# School of Dentistry

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## School of Dentistry

The Chonnam National University (CNU) School of Dentistry was established with the purpose of training oral health professionals equipped with fundamental knowledge, skills, and the spirit of service to meet the needs of the nation and the local community.

The CNU School of Dentistry takes pride in and maintains a sense of mission in that it has produced 2,779 graduates and 1,198 master's and doctoral degree graduates. These alumni have been playing an important role in national and social developments, as well as in bringing prestige and growth to our School of Dentistry.

The transition of the Dental College to the School of Dentistry in March 1, 2005 laid the foundation for growth in quantity and quality. A combined dental hospital and clinical education center building with state-of-the-art facilities and high-tech dental equipment has been built on the Yongbong Campus. This building is 18,624 square meters in size and is in harmony with the surrounding woodland, creating an eco-friendly environment and emerging as a world-class dental school. In addition, the Educational Research Center was completed in 2020 next to the Clinical Education Center and is expected to facilitate collaboration between basic and clinical research.

The Chonnam National University School of Dentistry operates from the dental science laboratories (Building No. 2) with high-tech laboratory and practical equipment; from the Education Research Center (Building No. 3) where undergraduate and graduate education, dental science research, and clinical trials take place; and from the Chonnam Dental Care Center (CDCC) and Dental Hospital with state-of-the-art dental equipment and outstanding dental staff. The school runs the largest National Dental Technician Clinical Skills Testing Center in the nation with treatment by students to provide clinical training for its students. The school also runs the nation's finest testing center in preparation for the National Dental Technician Clinical Skills Test and is making every effort in training talented dentists by maintaining state-of-the-art educational equipment such as the simulation system and through continuous procurement of the latest dental practical equipment.

The CNU School of Dentistry's Department of Dental Science consists of two faculties - the Faculty of Basic Science in Dentistry and the Faculty of Clinical Dentistry. The Faculty of Basic Dentistry includes the fields of Oral Anatomy, Dental Biomaterials, Oral Biochemistry, Oral Microbiology, Oral Pathology, Preventive and Public Heath Dentistry, Pharmacology and Dental Therapeutics, Dental Science Education,

and Dental Biomaterials. The Faculty of Clinical Dentistry includes the fields of Orthodontics, Oral Medicine and Oral Diagnosis, Oral and Maxillofacial Radiology, Oral and Maxillofacial Surgery, Pediatric Dentistry, Dental Anesthesiology, Conservative Dentistry, Prosthodontics, Clinical Dentistry and Periodontology. The Department of Dental Science puts emphasis on early clinical study and offers an integrated curriculum that links various courses to provide the professional dental education that the current times demand.

The CNU School of Dentistry's Department of Dental Science is a single-department graduate school that consists of talented teaching staff and around 280 outstanding students. Its integrated program with a quota of 35 students began in 2014. Under this program, a student enters the CNU School of Dentistry after graduating from high school and completes the three-years undergraduate curriculum followed by a four-year graduate curriculum. Another integrated program is available where one entering graduate school student is selected to earn both master's and doctorate degrees by undertaking seven years of required coursework and dissertation writing.

Under the current school administration, the academic staff has been bolstered by hiring a large number of talented professors. Its faculty of 56 (48 full-time professors and 8 assistants) are putting forth their best efforts in improving the quality of education and research capability, as well as contributing to internationalizing education through an increased number of international professors and offering overseas training opportunities for students.

The school was selected as a Brain Korea 21 research project grantee in 2006 producing excellent research achievements and making great contributions in training dental research personnel. Also, the school was the first dental hospital to be selected by the Ministry of Health and Welfare in February 2009 to establish the Dental Clinic for Persons with Special Needs. This became a big turning point in providing dental care services to the disabled in the local region. This also created plenty of field training opportunities for the students in dealing with disabled patients and created opportunities for serving the local community. The Oral Care Center continues to provide dental services to disabled patients of the region today.

From September 2011 to August 2018, the Research Center for Biomineralization Disorders (RCBD) had been selected annually as the leading MRC research center by the Ministry of Education, Science, and Technology and by the National Research Foundation of Korea. For its research in biomineralization, the RCBD has received a research grant of one billion won annually for seven years. The research center has been selected again in September 2019 and won a research grant of 10.5 billion won for the next seven years. The RCBD is expected to play a crucial role in developing new technology for the medical and dental industry in the future.

