of Information System Engineering	1			1						
	Practical Training on Digital Dentistry	1						1			
	Overview of Oral Engineering	2					2				
	Medical Equipment A	1				1					
	Pediatric Dentistry	1					1				
	Practice of Pediatric Dentistry	1						1			
	Orthodontics	2					2				
	Practice of Orthodontics	1						1			

type			of credits	1st grade		2nd grade		3rd grade		4th grade		Remarks
				1	2	3	4	5	6	7	8	
Specialized Education Subjects	Specialized Courses	Practice in Crown Restoration and Health Engineerin	1					1				
		Practice in Crown Restoration and Health Enginee	1								1	
		Removable Denture and Health Engineering	2		2							
		Removable Denture and Health Engineering	2			2						
		Practice of removable denture and health	2				2					
		Practice of removable denture and health	2				2					
		Practice of removable denture and health	1					1				
		Practice of removable denture and health	1					1				
		Practice of removable denture and health	1						1			
		Practice of removable denture and health	1								1	
		Esthetic Dentistry	1				1					
		Practice on Medical Design and Engineering	1								1	
		Practice of Oral Process Engineering	1								1	
		Clinical Practice in Oral Health Engineering	13						1	6	6	
		Medical Design Engineering	1						1			
		Medical Design Engineering	1						1			
		Disaster Dentistry and Forensic Odontology	1						1			
		Dysphagia Rehabilitation	1					1				
		Special Study for Graduation	9						6	2	1	
		Special Course in Rehabilitation Make Up	1					1				
		Research Start-Up	1				1					
		Practice of Biodental English	2					2				
Total			113	4	6	27	17	23	15	9	12	

Necessary credits for graduation : 155 credits

Liberal Arts Education Subjects		Specialized Education Subjects	
Peace Science Courses	2credits	Basic Specialized Courses	24credits
Basic Courses in University Educati	4credits	Specialized Courses	89credits
Common subjects			
Area Courses	8credits		
Foreign Languages			
English	6credits		
Non-English Foreign Languages	4credits		
Information Courses	2credits		
Health and Sports Courses	2credits		
Foundation Courses	14credits		
Liberal Arts Education Subjects	42credits	Specialized Education Subjects	113credits

Academic achievements of Course of Oral Engineering

Relationships between the evaluation items and evaluation criteria

		Excellent	Very Good	Good
(1)	Knowledge and understanding of liberal arts such as humanities and natural science	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
(2)	The knowledge and understanding on foreign languages and culture	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
(3)	Knowledge and understanding on principles of medicine	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
(4)	Knowledge and understanding of basic behavior as a dental professional (a dental technician)	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
(5)	Knowledge and understanding of social dentistry	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
(6)	Knowledge and understanding of life science	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
(7)	Knowledge and understanding of dental materials and biomaterials	Being able to correctly explain all contents of each subject, and develop them deepening the learning.	Being able to correctly explain all contents of each subject.	Being able to explain almost all contents of each subject.
(8)	Knowledge and understanding of diseae prevention, treatment, diagnosis, and medical check-up concerning dentistry and other related studies			

Relationships between the evaluation items and class subjects

| | | | | Weighte dvalues of evaluati on items in the subject | Weighte dvalues of evaluati on items

