# 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)	口腔工学プログラム
	(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;

- (2) The normative awareness and manner, together with the knowledge, skills, and communication abilities required for medical staff, and a capability for establishing good relationships with patients and staff, and contributing to patient-oriented team dental medicine; and
- (3) The ability to take a leading role in research, education, and clinical fields related to oral engineering, based on state-of-the-art knowledge, advanced skills, information gathering skills, problem solving abilities, an inquiring scientific mind, research capabilities, logical thinking skills, and an ability for lifelong study.
- 4. Curriculum policy (policy for arranging and implementing the curriculum)

To enable students to achieve the targets that are defined for Course of Oral Engineering, the educational course is organized and implemented according to the following policies:

- (1) In the first year, students study liberal arts subjects, together with students in other schools, in order to acquire a wide-ranging intelligence and establish the intellectual foundation required for dental medical staff. In addition to this, through PBL (Problem Based Learning) in the liberal arts seminars, students also acquire the basic attitude, skills, and knowledge required for self-disciplined study. Furthermore, they acquire fundamental knowledge regarding specialized areas in order to establish the foundation for enhancing professional knowledge and skills.
- (2) From the second to the fourth year, students study specialized subjects to acquire expertise and specialized skills. The specialized subjects include not only those related to dental technicians but also those regarding basic sciences such as life science, dentistry, adjacent medicine, and engineering such as system engineering and IT.
- (3) In the third and fourth terms of the third year and in the fourth year, students take the subject "Clinical Practice in Oral Health Engineering" that is provided at the university hospital in order to practice the knowledge and skills that they have acquired up to this time. Students are expected, through this practice, to learn skills and knowledge regarding the tasks of an oral engineer, specialized dental medicine, general dental medicine, and team medicine at a university hospital, and to acquire communication abilities, the normative awareness and manner required for medical staff, social skills, a cooperative mindset, and sound judgment.
- (4) In the third and fourth terms of the third year and in the fourth year, students take the subject "Special Study for Graduation" to acquire information gathering skills, problem solving abilities, research capabilities, logical thinking skills, and presentation skills, and to foster an inquiring scientific mind, positiveness, flexibility, creativity, and patience.
- (5) This course provides a bio-dental education program and IPE that aims to educate students to foster their scientific inquiring mind and acquire advanced knowledge and medical techniques that make them capable of cooperating with experts in various professions.

Academic achievement is evaluated based on the grade scores for the subjects and the

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 Attached Sheet 2.
- \* Refer to the relationship between evaluation items and class subjects described in Attached Sheet 3.
- \* Refer to the curriculum map in Attached Sheet 4.

Study achievement in the course (specific knowledge, skills, and attitude that students can obtain)

- Knowledge & understanding
- 1. Knowledge and understanding related to liberal arts such as human and natural sciences
- 2. Knowledge and understanding related to foreign languages and culture
- 3. Knowledge and understanding related to the principles of medicine
- 4. Knowledge and understanding related to the basic attitude required for dental medical staff (dental technicians)
- 5. Knowledge and understanding related to social dentistry
- 6. Knowledge and understanding related to life science
- 7. Knowledge and understanding related to dental materials and biomaterials
- 8. Knowledge and understanding related to the prevention, medical examination, medical testing, diagnosis, and treatment of disease in areas of dentistry and adjacent medicine
- 9. Knowledge and understanding related to the specialized fields of dental technicians (dental technology)
- Knowledge and understanding related to engineering (information processing, CAD/CAM,
   ME (medical engineering), system engineering, and management science)
- o Abilities and skills
- 1. Communication skills required for dental medical staff (dental technician)
- 2. Abilities and skills related to life science, material science, and social dentistry
- 3. Abilities, skills, and attitudes related to prevention, medical examination, medical testing, diagnosis, and treatment of disease in the regions of the mouth, jaw, and face

- 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)