CNU signed a Memorandum of Understanding (MOU) for the development of the National Examination Practical Test Center for Dentists in 2021 and was selected as a national examination practical test center. The CNU Dental Practicum Test Center is composed of 9 rooms with a total floor area of 311.58 $m^2$. It is equipped with advanced educational facilities, including simulation practice tables, dental unit chairs,

and an AV system in the clinical practical test room to provide students with high-level education and practical training.

Graduates of the school who pass their National Dentist Licensing Examination may contribute to the national oral health as clinicians and may work as professionals at oral health education and research centers. The CNU School of Dentistry is devoted to training talented dentists and oral health professionals by providing quality dental education.

## ■ Educational Goals

Our goal is to train oral health professionals equipped with fundamental knowledge, skills, and the spirit of service to meet the needs of the nation and the local community.

**We aim to:**

1. Develop an open mind and a sense of professionalism to be able to communicate with others efficiently. (**Open-minded professionalism**)
2. Provide a fundamental understanding of the human body and train students with professional knowledge and skills to be able to diagnose, treat, and prevent oral and maxillofacial diseases. (**Excellent dental education**)
3. Develop creative research capabilities and information utilization skills regarding dentistry and related disciplines. (**Creative ability**)
4. Develop skills and abilities needed to actively participate and serve in improving the public oral health of the nation and the local community. (**Comprehensive dental and social service**)

## ■ Degree Requirements

Course Registration and Graduation

Each student is required to submit his/her application card for course enrollment to the Dean through the supervising professor during the course registration session of each semester.

The academic year is from the first day of March to the last day of February the following year. The academic year is divided into two semesters: the first semester is from March 1st to the end of August, and the second semester is from September 1st to the end of February the following year. Summer and winter courses are held for four weeks during each vacation period.

There are final exams, midterm exams, spot tests, special tests, graduation exams, and make-up exams. Midterm exams, final exams, and spot tests are administered to students in regular courses.

For graduation, 162 credit hours must be earned. The graduation of students who have completed eight semesters or more, who possess the appropriate GPAs, and whose graduation papers or exams were satisfactory, is decided by faculty of the School of Dentistry to achieve a Doctorate of Dental Science degree.

After passing the National board Exam for general dentists, graduated students are qualified to practice work as practicing dentists.

## ■ What Do You Study?

**First Year (Major Requirement)**

Public health dentistry
Oral histology
Crown and bridge prosthodontics1
Anesthesiology
Operative dentistry1
Medicine
Human Immunology
Practice of human microbiology and pharmacology
Human microbiology
Human pathology
Practice of human pathology
Practice of human physiology/biochemistry
Human physiology
Human biochemistry
Human pharmacology
Human histology
Practice of human histology
Human anatomy
Practice of human anatomy
History of dentistry
Dental materials1
pratice of dental materials
Dental anatomy and occlusion 1
Dental anatomy and occlusion 2
Pratice of dental anatomy and occlusion
Periodontology1

**Second Year (Major Requirement)**

Orthodontics1
Practice of orthodontics1
Oral pathology
Practice of oral pathology
Oral and maxillofacial radiology1
Oral and maxillofacial rodiology2
Oral and maxillofacial surgery1
Oral and maxillofacial surgery2
Practice of oral and maxillofacial surgery
Oral diagnosis
Partial denture prosthodontics1
Partial denture prosthodontics2
Practice of partial denture prosthodontics1
Endodontics1
Endodontics2
Practice of endodontics1
Practive of endodontics2
Crown and bridge prosthodontics2
Practice of crown and bridge prosthodontics1
Operative dentistry2
Operative dentistry3
Practice operative1
Practice of operative dentistry2
Pediatric dentistry1
Pediatric dentistry2
Practice of pediatric dentistry1
Practice of pediatric dentistry2
Preventive dentistry
Practice preventive dentistry
Complete denture prosthodontics1
Complete denture prosthodontics2
Practice of complete denture prosthodontics1
Dental local anesthesiology
DentistRoleinSociety
Periodontology2
Practice of periodontology

