For entrants in FY 2024

Appended Form 1

Specifications for Major Program

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

Program name	(Japanese)	
	(English)	Bachelor's Program in Oral Engineering

1 Degree to be obtained: Bachelor of Oral Health Science

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 following positions in oral engineering:

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, dental technology, basic dental medicine, clinical dental medicine, adjacent medicine, and related areas

of engineering;

achievement level against the target defined for each educational program.

5 Start time and acceptance conditions

In the first year (when the student enters the university)

In the Program for Oral Health Science, the entrance examination is held for each course. This course is organized only for students who enter the Course of Oral Engineering in the Program for Oral Health Science in the School of Dentistry.

6 Obtainable qualifications

Qualification for the national examination for dental technicians (awarded when the student graduates.)

Students who have earned the credit specified separately are eligible to be awarded the degree in cell culture engineering certified by the Japanese Tissue Culture Association; and to obtain the Basic Grade 2 Certificate for Rehabilitation Make-up from Reiko Kazki Co., Ltd.

7 Class subjects and their contents

- * For the class subjects, refer to the subject table in Attached Sheet 1.
- * For the details of the class subjects, refer to the syllabus that is published for each academic year.

8 Academic achievement

The evaluation criteria are specified for each evaluation item for academic achievement, and the achievement level against the criteria is designated at the end of each semester.

The evaluation score for each evaluation item is converted to a numerical value (S = 4, A = 3, B = 2, and C = 1) and the evaluation standard for academic achievement, from when the student entered the university to the end of the last semester, is determined using these values while applying weightings. The evaluation standards consist of three levels, i.e. Excellent, Very Good, and Good.

Achievement evaluation	Numerical conversion
S (Excellent: 90 or more points)	4
A (Very good: 80 - 89 points)	3
B (Good: 70 - 79 points)	2
C (Passed: 60 - 69 points)	1

Academic	Evaluation
achievement	standard
Excellent	3.00 - 4.00
Very Good	2.00 - 2.99
Good	1.00 - 1.99

^{*} Refer to the relationship between evaluation items and evaluation criteria described in

- 4. Abilities, skills, and attitude required for practically applying techniques in the specialized fields of dental technicians (dental technology) as a member of a dental medical team
- 5. Abilities and skills required for applying related engineering (information processing, CAD/CAM, ME (medical engineering), system engineering, management science, and bio-technology)

Comprehensive capability

- 1. Comprehensive capability and attitude for autonomously and positively studying for the whole of one's life as a member of dental medical staff (dental technician)
- 2. Comprehensive capability and attitude related to medical testing, diagnosis, treatment, and prevention of disease in the regions of the mouth, jaw, and face
- 3. Comprehensive capability and attitude required for practically applying techniques in the specialized fields of dental technicians (dental technology)
- 4. Comprehensive capability for gathering, selecting, logically organizing, and presenting information
- 5. Comprehensive capability required for problem identification, research planning and promotion, results analysis, and presentation of results in a field related to oral engineering
- 9. Graduation thesis (graduation research) (meaning, student allocation, timing, etc.) Students are required to prepare their graduation theses.

Purpose

To enable students to establish a foundation of knowledge and techniques required for research, in order to allow them to make a smooth start in their research at a higher level when they enter the graduate school.

Overview

Students are allocated to one of the departments, i.e. Anatomy and Functional Restorations, Medical System Engineering, and Oral Biology and Engineering. The contents of research vary depending on the department. The details of each department are introduced in the guidance of "Special Study for Graduation." Students join cutting-edge research activities in which the faculty is engaged, or identify a problem regarding oral health sciences by themselves and conduct the research to solve it. They are expected to acquire information gathering skills, problem solving abilities, research capabilities, and logical thinking skills through this process.

Student allocation timing and method

Students are allocated to the department in the second semester of the third year. Although the allocation method is separately defined, a great deal of importance is attached to the wishes of the student.

10. Responsibility

The dental department headquarters council and the faculty council of the School of Dentistry are engaged in the planning and execution of this course. For the processes of evaluation and action for improvement, the dean of the School of Dentistry consults with the dental department headquarters council and the faculty council of the School of Dentistry, and carries out the required actions while taking the results of consultations into consideration.