# o 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.

## (1) 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.

#### 2 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.

# 3 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		-		angmeet mg>	Required		N. C	Type of	Year	in which the sub	oject is taken (N	ote 1)
y p			Subject	type	No. of	Class subjects, etc.	No. of credits	course		grade		grade
e					credits			registration Elective/	1st semester	2nd semester	3rd semester	4th semester
		Pe	ace Science	e Courses	2		2	required			0	
	es in ucation	Intr	oduction to	University Education	2	Introduction to University Education	2	Required	0			
	Basic Courses in University Education		Liberal	Arts Education	2	Introductory Seminar for First-Year Students	2	Required	0			
	Bas		Advar	aced Seminar	0	Advanced Seminar	1	Freeelective	0	0		
					2	General Health and Oral Sciences I	2	Required	0			
			Are	ea Courses	2	General Health and Oral Sciences II	2	Required		0		
					4	From Courses in Arts and Humanities / Social Sciences (Note 2)	1 or 2	Elective/ required	0	0		
				Communication	2	Communication Basic I	1		0			
				Basic	2	Communication Basic II	1			0		
		S	English	Communication I	2	Communication I A	1	Required (Note 3)	0			
		ıbject	Liigiisii	Communication 1	2	Communication I B	1	(Note 4)	0			
		ge St		Communication II	2	Communication II A	1			0		
		ngna		Communication ii	-	Communication II B	1			0		
	jects	Foreign Language Subjects				Basic Foreign Language Subjects I	1		0			
	Common subjects	Fore	(You have	Program Languages to select one language	4	Basic Foreign Language Subjects II	1	Elective/ required	0			
ects	ommo		from G	erman, French and Chinese.)	1	Basic Foreign Language Subjects III	1	(Note 5)		0		
n Subj	)					Basic Foreign Language Subjects IV	1			0		
lucatio		I	nformation	and Data Sciences	2	Introduction to Information and Data Sciences	2	Required (Note 6)	0			
rts Ed				Subjects	2	From courses in Information and Data Sciences Subjects	2	Elective/ required		0		
Liberal Arts Education Subjects						Health and Sports Sciences	2		0	0		
Li				10 . 011		Practicum in Sports A	1	Elective/	0	0		
			Health and	1 Sports Subjects	2	Practicum in Sports B	1	required	0	0		
						Sports Theory and Exercise	1		0	0		
			Social Coo	peration Courses	0		1 or 2	Free elective	0	0		
					2	Psychology for Medical Care Workers	2	Required (Note 7)		0		
					2	Development of International Collaboration in Medical Science	2	Required	0			
						Foundation biology for life science (Note 8)	2		0			
						Cell Science	2	Elective/		0		
					4	General Chemistry	2	required	0			
			Basic Sul	ojects		Foundation physics for life science (Note 9)	2	(Note 10)	0			
						Fundamental Physics I	2			0		
						Basic Calculus	2		0			
					2	Foundation Mathematics for Health Science (Note 11)	2	Elective/	0			
					2	Basic Linear Algebra	2	required		0		
						Statistics	2			0		
			Tota	1	40							
-						I						

- Semesters marked witho 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.

  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 1:
- 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.
- 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 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.

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

<Bachelor's Program in Oral Engineering>

niect.		Minimum No. of		Y ear	T	nich the	_		aken	4
oject pe	Class Subject	No. of credits	1st g	grade	2nd	grade	3rd g	rade	4th grade	Note
PC		required	lst semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester 8th semest	я
	Introductory course for oral engineering	1	1							
	Anatomy and Oral Anatomy	2	2							
	<ul><li>Tooth Morphology</li></ul>	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	-				
Эр	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	1			1					
	Dental Health	2			2					
	Social Dentistry	1				1				
	Clinical Medicine	2				1		2		
	Medical Ethics	1			1					
	Basic Biochemistry (included Food Science)	2			2					
	Oral Surgery and Anesthesiology I	1					1			
	Oral Surgery and Anesthesiology I     Oral Surgery and Anesthesiology II	1					1			
	Endodontology	1				1	1			
	Periodontology     Periodontology	1				1				
	Terrodoniology     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	
×	Precision Casting Science	2			2				1	
ırses	Practice on Precision Casting Science	1				1				
δ	CAD/CAM System Engineering	1		1		-				
zed	Medical System Engineering	1		1			1			
iali	Practical Training on Digital Dentistry	1						1		
Specialized Cour	Overview of Oral Engineering I	1					1	-		
0,1	Overview of Oral Engineering I     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		
	Orthodontics     Practice of Orthodontics I	1						1		1
	Practice of Orthodontics I     Practice of Orthodontics II	1						1		1
		1		1				1		
		2		1	2					
	Crown Restoration and Health Engineering II	1				1				1
	© Crown Restoration and Health Engineering III				1	1				
	Practice in Crown Restoration and Health Engineering (Inlay)      Practice in Crown Protection and Health Engineering (Crown D.)	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	<ul> <li>Practice in Crown Restoration and Health Engineering (Bridge I)</li> </ul>	1	l			1	1		1	