**Third Year (Major Requirement)**

Infection control
Orthodontics2
Practice of orthodontics2
Oral medicine1
Oral medicine2
Oral and maxillofacial radiology3
Oral and maxillofacial surgery3
Oral and maxillofacial surgery4
Partial denture prosthodontics3
Practice of partial denture prosthodontics2
Endodontics3
Crown and bridge prosthodontics3
Practice of crown and bridge prosthodontics2
Geriatric dentistry
Methods in Scientific Research1

Methods in Scientific Research2
Craniomandibular disorders and orofacial pain
Operative dentistry4
Pediatric dentistry3
Clinical communications
Clinical oral and maxillofacial radiology1
Clinical pathology
Clinical practice1
ClinicalPractice(Subinternship)2
Complete denture prosthodontics3
Practice of complete denture prosthodontics2
Dental therapeutics
DentalEthics
Dental materials2
Periodontology3

**Fourth Year (Major Requirement)**

Field study
Forensic dentistry
Medical laws
Adult orthodontics
Esthetic dentistry
Oral and maxillofacial plastic surgery
Practice of clinical anatomy
Clinical oral pathology
Clinical oral and maxillofacial radiology
Clinical oral and maxillofacial surgery
Clinical partial denture prosthodontics
Clinical crown and bridge prosthodontics
Clinical conservative dentistry
Clinical pediatric dentistry
Objective structured clinical examination
Clinical practice3
ClinicalPractice(Subinternship)4
Clinical Case Study
Clinical complete denture prosthodontics
Clinical periodontology
Case Discussion
Volunteer Service and the Community
Dental management
Dental implantology
Practice of implantology

## ■ Graduate Courses

Methodology for Dental Research (Ⅰ)
Methodology for Dental Research (Ⅱ)
Statistics in Dentistry (Ⅰ)
Statistics in Dentistry (Ⅱ)
Current Topics of Dental Science (Ⅰ)
Current Topics of Dental Science (Ⅱ)
Current Trends of Dental Science (Ⅰ)
Current Trends of Dental Science (Ⅱ)
Research for the Master's or Doctoral Degree
Clinical Perspective of Dental Nutrition
Advanced Course of Oral Biochemistry
Experimental Clinical Oral Biochemistry (Ⅰ)
Molecular Biology in Oral Cancer Cell
Molecular Biology in Dentistry
Orofacial Pain
Physiology of Hard Tissue and Temporomandibular Joint
Salivary Physiology
Dental Neurophysiology
Taste, Smell and Speech
Chemotherapy on Oral Infectious Disease
Molecular Pharmacology in Dentistry
Pharmacological Control of Orofacial Pain
Genetic Disorders in Dentistry
Drug and Gene Therapy on Oral Cancer
Microbial Aspects of Periodontal Disease
Histophysiology of Periodontal Disease
Advanced Clinical Periodontology
Current Topics in Periodontology
Esthetic Periodontics
Nonsurgical Periodontal Therapy
Pain Control
Outpatient Anesthesia
Fluid and Electrolyte Balance

Cardiopulmonary Resuscitation
Patient Monitoring
Functional Jaw Orthopedics
Growth and Development of Oromaxillofacial Tissue
Behavior Management of Children
Preventive Dentistry of Children
Team Approach of Cleft Lip and Palate
Oral Microbiology
Oral Immunology
Experimental Oral Microbiology
Experimental Oral Immunology
Clinical Oral Microbiology
Central Nervous System in Dentistry
Cell Biology in Dentistry
Biology of Dental Hard Tissue
Applied Anatomy of the Head and Neck
Advanced Oral Histology
Gerontological Biology in Dentistry
Growth of Skull after Birth
Advanced Hard Tissue Biology
Technics in Molecular Biology
Experiment of Oral Pathology
Oncology of Oral Cavity
Pathology of Dental Caries
Pathology of Pulpal and Periapical Diseases
Pathology for Anomaly in Maxillofacial Region
Diseases of Salivary Glands
Immunopathology of Oral Cavity
Review of Recent Studies in Oral Pathology
Colloquium in Clinical Oral Pathology
Advanced Oral and Maxillofacial Surgery
Oral Anomaly
Orthognathic Surgery
Maxillofacial Reconstructive Surgery
Practice in Functional Rehabilitation of TMJ
Transplantation Immunology
Maxillofacial Traumatology
Current Topics of Oral and Maxillofacial Surgery
Surgical Orthodontic Treatment
TMJ in Orthodontics
Periodontal Orthodontic Interrelationship
Case Planning Seminar
Orthodontic Treatment for Orthognathic Surgery
Mixed Dentition Treatment
Retention and Relapse
Growth Modification in Orthodontics
Orthodontic Management of Prosthodontic Patients
Esthetic Aspects in Orthodontics
Advanced Dental Materials
Dental Materials Science
Dental Polymer Materials
Current Topics of Dental Materials
Metallic Dental Materials Dental Ceramics
Dental Impression Materials
Dental Cements
Esthetic Restorative Materials
Dental Implant Materials
Properties and Evaluation of Dental Materials
Biocompatibility Testing of Dental Materials
The Dental Pulp Biology
Endodontic Microbiology
Cardiology
Plastic Restoration
Esthetic Dentistry
Pulp and Periapical Disease
Endodontic Immunopathology
Ceramic Restoration
Modern Endodontic Therapy
Endodontic Microsurgery
Current Topics in Canal Obturation
Current Topics in Canal Shaping
Dental Implantology
Occlusion
Gerodontics
Theory and Practice of Fixed Prosthodontics
Removable Partial Prosthodontics
Esthetic Prosthodontics
Precision Attachment in Removable Prosthodontics
Modern Dental Ceramics
Periodontic and Prosthodontic Dentistry
Modern Practice in Crown and Bridge Prosthodontics
Modern Removable Partial Denture
Prosthodontic Treatment for Edentulous Patient

