



GAZİANTEP ÜNİVERSİTESİ

DİŞ HEKİMLİĞİ FAKÜLTESİ

2018/2019 YILI DERS KATOLOGLARI/AKTS FORMU(İNGİLİZCE)

GAZİANTEP UNIVERSITY, FACULTY OF DENTISTRY, LESSONS AND CREDITS

Annual Lesson : A

Semester Lesson: S

European Credit Transfer System: ECTS

1. YEARS

L.N.	1. YEAR	Lesson Code	Semester	SEMESTER				Lesson Period	Lesson Credit	ECTS
				AUTUMN	AUTUMN	SPRING	SPRING			
				Theoric	Practice	Theoric	Practice			
1	Prosthetic Dentistry I (Theoretical)	DENT103	A	2	-	2	-	4	2	6
2	Prosthetic Dentistry I (Practice)	DENT105	A	-	6	-	6	12	3	18
3	Medical Biology and Genetics	DENT106	A	2	-	2	-	4	2	6
4	Organic Chemistry	DENT108	A	1	-	1	-	2	1	4
5	Dental Materials I	DENT111	S	1	-	-	-	1	1	2
6	Biostatistics	DENT113	S	1	1	-	-	2	2	2
7	Anatomy	DENT110	S	-	-	2	2	4	3	3
8	Biophysics	DENT109	A	2	-	2	-	4	2	5
9	Turkish Language I	TURK101	S	2	-	-	-	2	2	2
10	Turkish Language II	TURK102	S	-	-	2	-	2	2	2
11	Freshman English I	LENG101	S	4	-	-	-	4	4	5
12	Freshman English II	LENG102	S	-	-	4	-	4	4	5
13	Social Awareness Project I	TDP101	S	1	-	-	-	1	1	1
14	Social Awareness ProjectII	TDP102	S	-	-	1	2	3	2	2
15	Common Elective (Must be taken at least one of GOS lessons)	GOS***	S	1	1	-	-	2	-	1
16	General and Professional Ethics	GME100	S	-	-	2	-	2	2	2
<b>TOTAL</b>				<b>17</b>	<b>8</b>	<b>18</b>	<b>10</b>	<b>53</b>	<b>33</b>	<b>66</b>



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2. YEARS

L.N.	2. YEAR	Lesson Code	Semester	SEMESTER				Lesson Period	Lesson Credit	ECTS
				AUTUMN	AUTUMN	SPRING	SPRING			
				Theoric	Practice	Theoric	Practice			
1	General Anatomy	DENT204	A	2	2	2	2	8	3	6
2	Physiology	DENT205	A	3	2	3	2	10	4	8
3	Histology	DENT201	A	3	2	3	2	10	4	8
4	Prosthetic Dentistry (Practice)II	DENT207	A	-	6	-	6	12	4	14
5	Restorative Dentistry (Practice) I	DENT209	A	-	4	-	4	8	2	5
6	Prosthetic Dentistry (Theoretical) II	DENT211	A	2	-	2	-	4	2	4
7	Restorative Dentistry (Theoretical) I	DENT213	A	2	-	2	-	4	2	4
8	Biochemistry	DENT215	A	2	-	2	-	4	2	4
9	Microbiology	DENT202	A	3	-	3	-	6	2	4
10	Dental Materials II	DENT219	S	2	-	-	-	2	2	3
11	Atatürk's Principles and the History of the Turkish Renovation I	HIST201	S	2	-	-	-	2	2	2
12	Atatürk's Principles and the History of the Turkish Renovation II	HIST202	S	-	-	2	-	2	2	2
<b>TOTAL</b>				<b>21</b>	<b>16</b>	<b>19</b>	<b>16</b>	<b>72</b>	<b>31</b>	<b>64</b>



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3. YEARS

L.N.	3. YEAR	Lesson Code	Semester	SEMESTER				Lesson Period	Lesson Credit	ECTS
				AUTUMN Theoric	AUTUMN Practice	SPRING Theoric	SPRING Practice			
1	Oral Diagnosis-Radiology I	DENT307	A	2	-	2	-	4	2	4
2	Oral Maxillofacial Surgery I	DENT309	A	2	-	2	-	4	2	4
3	Restorative Dentistry II	DENT311	A	2	-	2	-	4	2	4
4	Endodontics I	DENT313	A	2	-	2	-	4	2	4
5	Prosthetic Dentistry III	DENT315	A	2	-	2	-	4	2	4
6	Dental Anesthesia	DENT317	A	1	-	1	-	2	1	2
7	Pedodontics I	DENT319	A	2	-	2	-	4	2	4
8	Ortodontics I	DENT321	A	2	-	2	-	4	2	4
9	Periodontology I	DENT323	A	2	-	2	-	4	2	4
10	Prosthetic Dentistry Practicelll	DENT301	S	-	6	-	-	6	3	8
11	Restorative Dentistry Practice II	DENT303	S	-	4	-	-	4	2	3
12	Endodontics Practice I	DENT305	S	-	4	-	-	4	2	3
13	General Pathology	DENT304	S	2	-	-	-	2	2	2
14	Pharmacology	DENT306	S	-	-	2	-	2	2	2
15	Activities Participation	İNF398	S	-	-	-	2	2	1	1
<b>TOTAL</b>				<b>19</b>	<b>14</b>	<b>19</b>	<b>2</b>	<b>54</b>	<b>29</b>	<b>53</b>