Table of Registration Standards for Liberal Arts Education Subjects, School of Dentistry

<Bachelor's Program in Oral Engineering>

T				ingineering>	Required		No. of	Type of	Year	in which the sub	oject is taken (N	ote 1)
y p			Subject t	ype	No. of	Class subjects, etc.	No. of credits	course		grade	2nd	
e					credits			registration Elective/	1st semester	2nd semester	3rd semester	4th semester
		Pe	ace Science	Courses	2		2	required				
	ses in lucation	Intr	oduction to	University Education	2	Introduction to University Education	2	Required				
	Basic Courses in University Education		Liberal A	Arts Education	2	Introductory Seminar for First-Year Students	2	Required				
	Bas		Advan	ced Seminar	0	Advanced Seminar	1	Freeelective				
					2	General Health and Oral Sciences I	2	Required				
			Are	a Courses	2	General Health and Oral Sciences II	2	Required				
					4	From Courses in Arts and Humanities / Social Sciences (Note 2)	1 or 2	Elective/ required				
				Communication	2	Communication Basic I	1					
				Basic	_	Communication Basic II	1					
		s	English	Communication I	2	Communication I	1	Required (Note 3)				
		bject	English	Communication 1	2	Communication I	1	(Note 4)				
		ge Su		Communication II	2	Communication II	1					
		ngna		Communication ii	2	Communication II	1					
	jects	Foreign Language Subjects				Basic Foreign Language Subjects I	1					
	qns uo	Fore	(You have	Program Languages to select one language	4	Basic Foreign Language Subjects II	1	Elective/ required				
ects	Common subjects		from G	erman, French and Chinese.)	4	Basic Foreign Language Subjects III	1	(Note 5)				
n Subj				Basic Foreign Language Subjects IV	1							
lucatio		Information and Data Sciences		and Data Sciences	2	Introduction to Information and Data Sciences	2	Required (Note 6)				
rts Ec			S	ubjects	2	From courses in Information and Data Sciences Subjects	2	Elective/ required				
Liberal Arts Education Subjects						Health and Sports Sciences	2	required				
Ξ			IIleb	Sanda Sakinda	2	Practicum in Sports A	1	Elective/				
			Health and	Sports Subjects	2	Practicum in Sports B	1	required				
						Sports Theory and Exercise	1					
			Social Coo	peration Courses	0		1 or 2	Free elective				
					2	Psychology for Medical Care Workers	2	Required (Note 7)				
					2	Development of International Collaboration in Medical Science	2	Required				
						Foundation biology for life science (Note 8)	2					
						Cell Science	2	. Elective/				
					4	General Chemistry	2	required				
			Basic Sub	jects		Foundation physics for life science (Note 9)	2	(Note 10)				
						Fundamental Physics I	2		_	_		
						Basic Calculus	2				_	
					2	Foundation Mathematics for Health Science (Note 11)	2	Elective/				
					2	Basic Linear Algebra	2	required				
						Statistics	2	1	A 400 A00 A00 A00 A00 A00 A00 A00 A00 A0	- 100 AND		
			Total		40		•		-	-		-
<u> </u>					<u> </u>							

- Semesters marked with are the standard semesters for taking related subjects. If you failed to obtain the credit(s) in said semester, you may take the subject again in later semesters. Since the semester in which the subject is actually provided may be changed, you should confirm the accurate semesters by the relevant documents such as annual class tables for Liberal Arts Education. Note 1
- If you acquire excessive credits from Elective/required subjects of Information and Data Sciences Subjects, within 4 credits of them will be considered as credits of Courses in Arts and Humanities / Social Sciences in Note 2 Area Courses.
- If you have obtained more than the required credits by taking the classes of Area Courses and Social Cooperation subjects which the Language of Instructions are [E: English] on Syllabus, you can substitute for English credits (6 credits) necessary for graduation. For details, see the items related to Liberal Arts Education in the Hand book for Students. Note 3
- You can substitute the credits which you have obtained by taking the "Online English Seminar I, II & III" based on self-learning for English credits (6 credits) necessary for graduation. Also, there is a Credit Transfer System based on foreign language proficiency tests and language training. For details, see the items related to English in Liberal Arts Education and "Handling of Credit Accreditation Based on Foreign Language Proficiency Tests, etc." in the Hand book for Students. Note 4
- There is a Credit Transfer System based on foreign language proficiency tests For details, see the items related to English in Liberal Arts Education in the Hand book for Students. Note 5
- Note 6 When failing to earn the credit for "Introduction to Information and Data Sciences" is it allowed to take the subject from courses in Information and Data Sciences Subjects
- Note 7 Only when failing to earn the credit for "Psychology for Medical Care Workers" is the credit for the subject "Psychology A" or "Psychology B" accepted as that for the information subjects required for graduation (2
- Students who did not take the subject "Biology" in the Common Test for University Admissions are required to take the subject "Foundation biology for life science." Students who did not take the subject "Physics" in the Common Test for University Admissions are required to take the subject "Foundation physics for life science." Note 8
- Note 9
- Note 10 It is required to choose two groups from the subject groups of biology, chemistry, and physics and to earn credit for one subject for each chosen group. Note 11 Those who can choose "Foundation Mathematics for Health Science" must not have taken Mathematics III in high school etc.