Advanced Oral Diagnosis
Advanced Oral Medicine
The Theory of Maxillofacial Pain-dysfunction
Study on Oral Diagnosis & Oral Medicine
Oral Diagnosis and Treatment Plan
Diagnosis of Dental Emergency
Theory of Oral Soft Tissue Lesion
Examination for Oral Diagnosis
Myology of Oral and Mandible
Clinical Practice of Oral Diagnosis
Clinical Practice of Oral Diagnosis
Theory of Craniofacial Pain
Oral Radiology
Radiographic Interpretation
Oral Radiographic Technique
Specialized Radiographic Techniques
TMJ Radiology
Radiation Biology
Salivary Gland Imaging
Oral & Maxillofacial Radiographic Therapy
Oral & Maxillofacial Radiographic Anatomy
Radiation Dosimetry & Protection
Oral & Maxillofacial Sonography
Oral and Maxillofacial Imaging
Prevention of Oral Disease
Dental Health Statistics
School Dental Health
Oral Epidemiology
Community Dental Health
Dental Health Programmity
Adult Dental Health
Geriatric Dental Health
Child Dental Health
Dental Health Administration
Dental Manpower Development
Dental Care Social Insurance System

## ■ Academic Departments and Faculties

**Basic Science in Dentistry**

**▷ Department of Oral Microbiology**

**Faculty**

Professor / Kang, In-Chol
Professor / Ohk, Seung-Ho

**Research areas**

Molecular diagnosis of oral bacteria
Cellular microbiology of periodontal disease

The courses offered in this specialty are Human Immunology, Human Microbiology, and Microbiology Practice. Human Immunology studies the composition and behavior of the immune system that is responsible for our body's defense against microbes and immune disorders. Human Microbiology studies the characteristics of pathogenic bacteria and viruses, as well as the diagnosis and treatment of various infectious diseases. It puts particular emphasis on microbes related to oral diseases (dental caries, periodontitis, etc). In Microbiology Practice, students will experiment with bacterial staining, microscope observations, pure culture methods, and antibiotic susceptibility testing. Students will be able to develop skills for accurate diagnosis and treatment of various infectious diseases including oral diseases.

**▷ Department of Oral Pathology**

**Faculty**

Professor / Kim, Ok-Jun
Associate Professor / Kim, Young

**Research areas**

Oral and maxillofacial cancer
Photobiology application to dentistry
Stem cell and cell free therapy for degenerative disease
Molecular imaging and target probe application for various disease

Differential expressed genes and bio-marker screening in oral & maxillofacial tumor

Oral Pathology is an applied medicine specialty that connects basic medicine with clinical medicine. It studies the changes in cells and tissues to identify the causes and pathogenesis of diseases, and also studies diseases occurring in the oral cavity and its surrounding structures. It aims to provide pathological diagnosis of biopsies and surgically operated tissues conducted in other departments and hospitals. Related laboratory practice will provide histological understanding and clinical experience.