< Bachelor's Program in Oral Engineering>

		Minimum		Year	in wh	ich the	e subj	ect is t	aken		
Subject type	Class Subject	No. of credits	1st g	grade	2nd g	grade	3rd g	grade	4th g	grade	Note
type		required	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester	1
	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					
	O 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			
	Practice of Removable Denture and Health	1								1	
, ,	© Esthetic Dentistry	1				1					
Specialized Courses	Practice on Medical Design and Engineering	1								1	
Specialized Courses	Practice of Oral Process Engineering	1								1	
zed	© Clinical Practice in Oral Health Engineering	13						1	6	6	
iali	Medical Design Engineering I	1						1			
pec	Medical Design Engineering II	1						1			
01	<ul> <li>Disaster Dentistry and Forensic Odontology</li> </ul>	1						1			
1	O Dysphagia Rehabilitation	1					1				
	<ul> <li>Special Study for Graduation</li> </ul>	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 be taken repeatedly.
	Seminar of International Dentistry B	1									Offered in even- numbered semesters.Can be taken repeatedly.
	Total	111	3	9	27	17 4	22	16	8	12	

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	subject, and develop them deepening the learning 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 Und	(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 Knowledge and understanding of diseae prevention	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.  Being able to explain almost all contents of
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.	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 hasic 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	further develop studies.	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.
	(5)	The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, biotechnology)	further develop studies.	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)	Comprehensive ability to separate necessary and unnecessary information, summarize and output it	required data. After that process, to be able to extract problems, consider solutions and present them.	After collecting, logically summarizing and 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 fost 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.