Sheet 1-2

Table of Registration Standards for Specialized Education Subjects, School of Dentistry

<Bachelor's Program in Oral Engineering>

ject		Minimum No. of			r —	nich th	· ·		1	4
pe pe	Class Subject	credits	1st	grade	2nd	grade	3rd g	grade	4th grade	Note
r		required	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester 8th semest	4
	Introductory course for oral engineering	1	1							
	Anatomy and Oral Anatomy	2	2							
	Tooth Morphology	1			1					
	Basic Class of Oral Science	1			1					
	Oral Histology	2			2					
	Practice on Oral Anatomy I	1			1					
ses	Practice on Oral Anatomy II	1				1				
onu	Stmatognathic System and Function	2			2	-				
O p	Practice on Stmatognathic System and Function	1			1					
lize	Physiology and Oral Physiology	2		2	-					
Basic Specialized Courses	Pharmacology and Dental Pharmacology	2			2					
Sp	Microbiology and Oral Microbiology	2			2					
asic	Pathology and Oral Pathology	2			2					
В	Immunology Immunology	1			1					
	Dental Health	2			2					
	Social Dentistry	1				1				
	Clinical Medicine	2	1			1		2		
	Medical Ethics	1			1			2		
	Basic Biochemistry (included Food Science)	2			2					
	Oral Surgery and Anesthesiology I	1					1			
	Oral Surgery and Anesthesiology II	1					1			
	Endodontology	1				1	1			
	Periodontology	1				1				
	Team Care for Oral Health	1				1	1			
	Dentistry for Persons with Disabilities	2					2			
	Lifestyle-related Dentistry and Geriatric Dentistry	2					2			
	Laws and Regulations for Dental Technicians (included Social Security System)	1						1		
	Quality and Safety Management in Dentistry	1					1	1		
	Medical Informatics	2				2	1			
	Health Science on Sports Dentistry and Temporomandibular	1					1			
	Dental Material	1			1		-			
	Biomaterials	1			1					
	Practice on Biomaterial	1			1					
	Practice on Applied Biomaterial	1			-				1	
S	Precision Casting Science	2			2					
ırses	Practice on Precision Casting Science	1				1				
δ	CAD/CAM System Engineering	1		1		-				
zed	Medical System Engineering Medical System Engineering	1		1			1			
iali	Practical Training on Digital Dentistry	1	1				_	1		
Specialized Cour	Overview of Oral Engineering I	1	1				1	-		
0,	Overview of Oral Engineering II	1					1			
	Medical Equipment	1				1	1			
	Pediatric Dentistry	1				1	1			
	Practice of Pediatric Dentistry	1					1	1		
	Orthodontics	2					2	1		
	Practice of Orthodontics I	1						1		
	Practice of Orthodontics I Practice of Orthodontics II	1						1		
	Crown Restoration and Health Engineering I	1		1				1		
		2		1	2					
	Crown Restoration and Health Engineering II					1				
	Crown Restoration and Health Engineering III	1			1	1				
	Practice in Crown Restoration and Health Engineering (Inlay)	1			1	1				
	Practice in Crown Restoration and Health Engineering (Crown I)	1				1				
	Practice in Crown Restoration and Health Engineering (Crown II)	1				1	1			
i	Practice in Crown Restoration and Health Engineering (Bridge I) Practice in Crown Restoration and Health Engineering (Bridge II)	1					1			