CLINICAL OBSERVATION

18	Prosthetic Dentistry	DENT331	S	-	-	-	2	2	1	1
19	Restorative Dentistry	DENT332	S	-	-	-	2	2	1	1
20	Endodontics	DENT333	S	-	-	-	2	2	1	1
21	Oral Maxillofacial Surgery	DENT334	S	-	-	-	2	2	1	1
22	Periodontology	DENT335	S	-	-	-	2	2	1	1



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23	Ortodontics	DENT336	S	-	-	-	2	2	1	1	
24	Pedodontics	DENT337	S	-	-	-	2	2	1	1	
25	Oral maxillofacial Radiology	DENT338	S	-	-	-	2	2	1	1	
				<b>TOTAL</b>	<b>19</b>	<b>16</b>	<b>19</b>	<b>16</b>	<b>16</b>	<b>8</b>	<b>8</b>
				<b>3. YEAR</b>	<b>19</b>	<b>16</b>	<b>19</b>	<b>16</b>	<b>70</b>	<b>40</b>	<b>61</b>
				<b>TOTAL</b>							

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L.N.	4. YEAR	Lesson Code	Semester	SEMESTER				Lesson Period	Lesson Credit	ECTS
				AUTUMN	AUTUMN	SPRING	SPRING			
				Theoric	Practice	Theoric	Practice			
1	Restorative Dentistry III	DENT401	A	1	-	1	-	2	1	1
2	Oral Maxillofacial Surgery II	DENT403	A	2	-	2	-	4	2	3
3	Endodontics II	DENT405	A	2	-	2	-	4	2	3
4	Prosthetic Dentistry IV	DENT407	A	2	-	2	-	4	2	3
5	Ortodontics II	DENT409	A	2	-	2	-	4	2	2
6	Periodontology II	DENT411	A	2	-	2	-	4	2	3
7	Oral Diagnosis-Radyology II	DENT413	A	2	-	2	-	4	2	2
8	Oral Diseases	DENT415	A	1	-	1	-	2	1	1
9	Pedodontics II	DENT417	A	2	-	2	-	4	2	2
10	Hematology/Internal Medicine	DENT419	S	1	-	-	-	1	1	1
11	General Surgery	DENT421	S	1	-	-	-	1	1	1
12	Dermatology	DENT406	S	-	-	1	-	1	1	1
13	General Anesthesia	DENT404	S	-	-	1	-	1	1	1
<b>TOTAL</b>				<b>18</b>	<b>-</b>	<b>18</b>	<b>-</b>	<b>36</b>	<b>20</b>	<b>24</b>

**4. YEARS**

	Clinical Practice Lesson	Lesson Code	Semester	Practice	Lesson Credit	ECTS
1	Prosthetic Dentistry	DENT423	A	38 Business Day	4	8
2	Restorative Dentistry	DENT433	A	19 Business Day	2	4
3	Endodontics	DENT443	A	19 Business Day	2	4
4	Oral Maxillofacial Surgery	DENT453	A	19 Business Day	2	4
5	Periodontology	DENT463	A	19 Business Day	2	4
6	Ortodontics	DENT473	A	19 Business Day	2	4
7	Pedodontics	DENT483	A	19 Business Day	2	4
8	Oral maxillofacial Radiology Inter	DENT493	A	19 Business Day	2	4
<b>TOTAL</b>				<b>171 Business Day</b>	<b>16</b>	<b>36</b>
<b>4. YEAR TOTAL</b>					<b>36</b>	<b>60</b>



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\* Clinics are taken during the academic year in accordance with the number of business day listed above. The total ECTS is evaluated over one year.