																						Evalu	atio	n items																T-4-1
									,			Know		nd Unde		_			•									nd Skills							ompreher					Total weighte
						(1)	_ \	2)	(3)		(4)	W	(5)	W.:.h.	_	(7)		(8)		(9)		(10)	***	(1)	(2		(3)		(4)	XX7 ·	(5)		(1)	(2)		(3)	(4		(5)	d values
Subject type	Class Subject	No. of credits	Type of course registration	semesters	dvalues	Weighte	dvalues	Weighte dvalues	Weighte dvalues W	Veighte dva	alues We	ighte dvalu	nte les Weigh	te dvalues	Weighte dy	values V	veighte d	values V	Veighte dv	alues W	eighte dva	ues Weigl	hte dv	values Weighte	dvalues	Weighte d	values V	Weighte dval	lues Weig	thte dval	ues Weight	e dvalues	s Weighte	dvalues Wei	ghte dvalues	Weighte	dvalues	Weighte	Weighte dvalues Weighte of dvalues	ot evaluati
31					evaluatio		evaluatio	of	evaluatio of	f eva	aluatio of	evalu	atio of	evaluatio	of ev	valuatio o	f e	valuatio o	of ev	aluatio of	eva	uatio of	ev	aluatio of	evaluatio	of e	valuatio o	of eval	uatio of	eval	uatio of	evaluat	tio of	evaluatio of	evaluati	o of	evaluatio	of e	evaluatio of	on items
					n items in the		o n items in the	evaluatio n items	in the n	items in the	the n it	ems in the	n items	tio n items in the	n items in	n the n	items in	n the n	valuatio n i items in	the n	items in the	e n item	ns in		in the	n items in	the n	items in th	ne n iter	ns in th	e n items	in the	n items	in the n iter	ms in the	n items	in the	n items	in the n items	in the subject
	Peace Science Courses	2	Required	3	subject 100	1	subject		subject	sub	oject	subje	ct	subject	su	ubject	S	ubject	su	bject	sub	ect	su	bject	subject	sı	abject	subj	ect	subj	ect	subject		subject	subject		subject	s	subject	100
	Basic Courses in University Education	4	Required	1	100	_																											+		_			$\rightarrow$		100
	Area Courses	8	Required	1,2	100	_																											+							100
Liberal Arts Education		10	Required	1,2			100	1																									+		-					100
Subjects	Information and Data Sciences Subjects	4	Required	1,2																	1	00 1											+							100
	Health and Sports Subjects	2	Required	1,2	100	1																																		100
	Basic Subjects	10	Required	1,2	100	1																																		100
	Introductory course for oral engineering	1	Required	1						5	50	1												50 1																100
	Anatomy and Oral Anatomy	2	Required	1										100	1																									100
	Tooth Morphology	1	Required	3										100	1																									100
	Basic Class of Oral Science	1	Required	3										100	1																									100
	Oral Histology	2	Required	3										100	1																									100
	Practice on Oral Anatomy I	1	Required	3																								10	00 1											100
	Practice on Oral Anatomy II	1	Required	4																								10	00 1											100
	Stmatognathic System and Function	2	Required	3																100	1													$\vdash$						100
	Practice on Stmatognathic System and Function	1	Required	3																								10	00 1					$\vdash$						100
	Physiology and Oral Physiology	2	Required	2										100	1																			$\vdash$	4					100
	Pharmacology and Dental Pharmacology	2	Required	3														100	1															$\vdash$				$\longrightarrow$		100
	Microbiology and Oral Microbiology	2	Required	3										100	1																			$\vdash$				$\longrightarrow$		100
	Pathology and Oral Pathology	2	Required	3										400		-		100	1														_	$\vdash$						100
	Immunology	1	Free elective	3										100	1	-		100	1															$\vdash$						100
	Dental Health Social Dentistry	2	Free elective	4								10	1 1					100	1															$\vdash$				$\longrightarrow$		100
	Clinical Medicine	2	Required Free elective	6								10	1			-		100	1														_		_					100
	Medical Ethics	1	Required	3					100	1								100	1														+							100
	Basic Biochemistry (included Food	2	Required	3					100					100	1	-		-																	+-					100
Specialized Education		1	Required	5										100	•			100	1														+							100
Subjects	Oral Surgery and Anesthesiology II	1	Required	5														100	1														+		-					100
	Endodontology	1	Required	4														100	1																					100
	Periodontology	1	Required	4														100	1																			1		100
	Team Care for Oral Health	1	Required	5						1	100	1																												100
	Dentistry for Persons with Disabilities	2	Required	5														100	1																					100
	Lifestyle-related Dentistry and Geriatric Dentistry	2	Required	5														100	1																					100
	Laws and Regulations for Dental Technicians (included Social Security	1	Required	6						1	100	1	_					T													_									100
	System) Quality and Safety Management ir	1		5														-							-		100	1							_					100
	Dentistry Medical Informatics	2	Required Required	4																	1	00 1					100	1												100
	Health Science on Sports Dentistry and															+		-		+		1							00						+					
	Temporomandibular	1	Required	5																								10	00 1					$\vdash$						100
	Dental Material	1	Required	3												100	1																	$\vdash$						100
	Biomaterials	1	Required	3												100	1																	$\vdash$						100
	Practice on Biomaterial	1	Required	3																					100	1								$\vdash$						100
	Practice on Applied Biomaterial	1	Required	8																					_			10	00 1					$\vdash$						100
	Precision Casting Science	2	Required	3												100	1								4									$\vdash$						100
	Practice on Precision Casting Science	1	Required	4																		00			100	1								$\vdash$						100
	CAD/CAM System Engineering	1	Required	2	-																	00 1																		100
<u></u>	Medical System Engineering	1	Required	5	]																1	00 1			<u> </u>															100