<Bachelor's Program in Oral Engineering>

	r's Program in Orai Engineering>	Minimum		Yea	r in wh	ich th	e subje	ect is ta	aken		
Subject type	Class Subject	No. of credits	1st	grade	2nd g	grade	3rd g	grade	4th g	rade	Note
type		required	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester	
	Practice in Crown Restoration and Health Engineering (Facing Crown and Implant Superstructure II)	1					1				
	Practice in Crown Restoration and Health Engineering	1								1	
	Removable Denture and Health Engineering (Complete Denture)	2		2							
	Removable Denture and Health Engineering (Partial Denture)	2			2						
	Practice of Removable Denture and Health (Complete Denture)	2				2					
	Practice of Removable Denture and Health (Partial Denture)	2				2					
	Practice of Removable Denture and Health (Anaplastology I)	1					1				
	Practice of Removable Denture and Health (Anaplastology II)	1					1				
	Practice of Removable Denture and Health (Implant Superstructure)	1						1			
cts	Practice of Removable Denture and Health	1								1	
Specialized Education Subjects Specialized Courses	Esthetic Dentistry	1				1					
alized Education Sut Specialized Courses	Practice on Medical Design and Engineering	1								1	
atio Co	Practice of Oral Process Engineering	1								1	
duc	Clinical Practice in Oral Health Engineering	13						1	6	6	
d E	Medical Design Engineering I	1						1			
ulize	Medical Design Engineering II	1						1			
S	Disaster Dentistry and Forensic Odontology	1						1			
δ _p	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					
	Seminar of International Dentistry A	1									Offered in odd- numbered semesters.Can b taken repeatedly
	Seminar of International Dentistry B	1									Offered in even numbered semesters.Can be taken repeatedly
	Total	111	3	6 9	27 4	17 4	22 3	16 8	8 2	12 0	

indicates required subjects

Necessary credits for graduation: 151 credits

Liberal Arts Education Subjects		Specialized Education Subjects	
Peace Science Courses	2 credits	Basic Specialized Courses	24 credits
Basic Courses in University Education	4 credits	Specialized Courses	87 credits
Common subjects			
Area Courses	8 credits		
Foreign Languages			
English	6 credits		
Non-English Foreign Languages	4 credits		
Information and Data sciences Subjects	4 credits		
Health and Sports Courses	2 credits		
Foundation Courses	10 credits		
Liberal Arts Education Subjects	40 credits	Specialized Education Subjects	111 credits

Academic achievements of Bachelor's Program in Oral Engineering

Relationships between the evaluation items and evaluation criteria

		Academic achievements		Evaluation criteria	
		Evaluation items	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.	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.
ling	(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.
erstand	(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.
d Unde	(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.
dge an	(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.	each subject.	Being able to explain almost all contents of each subject.
Knowledge and Understanding	(8)	Knowledge and understanding of diseae prevention treatment, diagnosis, and medical check-up concerning dentistry and other related studies	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.
	(9)	Understanding and knowledge of dental technician (dental technology)	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.
	(10)	The knowledge and understanding on related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management)	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.
	(1)	Communication skills as a dental professional (a dental technician)	To attend hands-on training and other exercises with basic knowledge which is learned ahead of time. Also participate proactively in these activities, intending to further develop studies. In addition, with regard to reports, to be able to consider phenomenon objectively and to have the ability to objectively assess future tasks.	To attend hands-on training with good attitudes. Also, to further develop what students learn in the training based on principles. In addition, to be able to consider phenomena subjectively in reports.	To be able to develop what students learn i hands-on training. Also, to attend these activities with good attitudes. Also, to be able to describe phenomena subjectively.
	(2)	Abilities and skills concerning life science, materials technology, and social dentistry	To attend hands-on training and other exercises with basic knowledge which is learned ahead of time. Also participate proactively in these activities, intending to further develop studies. In addition, with regard to reports, to be able to consider phenomenon objectively and to have the ability to objectively assess future tasks.	To attend hands-on training with good attitudes. Also, to further develop what students learn in the training based on principles. In addition, to be able to consider phenomena subjectively in reports.	To be able to develop what students learn i hands-on training. Also, to attend these activities with good attitudes. Also, to be able to describe phenomena subjectively.
Abilities and Skills	(3)	The ability skills and attitude related to prevention examination diagnosis treatment of diseases in oral maxillofacial region	To attend hands-on training and other exercises with basic knowledge which is learned ahead of time. Also participate proactively in these activities, intending to further develop studies. In addition, with regard to reports, to be able to consider phenomenon objectively and to have the ability to objectively assess future tasks.	To attend hands-on training with good attitudes. Also, to further develop what students learn in the training based on principles. In addition, to be able to consider phenomena subjectively in reports.	To be able to develop what students learn i hands-on training. Also, to attend these activities with good attitudes. Also, to be able to describe phenomena subjectively.
	(4)	The capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team			To be able to develop what students learn i hands-on training. Also, to attend these activities with good attitudes. Also, to be able to describe phenomena subjectively.
	(5)	The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, biotechnology)	To attend hands-on training and other exercises with basic knowledge which is learned ahead of time. Also participate proactively in these activities, intending to further develop studies. In addition, with regard to reports, to be able to consider phenomenon objectively and to have the ability to objectively assess future tasks.	To attend hands-on training with good attitudes. Also, to further develop what students learn in the training based on principles. In addition, to be able to consider phenomena subjectively in reports.	To be able to develop what students learn i hands-on training. Also, to attend these activities with good attitudes. Also, to be able to describe phenomena subjectively.
_	(1)	Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life	As a dental technician, to be able to learn independently, proactively, and continuously.	As a dental technician, to be able to learn independently and proactively.	As a dental technician, to be able to learn independently.
bilities	(2)	The general ability and attitude in related to	Being able to generalize knowledge in related to investigation, diagnosis, treatment and prevention in oral maxillofacial region and make an appropriate action and judgement.	Being able to generalize knowledge in related to investigation, diagnosis, treatment and prevention in oral maxillofacial region and make an appropriate action and judgement.	Being able to generalize knowledge in related to investigation, diagnosis, treatmer and prevention in oral maxillofacial region
Comprehensive Abilities	(3)	The comprehensive capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team	Being able to conduct dental techniques thinking of necessary needs and encouraging appropriately based on understanding each professional roles.	Being able to conduct dental techniques encouraging appropriately based on understanding each professional roles.	Being able to conduct dental techniques acknowledging being a member of a team
Compre	(4)		problems, consider solutions and present them.	analyzing information, to be able to output it with speculation.	To be able to output information which are collected and summarized.
	(5)	The general ability necessary to discover the issues on oral engineering and conduct research planning promotion result analysis result presentation	Being able to discover oral engineering issues and plan promote the research, as well as analyze and present the results.	Being able to discover oral engineering issues and plan promote the research, as well as present the results.	Being able to plan present the research on oral engineering issues.