**▷ Department of Oral Physiology**

**Faculty**

Professor / Kim, Won-Jae
Professor / Jung, Ji-Yeon

**Research areas**

Role of autophagy in oral biology
Differentiation from adult neural stem cells

The purposes of Oral Physiology Laboratory are to make undergraduate students in the School of Dentistry understand the cellular functions and regulating mechanisms in which life phenomena are normally involved in functions and the interaction of tissues or organs of the human body. In our lab, researches in progress are as follows;

1. Autophagy regulation in dentin formation and inflammation
2. Proliferation and differentiation mechanism of adult neuronal stem cell

Human Physiology is the study that explains the functions of cells and organs that make up the human body. It is the fundamental discipline to understanding the physiological mechanisms of life phenomena and is the basic dentistry specialty in understanding clinical courses and other related subjects. In Human Physiology Practice, students will learn about the biochemical properties of cells and biomaterials that make up the human body and the physiological mechanisms related to the maintenance of homeostasis in the human body.

**▷ Department of Oral Biochemistry**

**Faculty**

Professor / Lee, Tae-Hoon
Associate Professor / Park, Sang-Wook

**Research areas**

General biochemistry of oral biology
Redox mediated cell signaling & disease

The oral tissues of the craniomaxillofacial area can be largely divided into hard and soft tissues. Oral Biochemistry studies the biochemical metabolic processes of the hard and soft tissues that make up the craniomaxillofacial area. It deals with various biochemical metabolic processes and metabolic abnormalities, such as carbohydrates, lipids, and protein metabolism in tissues, to discover a connection to the occurrence of oral diseases.

**▷ Department of Oral Anatomy**

**Faculty**

Professor / Lee, Eun-Joo
Professor / Kim, Sun-Hun
Professor / Kim, Min-Seok

**Research areas**

Hard tissue biology
Direct lineage reprogramming
Identification of novel genes in tooth development

The courses covered in the Oral Anatomy specialty include Human Anatomy, Applied Human Anatomy, Histology, Oral Histology, Dental Shapes and Occlusion, along with related laboratory practice. Education on human anatomy as a whole deals with the normal structure of the human body, which is the basis of pathology, and aims to lay the foundation for dental clinical education and its laboratory practice.

### ▷ Department of Preventive and Public Health Dentistry

**Faculty**

Professor / Choi, Choong-Ho
Associate Professor / Chung, Ki-Ho

**Research areas**

Oral epidemiology
Prevention of oral diseases
Anti-plaque and anti-gingivitis agents
Development of tooth pastes and oral hygiene products

Preventive Dentistry studies the principles and methods of oral disease prevention for individual patients, whereas Public Oral Dentistry is that specialty that promotes oral health for the local community and population. Through fundamental research and clinical practice on oral disease prevention, we contribute to public oral health by seeking and creating ways to improve the quality of life of the people and by removing potential risk factors of oral diseases,

### ▷ Department of Dental Materials

**Faculty**

Professor / Park, Yeong-Joon
Professor / Song, Ho-Jun

**Research areas**

Evaluation of biocompatibility for dental materials
Development of advanced dental products including restorative and implant materials

Dental Materials is a basic program within the Department of Dental Science with the aim of understanding the physical and chemical properties of dental materials used in dental clinics and to impart knowledge through academic systematization of the differences in clinical applications and handling methods according to the characteristics of the material. The department has manufacturing equipment and various analytical laboratory devices for material experiments, and has all the equipment necessary for laboratory practice for undergraduate and graduate students. By implementing cutting-edge technology, the department puts a focus on developing new composite resins and dental alloys, on developing a multi-purpose hydrophilic dentin binder, on research for surface modification of implant materials, on research for highly effective dental polyvinyl siloxane impression materials, and on research for biocompatibility assessment of dental materials.

### ▷ Department of Pharmacology and Dental Therapeutics

**Faculty**

Professor / Koh, Jeong-Tae
Professor / Lee, Shee-Eun
Professor / Ryu, Je-Hwang

**Research areas**

Molecular bone biology
Vaccine development and mucosal immunology
Pathogenic mechanism of hard tissue degenerative diseases

Dental Pharmacology aims to provide the skills for proper clinical use of drugs by understanding (a) the general principles of drug interaction based on basic medicine, (b) the pharmacological interaction of drugs with the autonomic nervous system, central nervous system, various organ functions, and neurotransmitters, and (c) the pharmacological mechanism, side effects, and toxicity of chemotherapeutic agents.