	Iships between the evalua	1			1							8									Eval	uation	items	2															
											K	Knowle	dge and Un	lerstand	ling								Item	,	Ab	ilities and S							Co	omprehen	sive A	bilities			Total weighte
					(1)	)	(2	_	(3)		(4)			(6)		7)	3)		(9)		(10)		(1)		2)	(3)	_	(4)	(5	5)	(1)		(2)		(3)	(4)	_	(5)	d values
Subject type	Class Subject	No. of credits	Type of course registration	semesters	Weighte dvalues W	Veighte	Weighte dvalues	Weighte dva	righte ulues We	eighte dv	values Weight	Weighte dvalues	Weight Weighte dvalue dvalues of	s Weighte	Weighte dvalues	Weighte	Weighte dvalues	Weighte dv	eighte alues W	Veighte d	Veighte values Wei	ighte dva	ighte lues W	Weighte dvalues	Weighte	Weighte dvalues Weigh	Weighte dvalues	Weighte	Weighte dvalues	Weighte	Weighte dvalues We	We ighte dva	eighte values Weig	Weighte dvalues	Weighte	Weighte dvalues V	Weighte dv		Weighte of evaluati
type		creans			of di evaluatio o	values f	of evaluatio	dvalues of of eva	dva dvatio of	alues of ev	f dvalues aluatio of	evaluatio	of evalua	tio of	evaluatio	of	evaluatio	of ev	aluatio o	f e	valuatio of	eva	luatio of	evaluation	of	evaluatio of	evaluati	of	evaluatio	of	evaluatio of	lues of eva	dval aluatio of	ulues of evaluatio	dvalues of	of d evaluatio	dvalues of of ev	of devaluatio of	on items
					in the n		in the	evaluation it n items in t	he n it	luatio n i	items evaluation the n items	in the	evaluatio n item n items in the	n items	in the	evaluatio n items	in the	evaluatio n i n items in	the n	valuatio n	n the n ite	ems in th	he n i	raluatio n items items in the	evaluatio	n items evalua in the n items	in the	evaluatio	n items	evaluatio	in the n it	luatio n it ems in t	the n ite	luatio n items	evaluatio	o n items e	evaluatio n		evaluatio in the subject
	Practical Training on Digital Dentistry	1	Danning	5,6	subject		subject	sub	ject	su	ıbject	subject	subjec	t	subject		subject	su	bject	s	ubject	sub	ject	subject		subject	subject		subject 100	1	subject	sub	bject	subject	-	subject	su	ubject	100
	Overview of Oral Engineering I	1	Required Required	5															100	1									100	1			+		-	+		$\rightarrow$	100
	Overview of Oral Engineering II	1	Required	5															100	1													$\overline{}$			+		$\overline{}$	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													$\overline{}$			+		$\overline{}$	100
	Practice of Orthodontics I	1	Required	6																							100	1								$\vdash$		$\rightarrow$	100
	Practice of Orthodontics II	1	Required	6																							100	1					$\neg$					_	100
	Crown Restoration and Health Engineering	1	Required	2															100	1																			100
	Crown Restoration and Health Engineering II	2	Required	3															100	1																			100
	Crown Restoration and Health Engineering	1	Required	4															100	1																			100
	Practice in Crown Restoration and Health Engineering (Inlay)	1	Required	3																							100	1								1 1			100
	Practice in Crown Restoration and Health 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 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									i		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	Required	8																							100	1					+	-		+		$\rightarrow$	100
Education Subjects	Engineering Removable Denture and Health	2	Required	2															100	1																			100
	Engineering (Complete Denture)  Removable Denture and Health	2	Required	3															100	1																H			100
	Engineering (Partial Denture)  Practice of Removable Denture and Health		•																														+			+		$\rightarrow$	
	(Complete Denture)  Practice of Removable Denture and Health	2	Required	4																							100									$\blacksquare$			100
	(Partial Denture)	2	Required	4																							100	1					_			$\Box$			100
	Practice of Removable Denture and Health (Anaplastology I)	1	Required	5																							100	1								Ш			100
	Practice of Removable Denture and Health (Anaplastology II)	1	Required	5																							100	1											100
	Practice of Removable Denture and Health (Implant Superstructure)	1	Required	6																							100	1											100
	Practice of Removable Denture and Health	1	Required	8																							100	1								4			100
	Esthetic Dentistry	1	Required	4													100	1																		igspace			100
	Practice on Medical Design and Engineering	1	Required	8																							-						50	1 50	1	4			100
	Practice of Oral Process Engineering Clinical Practice in Oral Health	1	Required	8															4															1 50	1	4			100
	Engineering	13	Required	6-8															-								30	1			50		35	1 35	1	50	1	$\dashv$	100
	Medical Design Engineering I  Medical Design Engineering II	1	Required Required	6															+													1	-			50	1	$\dashv$	100
	Disaster Dentistry and Forensic	1	Required	6								100	1						$\dashv$				+								50	•	+			1 30	-	+	100
	Odontology Dysphagia Rehabilitation	1	Required	5													100	1																		+		$\dashv$	100
	Special Study for Graduation	9	Required	6-8																											40	1				30	1	30	1 100
	Special Course in Rehabilitation Make Up	1	Free elective	5																						100 1													100
	Research Start-Up	1	Required	4																						100 1													100
	Seminar of International Dentistry A	1		1,3,5,7,9,11			60	1																												40	1	$\perp$	100
	Seminar of International Dentistry B	1	Free elective 2	,4,6,8,10,12			60	1																												40	1		100