Placement of the Liberal Arts Education in the Major Program

Students are expected to form the academic foundation required for specialized education, study wide range of subjects regarding human and social sciences and foreign languages, acquire knowledge, and foster an intellectual curiosity and the ability to take action. In addition, they are expected to acquire communication skills, a cooperative mindset, and information gathering abilities in order to establish the basis for personal development as a medical staff.

				Weight		Weighte		Weighte		Weighte	V	Weighte	W	eighte	W	/eighte	We	ighte	Weigh	nte	Weighte	,	Weighte	V	Weighte	Weig	ghte	Weigh	ite	Weighte	Weig	ghte	Weighte	We	eighte	Weighte	·	eighte	
				of	dvalues	of	dvalues	of	Weighte dvalues	dvalues of	Weighte d dvalues o	lvalues V	Weighte dy dvalues of	values W	eighte dv	values V	Veighte dva values of	lues Weig dvalu	ghte dvalue ues of	es Weighte dvalues	dvalues of	Weighte dvalues	dvalues V of d	Weighte d Ivalues o	dvalues We	eighte dvalu	ues Weig dvalu	the dvalue ties of	s Weighte dvalues	dvalues W of dv	eighte dvalu	weighte dvalues	dvalues W	Veighte dva values of	alues Weig	ghte dvalues ues of	Weighte d	values We	alues
				evaluati	io of	evaluati	io of	evaluatio	o of	evaluatio	of e	valuatio o	of ev	aluatio of	ev	valuatio o	f eva	luatio of	evalua	tio of	evaluatio	of	evaluatio o	of e	evaluatio of	evalı	uatio of	evalua	tio of	evaluatio of	f evalu	natio of	evaluatio of o n items ev	f eva	aluatio of	evaluati	o of e	aluatio of	
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Peace Science Courses	2	Required	3		1	,000		,		9234	3	,	30	J	Su	,	340	,	Sabjet		ojeet			s	.,	Suoje		Sabject			Suoje		jeet	Sut	,	Subject	S	Jeet	
Basic Courses in University Education		Required	1		1																																		
Area Courses		Required	1,2		1																																		
Foreign Language Subjects		Required	1,2			100	1																																
Information and Data Sciences Subjects		Required	1,2																		100	1																	
Health and Sports Subjects	2	Red@iteetl	1,2	100	1																																		