### ▷ Department of Dental Science Education

**Faculty**

Professor / Lee, Seok-Woo
Professor / Lim, Hoi-Soon

**Research areas**

Development and implementation of novel didactic methodology

Enhancing students' involvement in academic, research, and service activities
Development and managing courses related to medical/dental humanities

The Dental Science Education Department was established by Dean Won-man Oh in 2005 during the conversion period into the School of Dentistry for the students entering the graduate school after completing their four-year undergraduate program. The department aims to train oral health professionals with the knowledge, skills, and spirit of service to meet the needs of the nation and the local community. Students will learn about various human interactions in the medical field (i.e., doctor-patient interaction and interaction between colleagues) and be able to apply humanities such as history, culture, ethics, philosophy, and management of medicine in real-life situations.

**Clinical Dentistry**

**▷ Department of Oral and Maxillofacial Surgery**

**Faculty**

Professor / Oh, Hee-Kyun
Professor / Park, Hong-Ju
Professor / Kook, Min-Suk
Associate Professor / Jung, Seung-Gon
Associate Professor / Ryu, Jae-Young

**Research areas**

Oral cancer
Orthognathic surgery
Craniofacial deformity
Maxillofacial plastic and Reconstructive Surgery

The Department of Oral and Maxillofacial Surgery is the surgical specialty in dental clinics that includes surgical diagnosis, esthetic treatment, and the functional treatments of diseases, injuries and defects of intraoral organs such as teeth, gingiva, oral mucosa and tongue, and reconstructive treatment of jaws, faces, heads, and necks. Oral and maxillofacial surgeons are trained to treat and care for patients who have maxillofacial injuries, facial deformities, infections, dental implants, cleft lips and palates, salivary gland disease, oral mucosal disease, and the cyst of the jaw. Department of Oral and Maxillofacial Surgery is in the process of researching on oral cancer, maxillofacial reconstructive surgery, craniofacial deformity, cleft lip and palate, and the basic study and clinical treatment of dental implants, and TMJ disorder.

**▷ Department of Orthodontics**

**Faculty**

Professor / Cho, Jin-Hyoung
Professor / Lee, Kyung-Min
Associate Professor / Oh Min-Hee

**Research areas**

Early Orthodontic Treatment
Adult Interdisciplinary Treatment
Craniofacial Growth and Development
3D Imaging Analysis using cone-beam CT
3D Digital Orthodontics using Laser Scan and Stereophotogrammetry

Orthodontic treatment is the field of dentistry that treats malocclusion with normal occlusion. It consists of orthodontic treatment, which moves individual teeth to create an even dentition, and orthopedic treatment, which induces harmonious growth of the maxilla and mandible in growing children who have a non-esthetic appearance due to a mismatch of the maxilla and mandible. have. It is the newest and most specialized field of dentistry, making it the first specialty in dentistry to be established.

In the Orthodontics speciality, professors and former trainees are striving for academic excellence and high-quality treatment, and they are playing a leading role in domestic clinical orthodontics. By introducing the concept of interdisciplinary treatment into clinical practice for the first time in Korea, it is providing the

best treatment for patients and has expanded its treatment area early to include advanced orthodontic fields such as lingual correction and esthetic correction, which have recently become subjects of interest. In particular, in the field of adult orthodontics, which is orthodontic treatment for adults with tooth defects along with periodontal disease, it is recognized domestically and abroad for its accumulated know-how through cooperation with periodontology and prosthetics.

### ▷ Department of Prosthodontics

**Faculty**

Professor / Park, Sang-Won
Professor / Lim, Hyun-Pil
Professor / Yun, Kwi-Dug
Associate Professor / Park, Chan
Assistant Professor / Jang, Woo-Hyung

**Research areas**

CAD-CAM digital dentistry
Esthetic ceramic restorative material
Implant surface treatment & bone material research

Prosthodontics is a field of clinical dentistry that aims to restore functional impairment and esthetics that occur when there is substantial loss due to dental caries and trauma, or when any number or all teeth are completely missing. It is a field that is very dentist-centric in nature regarding treatment and research. It includes Dental Bridges, Removable Partial Prosthodontics, Complete Denture Prosthodontics, Occlusion, Implantology, Geriatric Dentistry, and their respective clinical practice. The department offers 47 credits and a total of 140 hours of lecture and laboratory practice, which is approximately 29% of the total credits offered by the School of Dentistry. The department is committed to training outstanding dentists through its lectures and laboratory practice.