Academic achievements Evaluation items	n of Oral Engineering	1st grade		2nd grade	3rd g	rade	4th	ı grade
Evaluation items	1st semester	2nd semester	3rd semester	4th semester	5th semester	6th semester	7th semester	8th semester
and the second s	Basic Courses in University Education	(©) Area Courses	(③) Peace Science Courses					
noveledge and understanding of liberal arts	Area Courses	(©) Health and Sports Subjects						
ch as humanities and natural science	Health and Sports Subjects     Basic Subjects	(®) Basic Subjects						
	7) Basic Badjees							
e knowledge and understanding on foreign	Foreign Language Subjects	(©) Foreign Language Subjects	(△) Seminar of International Dentistry A	(△) Seminar of International Dentistry B	(△) Seminar of International Dentistry A	(Δ) Seminar of International Dentistry B	(Δ) Seminar of International Dentistry A	(Δ) Seminar of International Dentistry B
nguages and culture	Seminar of International Dentistry A	( $\Delta$ ) Seminar of International Dentistry B						
			(©) Medical ethics					
nowledge and understanding on principles			(e) ivedical edities					
f medicine								
Inowledge and understanding of basic	Introductory course for oral engineering				(©) Team Care for Oral Health	(a) Laws and Regulations for Dental Technicians (include Social Security System)	d	
ehavior as a dental professional (a dental						Social Security System		
echnician)								
Knowledge and understanding of social				(©) Social Dentistry		(a) Disaster Dentistry and Forensic Odontology		
lentistry			(a) B : (b) (c) (d)					
(0)	Anatomy and Oral Anatomy	(©) Physiology and Oral Physiology	(©) Basic Class of Oral Science (©) Tooth Morphology					
			(©) Histology and Oral Histology					
Knowledge and understanding of life science			(©) Microbiology and Oral Microbiology					
NA ANALON AND AND ANALON AND ANAL			(△) Immunology					
			(®) Basic Biochemistry (included Food Science	)				
			(©) Dental Material					
Knowledge and understanding of dental naterials and biomaterials			(©) Biomaterials					
and oromaterials			(©) Precision Casting Science					
			(®) Pharmacology and Dental Pharmacology	(®) Endodontorogy		(Δ) Clinical Medicine		
Knowledge and understanding of diseae			(◎) Pathology and Oral Pathology (△) Oral Health	(©) Periodontology (©) Esthetic Dentistry	(③) Oral Surgery and Anesthesiology II (③) Dentistry for Persons with Disabilities			
prevention, treatment, diagnosis, and medical			(a) Otal Health	(e) Estilette Defitistry	(©) Lifestyle-related Dentistry /Geriatric Dentistry			
check-up concerning dentistry and other related studies					(®) Pediatric Dentistry			
***************************************					(©) Dysphagia Rehabilitation			
Understanding and knowledge of dental		(©) Crown Restoration and Health Engineering I Removable Denture and Health Engineering (Comple	(③) Stmatognathic System and Function	(©) Crown Restoration and Health Engineering III	(©) Overview of Oral Engineering I			
technician (dental technology)		Denture)	(©) Crown Restoration and Health Engineering Removable Denture and Health Engineering		(©) Overview of Oral Engineering II			
			(©) Denture)		(③) Orthodontics			
The knowledge and understanding on related engineering (information processing,	Information and Data Sciences Subjects	(©) Information and Data Sciences Subjects		(®) Medical Informatics	(©) Medical System Engineering			
CAD/CAM, ME(medical engineering),		(©) CAD/CAM System Engineering		(©) Medical Equipment				
system engineering, management)								
Communication skills as a dental professional								
(a dental technician)								
Abilisis and Julius and State			(③) Practice on Biomaterial	(©) Practice on Precision Casting Science				
Abilities and skills concerning life science, materials technology, and social dentistry								
The ability • skills and attitude related to prevention • examination • diagnosis •				(©) Research Start-Up	(®) Quality and Safety Management in Dentistry			
treatment of diseases in oral · maxillofacial					(△) Special Course in Rehabilitation Make Up			
region								
			(©) 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 Func	(©) Practice in Crown Restoration and Health Engineerin		(©) Practice of Orthodontics I		(©) Practice in Crown Restoration and Health E
***************************************			Practice in Crown Restoration and Health E	(Crown 1)	(Bridge I)		<del></del>	
The capacity and attitude necessary for			(◎) (Inlay)	(Crown II)	(Bridge II)	(S) Practice of Orthodontics II		(©) Practice of Removable Denture and Health
practicing specialized fields of dental technicians (dental technique) as a dental				(©) Practice of Removable Denture and Health (Complet	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
team				Practice of Removable Denture and Health (Partial	Practice in Crown Restoration and Health Engineering	Clinical Practice in Oral Health Engineering		
				Donture)	(Facing Crown and Implant Superstructure II)	(a) Chimedi Fractice in Oral Frediti Engineering		
				Demuicy				
				Dentaley	(©) Practice of Removable Denture and Health (Anaplastology I)			
					Practice of Removable Denture and Health (Anaplastology I)  Practice of Removable Denture and Health			
The ability and skills to apply related					(©) Practice of Removable Denture and Health (Anaplastology I)  (©) (O) (Anaplastology II)	Practical Training on Digital Dentistry		
The ability and skills to apply related engineering (information processing,					(©) Practice of Removable Denture and Health (Anaplastology I)  (©) (O) (Anaplastology II)	Practical Training on Digital Dentistry		