Telation	ships between the evalua			Class sac				51108	514111 III	Orar En											Eval	uation	n items																Total
							1 (6		(2)				ge and U			(E)	1 ,	0)	(0		(10)		(4)	1 2			and Skil			(5)		(4)				ive Abiliti			weighte
					Weighte	1)	(2 W.:-ha	2)	(3)		(4)	(5		(6)		(7)		8)	(9		(10)	W/	(1)		2)	(3	_	(4)	**	(5)		(1)	XX :	(2)	(3		(4)	(5)	d values
Subject type	Class Subject	No. of credits	Type of course registration	semesters	dvalues	Weighte	Weighte dvalues	Weighte	Weighte dvalues We	Weighte dvalues alues of	Weighte	Weighte dvalues	Weighte dva	ighte lues Weigh	Weight dvalue	s Weight	Weighte dvalues	Weighte d	values	Weighte dva	ighte lues Wei	ghte dv	eighte values Weighte dvalues	Weighte dvalues	Weighte	Weighte dvalues	Weighte d		ighte dy	eighte alues W	/eighte	Weighte dvalues Weight	Weigh ite dvalue	ues Weighte	Weighte e dvalues	Weighte dvalue	es Weighte	Weighte dvalues Weight	
.51					evaluatio		evaluatio	dvalues of	evaluatio of	evaluati	dvalues of	evaluatio	of eva	luatio of	evaluat	io of	evaluatio	of e	valuatio	of eva	luatio of	ev	aluatio of	evaluatio	of	evaluatio	of e	aluatio of	ex	aluatio of	f	evaluatio of	es of evalua	atio of	evaluatio	dvalues of of evalua	dvalues tio of	evaluatio of	on items
					in the		n items in the	evaluatio n items	n items eva in the n it	aluatio n items tems in the	evaluati n items	io n items in the	evaluatio n it n items in t	ems evalua he n item	ntio n items is in the	evaluat n items	io n items in the	evaluatio n n items ir	items of	evaluatio n it n items in t	ems evaluems n ite	uatio n i ms in	the evaluation the	o n items in the	evaluatio n items	n items in the	evaluatio n n items ir	the n ite	luatio n ems in	items ev the n i	aluatio items	n items evaluat in the n items	io n item s in the	ns evaluati n items	o n items in the	evaluatio n item n items in the	s evaluati n items	o n items evaluat in the n items	in the subject
					subject		subject		subject	subject		subject	sub	ject	subject		subject	SI	ıbject	sub	ject	su	bject	subject		subject	sı	bject	su	bject		subject	subjec	ct	subject	subjec	t	subject	
	Practical Training on Digital Dentistry	1	Required	5,6																										100	1		4		4				100
	Overview of Oral Engineering I	1	Required	5															100	1													4						100
	Overview of Oral Engineering II	1	Required	5															100	1													4		4—				100
	Medical Equipment	1	Required	4]	00	1											4		4!			4—4—	100
	Pediatric Dentistry	1	Required	5													100	1																					100
	Practice of Pediatric Dentistry	1	Required	6																								100	1									1	100
	Orthodontics	2	Required	5															100	1																			100
	Practice of Orthodontics I	1	Required	6																								100	1										100
	Practice of Orthodontics II	1	Required	6																								100	1										100
	Crown Restoration and Health Engineering I	1	Required	2															100	1																			100
	Crown Restoration and Health Engineering	2	Required	3															100	1															4'				100
	Crown Restoration and Health Engineering III	1	Required	4															100	1																			100
	Practice in Crown Restoration and Health Engineering (Inlay)	1	Required	3																								100	1						1 '				100
	Practice in Crown Restoration and Health		Darrie 1	4																								100	1										100
	Engineering (Crown I)	1	Required	4																								100	1										100
	Practice in Crown Restoration and Health Engineering (Crown II)	1	Required	4																								100	1										100
	Practice in Crown Restoration and Health		D : 1																									100					+						100
	Engineering (Bridge I)	1	Required	5																								100	1										100
	Practice in Crown Restoration and Health Engineering (Bridge II)	1	Required	5																								100	1										100
	Practice in Crown Restoration and Health																																_		+				
	Engineering (Facing Crown and Implant Superstructure I)	1	Required	5																								100	1										100
	Practice in Crown Restoration and Health																																+	_	+				_
	Engineering (Facing Crown and Implant Superstructure II)	1	Required	5																								100	1										100
Specialized	Practice in Crown Restoration and Health	1	Danningd	8																								100	1				+	_	_				100
Education	Engineering Removable Denture and Health	1	Required																									100	1				+	_	_				
Subjects	Engineering (Complete Denture)	2	Required	2															100	1																			100
	Removable Denture and Health	2	Required	3															100	1																			100
	Engineering (Partial Denture)		1																														4						4
	Practice of Removable Denture and Health (Complete Denture)	2	Required	4																								100	1										100
	Practice of Removable Denture and Health	2	Required	4																								100	1										100
	(Partial Denture)	_	rtequireu	•																								100	•				_						100
	Practice of Removable Denture and Health (Anaplastology I)	1	Required	5																								100	1										100
	Practice of Removable Denture and Health	1	Required	5																								100	1										100
	(Anaplastology II)		Required																									100	1				4		4				100
	Practice of Removable Denture and Health	1	Required	6																								100	1										100
	(Implant Superstructure)				1																							100					4		4—'				100
	Practice of Removable Denture and Health	1	Required	8	1												1											100	1				4	_	4—'				100
	Esthetic Dentistry Practice on Medical Design and	1	Required	4													100	1																	1	1			100
	Engineering	1	Required	8	1																												50		50	1			100
	Practice of Oral Process Engineering Clinical Practice in Oral Health	1	Required	8																								20					50		50	1			100
	Engineering	13	Required	6-8	1																							30	1			50 :	35	5 1	35	1 50	1	+ +	100
	Medical Design Engineering I Medical Design Engineering II	1	Required	6	1																											50 1 50 1	+		+	50			100
	Disaster Dentistry and Forensic	1	Required Required	6								100	1																			30 1			+	30	1		100
	Odontology Dysphagia Rehabilitation	1	Required	5	1							100	1				100	1															_		+				100
	Special Study for Graduation	9	Required	6-8													100	1														40 1	+		+	30	1	30 1	100
	Special Course in Rehabilitation Make Up	1	Free elective	5																						100	1					70 1	+		+	30	1	30 1	100
	Research Start-Up	1	Required	4	1																					100	1						+		+				100
	Seminar of International Dentistry A	1	Free elective	1,3,5,7,9,11	1		60	1																									+		+	40	1		100
	Seminar of International Dentistry B	1	Free elective				60	1																											+	40			100
L	Domain's B	1		, , , , , , , , , , , , , 2	1		1																	1												10		1	100