### ▷ Department of Periodontology

**Faculty**

Professor / Kim, Young-Joon
Professor / Kim, Ok-Su

**Research areas**

Genotyping in periodontal diseases patients
Surface characteristics and bioactivity of titanium surface
Relationship between the periodontal diseases and systemic diseases

The Periodontology speciality aims to train medical professionals who can accurately diagnose and treat periodontal and oral soft tissue diseases. The specialty currently offers technical education and treatment on calculus removal and root conditioning, periodontal valve surgery for progressed periodontal lesions, bone graft and tissue-guided regeneration, periodontal plastic surgery including mucogingival surgery, aesthetic periodontal surgery, and intraosseous dental implantation. Successful treatment results are obtained in complex patient cases through cooperative treatment with other clinical fields.

### ▷ Department of Conservative Dentistry

**Faculty**

Professor / Oh, Won-Man
Professor / Hwang, In-Nam
Professor / Hwang, Yun-Chan
Professor / Chang, Hoon-Sang
Associate Professor / Lee, Bin-Na

**Research areas**

Pulp-dentin regeneration
Color of composite resin
Treatment of pulp inflammation

The Conservative Dentistry speciality provides fillings to restore the function of teeth by repairing diseases occurring in the hard tissue of the teeth, and it provides esthetic restoration to restore esthetic defects caused by hard tissue diseases of the teeth. It deals with the field of endodontic therapy for the treatment of pulp and apical diseases. Conservative dentistry is a basic study of

dental clinical practice and is a required program that all dentists must acquire. We are proud of the goals we have achieved.

### ▷ Department of Oral Medicine

**Faculty**

Professor / Kim, Byung-Gook
Professor / Kim, Jae-Hyung
Assistant Professor / Im, Yeong-Gwan

**Research areas**

Orofacial Pain
Oral Mucosal Diseases
Temporomandibular Disorders

Oral Medicine is the field of clinical dentistry that treats various diseases occurring in the oral and maxillofacial area through medical treatment. Diseases covered in the Oral Medicine specialty include temporomandibular disorders, oral-facial pain, oral mucosal diseases, dry mouth, bad breath, taste disorders, oral movement disorders, snoring, and sleep apnea. The discipline also deals with the dental care of systemic patients and the dental application of lasers. Through courses in forensic medicine and in health and medical regulations, students will acquire knowledge and literacy as healthcare professionals.

### ▷ Department of Pediatric Dentistry

**Faculty**

Professor / Choi, Nam-Ki
Professor / Kim, Seon-Mi

**Research areas**

Restorative & Preventive Treatment
Treatment for Handicapped Children
Preventive & Interceptive Orthodontic Treatment

### ▷ Department of Oral and Maxillofacial Radiology

**Faculty**

Professor / Yoon, Suk-Ja
Professor / Lee, Jae-Seo

**Research areas**

3D Dental Imaging
Sialographic examination
Oral and Maxillofacial Diagnosis

Students will learn about (a) the discovery of the x-ray, its physical properties and interaction with materials and devices that generate and control x-rays, (b) the source and amount of natural radiation, and its effect on the living, (c) ways to induce desired radiographs that accurately show anatomical structures and pathological conditions not observed with the human eye by using x-rays, (d) special imagery and its characteristics, and (e) methods for reading radiographs and understanding the anatomical structures and diseases represented on radiographs for proper diagnosis.

### ▷ Department of Anesthesiology

**Faculty**

Assistant Professor / Jang, Eun-A

**Research areas**

Critical care medicine
Respiratory care
Pediatric anesthesia

Students will learn the basics of anesthesiology, the pharmacological properties and clinical applications of drugs used for anesthesia, fluid and electrolyte therapy, blood transfusion, and CPR to be able to discuss methods to relieve pain during patient treatment or surgery, to induce psychological stability, and prevent and cure complexities that can occur during patient treatment. In addition, the causes, symptoms, treatment, and prevention of diseases that can occur after anesthesia are discussed.