The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management,					(©) Practice of Removable Denture and Health (Anaplastology I)  (©) (O) (Anaplastology II)	(©) Practical Training on Digital Dentistry		
The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, intechnology)					Practice of Removable Denture and Health (Anaplastology I) Practice of Removable Denture and Health (Anaplastology II)  Practical Training on Digital Dentistry			
The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, ioitechnology)  Comprehensive learning ability and behavior (©	Introductory course for oral engineering				(©) Practice of Removable Denture and Health (Anaplastology I)  (©) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I	(©) Special Study for Graduation	(©) Special Study for Graduation
The ability and skills to apply related ngineering (information processing, CADICAM, Mel(medical engineering), system engineering, management, iotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over	) Introductory course for oral engineering				(©) Practice of Removable Denture and Health (Anaplastology I)  (©) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I     Medical Design Engineering II	(©) Special Study for Graduation	(©) Special Study for Graduation
The ability and skills to apply related magineering (information processing, ADICAM, ME(medical engineering), system engineering, management, iotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over course of life	introductory course for oral engineering				(©) Practice of Removable Denture and Health (Anaplastology I)  (©) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I	(©) Special Study for Graduation  (©) Clinical Practice in Oral Health Engineering	
The ability and skills to apply related negineering (information processing, AD/CAM, ME(medical engineering), system engineering, management, siotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over course of life  The general ability and attitude in related to myestigation, diagnosis, treatment and	introductory course for oral engineering  introductory course for oral engineering				(©) Practice of Removable Denture and Health (Anaplastology I)  (©) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I     Medical Design Engineering II     Special Study for Graduation		
The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, biotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life  The general ability and attitude in related to investigation, diagnosis, treatment and	introductory course for oral engineering  introductory course for oral engineering  introductory course for oral engineering				(©) Practice of Removable Denture and Health (Anaplastology I)  (©) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I     Medical Design Engineering II     Special Study for Graduation		(②) Practice on Medical Design and Engineerin (③) Practice of Oral Process Engineering
The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, siotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life  The general ability and attitude in related to investigation, diagnosis, treatment and prevention in oral * maxillofacial region	introductory course for oral engineering  introductory course for oral engineering				(©) Practice of Removable Denture and Health (Anaplastology I)  (P) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I     Medical Design Engineering II     Special Study for Graduation		(a) Practice on Medical Design and Engineerin (b) Practice of Oral Process Engineering (c) Clinical Practice in Oral Health Engineerin
The ability and skills to apply related engineering (information processing, CADICAM, Melmedical engineering), system engineering, management, sointechnology)  Comprehensive learning ability and behavior of sa dentist, which is to voluntarily learn over a course of life  The general ability and attitude in related to a newestigation, diagnosis, treatment and reverention in oral * maxillofacial region  The comprehensive capacity and attitude encessary for practicing specialized fields of	introductory course for oral engineering  introductory course for oral engineering				(©) Practice of Removable Denture and Health (Anaplastology I)  (P) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I     Medical Design Engineering II     Special Study for Graduation     Clinical Practice in Oral Health Engineering	(©) Clinical Practice in Oral Health Engineering	(©) Practice on Medical Design and Engineerin     (©) Practice of Oral Process Engineering     (©) Clinical Practice in Oral Health Engineerin     (©) Practice on Medical Design and Engineerin
The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, biotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life  The general ability and attitude in related to investigation, diagnosis, treatment and prevention in oral * maxillofacial region  The comprehensive capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a	introductory course for oral engineering  introductory course for oral engineering				(©) Practice of Removable Denture and Health (Anaplastology I)  (P) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I     Medical Design Engineering II     Special Study for Graduation     Clinical Practice in Oral Health Engineering	(©) Clinical Practice in Oral Health Engineering	(©) Practice on Medical Design and Engineering (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineerin (©) Practice on Medical Design and Engineerin (©) Practice of Oral Process Engineering