Curriculum Map of Program of Oral Engineering

Academic achievements		grade	2nd g		3rd §			th grade
Evaluation items	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester
(Basic Courses in University Education Area Courses	() Area Courses () Health and Sports Subjects	() Peace Science Courses					
nowledge and understanding of liberal arts) Health and Sports Subjects	() Basic Subjects						
ch as humanities and natural science) Basic Subjects							
he knowledge and understanding on foreign	Foreign Language Subjects Seminar of International Dentistry A	Foreign Language Subjects Seminar of International Dentistry B	() Seminar of International Dentistry A	() Seminar of International Dentistry B	Seminar of International Dentistry A	() Seminar of International Dentistry B) Seminar of International Dentistry A	() Seminar of International Dentistry B
inguages and culture) Seminar of international Dentistry A	() Schillar of International Dentistry B						
			() Medical ethics					
nowledge and understanding on principles f medicine								
						The state of Destruction Collins		
nowledge and understanding of basic	Introductory course for oral engineering			(Team Care for Oral Health	() Laws and Regulations for Dental Technicians (included Social Security System)		
ehavior as a dental professional (a dental echnician)								
				() 0 110 11		() B B		
nowledge and understanding of social entistry				() Social Dentistry		() Disaster Dentistry and Forensic Odontology		
. (Anatomy and Oral Anatomy	() Physiology and Oral Physiology	() Basic Class of Oral Science					
			() Tooth Morphology					
			() Histology and Oral Histology					
nowledge and understanding of life science			() Microbiology and Oral Microbiology () Immunology					
			() Basic Biochemistry (included Food Science)					
nowledge and understanding of dental			() Dental Material					
aterials and biomaterials			() Biomaterials () Precision Casting Science					
		1	() Pharmacology and Dental Pharmacology	() Endodontorogy () Oral Surgery and Anesthesiology I	() Clinical Medicine		
			() Pathology and Oral Pathology	() Periodontology (Oral Surgery and Anesthesiology II			
nowledge and understanding of diseae revention, treatment, diagnosis, and medical			() Oral Health	() Esthetic Dentistry (Dentistry for Persons with Disabilities			
neck-up concerning dentistry and other					Lifestyle-related Dentistry / Geriatric Dentistry			
elated studies					Pediatric Dentistry Dysphagia Rehabilitation			
					7.1			
		() Crown Restoration and Health Engineering I	() Stmatognathic System and Function	() Crown Restoration and Health Engineering III (Overview of Oral Engineering I			
nderstanding and knowledge of dental echnician (dental technology)		Removable Denture and Health Engineering (Compl.) Denture)	Crown Restoration and Health Engineering if		Overview of Oral Engineering II			
(- Condition	() Removable Denture and Health Engineering (Partia) Orthodontics			
he knowledge and understanding on related () Information and Data Sciences Subjects	() Information and Data Sciences Subjects		() Medical Informatics (Medical System Engineering			
ngineering (information processing, CAD/CAM, ME(medical engineering),		() CAD/CAM System Engineering		() Medical Equipment				
ystem engineering, management)								
Communication skills as a dental professional								
a dental technician)								
			() Practice on Biomaterial	() Practice on Precision Casting Science				
bilities and skills concerning life science, naterials technology, and social dentistry								
The ability skills and attitude related to revention examination diagnosis				() Research Start-Up	Quality and Safety Management in Dentistry			
reatment of diseases in oral maxillofacial				(Special Course in Rehabilitation Make Up			
egion								
			() Practice on Oral Anatomy I	() Practice on Oral Anatomy II (Health Science on Sports Dentistry and Temporomandibular	Practice of Pediatric Dentistry	Clinical Practice in Oral Health Engineering	() Practice on Applied Biomaterial