Relationships between the evaluation items and class subjects

Subject type	Class Subject	No. of credits	Type of course registration	Semesters	Evaluation items																																				Total weighted values of evaluation items in the subject
					Knowledge and Understanding																		Abilities and Skills										Comprehensive Abilities										
					(1)		(2)		(3)		(4)		(5)		(6)		(7)		(8)		(9)		(10)		(1)		(2)		(3)		(4)		(5)		(1)		(2)		(3)		(4)		(5)		
					Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	Weighted values of evaluation items in the subject	Weighted values of evaluation items	
	Overview of Oral Engineering	2	Required	5																	100	1																				100
	Medical Equipment	1	Required	4																			100	1																			100
	Pediatric Dentistry	1	Required	5															100	1																							100
	Practice of Pediatric Dentistry	1	Required	6																									100	1													100
	Orthodontics	2	Required	5																	100	1																					100
	Practice of Orthodontics	1	Required	6																									100	1													100
	Practice of Orthodontics	1	Required	6																									100	1													100
	Crown Restoration and Health Engineering	1	Required	2																	100	1																					100
	Crown Restoration and Health Engineering	2	Required	3																	100	1																					100
	Crown Restoration and Health Engineering	1	Required	4																	100	1																					100
	Practice in Crown Restoration and HeaMCID 49 350 -09 1178361 8 96886 Tm[) 102(-) 106(-) 115(10BDC 110164 -0 0 110164 9 63605059 1013/P <MCID 49 44 5(-) 95(-) 38(-) 51(-) 132(06(-) o04) 67(-) 53(-) 42(r) 26(-) 35-0 0 82656 245 1147 9 18033 Tm(T)EM8 /P <MCID 487 BDC /TT1 1 T5Tw 12 -0 0 0002 Tw 100328 -0 0 100328 266557) 3.58T/P <MCID 508 BDC BT0 Tc 0 Tw(-) 76(ed)TEMC /P <MCID 49 BDC 0 Tc 0 Tw 100328883550 82 Tm8 3247868 9 10164 Tm(T)EMC /P <MCID 49 BDC 110165200																																									

Curriculum Map of Course of Oral Engineering

	Evaluation items	1st grade		2nd grade		3rd grade		4th grade	
		Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester
Knowledge and Understanding	Knowledge and understanding of liberal arts such as humanities and natural science	Basic Courses in University							
	The knowledge and understanding on foreign languages and culture					Practice of Biodental English			
	Knowledge and understanding on principles of medicine								
	Knowledge and understanding of basic behavior as a dental professional (a dental technician)	Overview of Basic Dental						Laws and Regulations for Dental	
	Knowledge and understanding of social dentistry						Disaster Dentistry and Forensic		
	Knowledge and understanding of life science		Physiology and Oral Physiology	Microbiology and Oral Histology and Oral Histology					
	Knowledge and understanding of dental materials and biomaterials								
	Knowledge and understanding of diseae prevention, treatment, diagnosis, and medical check-up concerning dentistry and other related studies			Pharmacology and Dental Pathology and Oral Pathology		Dentistry for Persons with Lifestyle-related Dentistry Oral Surgery and Anesthesiology Oral Surgery and Anesthesiology			
	Understanding and knowledge of dental technician (dental techonology)		Crown Restoration and Health Removable Denture and Health	Stmatognathic System and Crown Restoration and Health Removable Denture and Health	Crown Restoration and Health	Overview of Oral Engineering			
	The knowledge and understanding on related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management)								
	Communication skills as a dental professional (a dental technician)					Practice of Biodental English	Curriculum design of dental hygienists and dental		
	Abilities and skills concerning life science, materials technology, and social dentistry				Practice on Precision Casting				

Curriculum Map of Course of Oral Engineering

Evaluation items	1st grade		2nd grade		3rd grade		4th grade	
	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester	Spring semester	Fall semester
					Practice in Crown Restoration	Practice of Pediatric Dentistry	Clinical Practice in Oral Health	Practice on Applied Biomaterial
			Practice on Stmatognathic	Practice in Crown Restoration	Practice in Crown Restoration	Practice of removable denture		Clinical Practice in Oral Health
			Practice in Crown Restoration	Practice in Crown Restoration	Practice in Crown Restoration	Clinical Practice in Oral Health		Practice in Crown Restoration and
				Practice of removable denture	Practice in Crown Restoration			Practice of removable denture and
				Practice of removable denture	Practice in Crown Restoration			
					Practice in Crown Restoration			
					Health Science on Sports Dentistry and			
			Practice of Information System			Practical Training on Digital		
						Special Study for Graduation		
						Clinical Practice in Oral Health	Clinical Practice in Oral Health	Clinical Practice in Oral Health
								Practice on Medical Design and Practice of Oral Process
						Clinical Practice in Oral Health	Clinical Practice in Oral Health	Clinical Practice in Oral Health
								Practice on Medical Design and Practice of Oral Process
						Special Study for Graduation		
						Special Study for Graduation		
Liberal Arts	Basic Sp79209EMC70							

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