The ability and skills to apply related engineering (information processing, CAD/CAM, Mc/medical engineering), system engineering, management, biotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life  The general ability and attitude in related to investigation, diagnosis, treatment and prevention in oral * maxillofacial region  The comprehensive capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team					(©) Practice of Removable Denture and Health (Anaplastology I)  (©) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I     Medical Design Engineering II     Special Study for Graduation     Clinical Practice in Oral Health Engineering  Clinical Practice in Oral Health Engineering	(©) Clinical Practice in Oral Health Engineering      (©) Clinical Practice in Oral Health Engineering	(©) Practice on Medical Design and Engineering (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineerin (©) Practice on Medical Design and Engineerin (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineerin
The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, biotechnology)  Comprehensive learning ability and behavior  Comprehensive learning ability and behavior  a course of life  The general ability and attitude in related to investigation, diagnosis, treatment and prevention in oral * maxillofacial region  The comprehensive capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team	Introductory course for oral engineering	(A) Seminar of International Dentistry B	(Δ) Seminar of International Dentistry A	(Δ) Seminar of International Dentistry B	(©) Practice of Removable Denture and Health (Anaplastology I)  (P) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry	Medical Design Engineering I     Medical Design Engineering II     Medical Design Engineering II     Special Study for Graduation     Clinical Practice in Oral Health Engineering     Clinical Practice in Oral Health Engineering	( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering	(©) Practice on Medical Design and Engineering (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineerin (©) Practice on Medical Design and Engineerin (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineerin (△) Seminar of International Dentistry B
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The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, biotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life  The general ability and attitude in related to investigation, diagnosis, treatment and prevention in oral * maxillofacial region  The comprehensive capacity and attitude necessary for practicing specialized fields of dental technique) as a dental technicians (dental technique) as a dental team  (AC Comprehensive ability to separate necessary and unnecessary information, summarize and		(Δ) Seminar of International Dentistry B	(Δ) Seminar of International Dentistry A	(Δ) Seminar of International Dentistry B	(©) Practice of Removable Denture and Health (Anaplastology I)  (P) Practice of Removable Denture and Health (Anaplastology II)  (©) Practical Training on Digital Dentistry  (△) Seminar of International Dentistry A	Medical Design Engineering I Medical Design Engineering II Special Study for Graduation Clinical Practice in Oral Health Engineering Clinical Practice in Oral Health Engineering Medical Design Engineering I Medical Design Engineering II Seminar of International Dentistry B	( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering	(©) Practice on Medical Design and Engineering (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineering (©) Practice on Medical Design and Engineering (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineering (△) Seminar of International Dentistry B
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The ability and skills to apply related engineering (information processing, CAD/CAM, ME(medical engineering), system engineering, management, biotechnology)  Comprehensive learning ability and behavior as a dentist, which is to voluntarily learn over a course of life  The general ability and attitude in related to investigation, diagnosis, treatment and prevention in oral - maxillofacial region  The comprehensive capacity and attitude necessary for practicing specialized fields of dental technicians (dental technique) as a dental team  Comprehensive ability to separate necessary and unnecessary information, summarize and output it  The general ability necessary to discover the issues on oral engineering and conduct		(A) Seminar of International Dentistry B	(Δ) Seminar of International Dentistry A	(Δ) Seminar of International Dentistry B	(Φ) Practice of Removable Denture and Health (Anaplastology I)  (Φ) Practice of Removable Denture and Health (Anaplastology II)  (Φ) Practical Training on Digital Dentistry  (Δ) Seminar of International Dentistry A	Medical Design Engineering I Medical Design Engineering II Special Study for Graduation Clinical Practice in Oral Health Engineering Clinical Practice in Oral Health Engineering Medical Design Engineering I Medical Design Engineering II Seminar of International Dentistry B	( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering  ( ) Clinical Practice in Oral Health Engineering	(©) Practice on Medical Design and Engineering (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineering (©) Practice on Medical Design and Engineering (©) Practice of Oral Process Engineering (©) Clinical Practice in Oral Health Engineering (△) Seminar of International Dentistry B
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# Program member list of Bachelor's Program in Oral Engineering

04/01/2024

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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