			() Practice on Stmatognathic System and Function	Practice in Crown Restoration and Health Engineering	Practice in Crown Restoration and Health Engineering	Practice of Orthodontics I		() Practice in Crown Restoration and Health Eng
***************************************			Practice in Crown Restoration and Health Engineering	(Crown I) Practice in Crown Restoration and Health Engineering	(Bridge I) Practice in Crown Restoration and Health Engineering			
he capacity and attitude necessary for			(Inlay)	(Crown II)	(Bridge II)	() Practice of Orthodontics II		() Practice of Removable Denture and Health
racticing specialized fields of dental echnicians (dental technique) as a dental				Practice of Removable Denture and Health (Complete Denture)	Practice in Crown Restoration and Health Engineering (Facing Crown and Implant Superstructure I)	Practice of Removable Denture and Health (Implant Superstructure)		() Clinical Practice in Oral Health Engineering
eam				Practice of Removable Denture and Health (Partial	Practice in Crown Restoration and Health Engineering	() Clinical Practice in Oral Health Engineering		
-				Denture)	(Facing Crown and Implant Superstructure II) Practice of Removable Denture and Health			
					(Anaplastology I)			
					Practice of Removable Denture and Health (Anaplastology II)			
The ability and skills to apply related				(Practical Training on Digital Dentistry	() Practical Training on Digital Dentistry		
ngineering (information processing, CAD/CAM, ME(medical engineering),								
ystem engineering, management,								
oiotechnology)) Introductory course for oral engineering				+	() Medical Design Engineering I) Special Study for Graduation	() Special Study for Graduation
Comprehensive learning ability and behavior s a dentist, which is to voluntarily learn over	, and the state of					() Medical Design Engineering II		, parameter and the second
course of life						() Special Study for Graduation		
he general ability and attitude in related to						() Clinical Practice in Oral Health Engineering) Clinical Practice in Oral Health Engineering	Practice on Medical Design and Engineering
vestigation, diagnosis, treatment and evention in oral maxillofacial region								() Practice of Oral Process Engineering
						() Clinical Practice is One Health F.	Clinical Practice in Oarl Health	() Clinical Practice in Oral Health Engineering
he comprehensive capacity and attitude						() Clinical Practice in Oral Health Engineering) Clinical Practice in Oral Health Engineering	() Practice on Medical Design and Engineering
ecessary for practicing specialized fields of ental technicians (dental technique) as a								() Practice of Oral Process Engineering
ental team								() Clinical Practice in Oral Health Engineering
() Seminar of International Dentistry A	() Seminar of International Dentistry B	() Seminar of International Dentistry A	() Seminar of International Dentistry B () Seminar of International Dentistry A	() Medical Design Engineering I) Seminar of International Dentistry A	() Seminar of International Dentistry B
omprehensive ability to separate necessary						() Medical Design Engineering II) Special Study for Graduation	() Special Study for Graduation
nd unnecessary information, summarize and atput it						Seminar of International Dentistry B		
						() Special Study for Graduation		
he general ability necessary to discover the						() Special Study for Graduation) Special Study for Graduation	() Special Study for Graduation
ssues on oral engineering and conduct esearch planning promotion result								
alysis result presentation								
larysis result presentation								

Program member list of Bachelor's Program in Oral Engineering

04/01/2024

Mail: Please add "@hiroshima-u.ac.jp"

Name	Position	Laboratory name	Mail
KAKU MASATO	Professor	Anatomy and Functional Restorations	mkaku
SHIMOE SAIJI	Associate Professor	Anatomy and Functional Restorations	shimoe
MURAYAMA TAKESHI	Professor	Medical System Engineering	murayatk
MINE YUICHI	Lecturer	Medical System Engineering	mine
NIKAWA HIROKI	Professor	Oral Biology & Engineering	hirocky
TAJI TSUYOSHI	Associate Professor	Oral Biology & Engineering	taji