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5. SINIF

Lesson Code	Lesson	Lesson Credit	ECTS
DENT 500	Course Board	5	5

5. YEAR CLINICAL PRACTICE LESSON

	Lesson Code	5. YEAR CLINICAL PRACTICE LESSON	PRACTİCE	Lesson Credit	ECTS
1	DENT511	Prosthetic Dentistry	23 Business Day	4	8
2	DENT521	Restorative Dentistry	23 Business Day	4	8
3	DENT531	Endodontics	23 Business Day	4	8
4	DENT541	Oral Maxillofacial Surgery	23 Business Day	4	8
5	DENT551	Periodontology	23 Business Day	4	8
6	DENT561	Pedodontics	23 Business Day	4	8
7	DENT571	Multidisciplinary	23 Business Day	4	8
8	DENT581	Ortodontics	12 Business Day	2	4
9	DENT591	Oral maxillofacial Radiology	11 Business Day	2	4
<b>TOTAL</b>				<b>32</b>	<b>64</b>
<b>5. YEAR TOTAL</b>				<b>37</b>	<b>69</b>

	DENT 500 COURSE BOARD	WEEKLY COURSE HOUR	PERIOD OF EDUCATION (WEEK)
1	Community Oral and Dental Care	3	5
2	Emergency Medicine	3	5
3	Oral and Maxillofacial Surgery III	3	5
4	Ear Nose and Throat Surgery	2	5
5	Dental Deontology	2	5



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6	Dental Office Management and Ergonomy	2	5
7	Oro-maxillo-facial Surgery	3	5
8	Maxillofacial Prosthesis	3	5
9	Implantology	3	5
10	Forensic Medicine	2	5
11	Psychiatry	2	5
12	Ophthalmology	2	5

## LESSON CONTENTS

### **DENT 103 PROSTHETIC DENTISTRY I (2-0)2 ECTS:6**

Dental terminology, anatomy of permanent teeth, preparation in preclinic and parallel crown production knowledge with practical work, embryological development of teeth, dental tissues and deciduous dentition.

### **DENT 105 PROSTHETIC DENTISTRY PRACTICE I (0-6)3 ECTS:18**

Permanent tooth sculpture and modeling, jacket crown, veneer crown, porcelain crown.

### **DENT 106 MEDICAL BIOLOGY-GENETICS (2-0)2 ECTS:6**

Genome, molecular genetic analysis, genetic diseases and treatment of DNA, structure and function of chromatin, genetic information flow, genetic code and protein synthesis, genetic control, human genome organization, mutations and mutagens, basic principles of inheritance

### **DENT 108 ORGANIC CHEMISTRY (1-0)1 ECTS: 4**

Introduction of functional groups (alkanes, alkenes, alkenes, halogenated compounds, benzenes and other aromatic compounds, alcohols, ethers, aldehydes and ketones, carboxylic acids and derivatives, amines) in organic chemistry as well as carbohydrates, lipids, amino





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acids, proteins and nucleic acids, Nomenclature according to IUPAC system, physical properties and applications in health field, importance in stereochemistry and drug activity

**DENT 111 DENTAL MATERIALS (1-0)1 ECTS:2**

General properties of dental materials, dental stone, wax, metals, leveling and polishing, investing, casting, soldering.

**DENT 113 BIOSTATISTICS (1-1)2 ECTS: 2**

Introduction and basic concepts, regulation of data, measures of central tendency, measures of central probability, simple probability concepts, binomial poison distribution, normal distribution, sampling, estimation theory, chi square tests, hypothesis tests, regression and correlation, variance analysis.

**DENT 110 ANATOMY (2-2)3 ECTS:3**

Movement system; Bones, head bones (neurocranium, visceroranium, whole head skeleton) spine, thorax, upper and lower extremity bones. Joints; General information, jaw joint, trunk, upper and lower limb joints. Muscles; General information, head, neck, trunk upper and lower extremity muscles. Respiratory distress; Nose, pharynx, larynx, trachea, bronchus, lungs, pleura, mediastinum

**DENT 109 BIOPHYSICS (2-0)2 ECTS: 5**

Fundamentals of electromedical measurement and observation instruments and medical imaging methods, effects of radioactivity and radioactivity on the body. Homeostasis, body fluids, substance transport and bioelectric potentials, cell, muscle, peripheral nerve, autonomic nervous system, chewing, cardiovascular system physiology

**TURK 101 TURKISH LANGUAGE I (2-0) 2 ECTS: 2**



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World Language Groups, The place of Turkic languages among the world languages, Voice characteristics of Turkic language, Voice events in Turkic language, Type of written expression.

**TURK 102 TURKISH LANGUAGE II (2-0) 2 ECTS: 2**

The emphasis in Turkish, Structure in word, Knowledge of sentence, Forms and techniques of expression, Discourse disorders, Criticism, Self- criticism, Chatting, Trial, Essay and other writing types, Writing work.

**LENG 101 FRESHMAN ENGLISH I (4-0) 4 ECTS: 5**

Use of Tens, Basic grammar knowledge, reading, understanding, writing, speaking and listening, to improve grammar and vocabulary necessary for understanding skills.

**LENG 102 FRESHMAN ENGLISH II (4-0) 4 ECTS: 5**

Students are expected to read and understand texts at intermediate level, to write compositions by establishing longer sentences, and to teach the necessary skills to understand everyday speech.

**TDP 101 SOCIAL AWARENESS PROJECT I (1-0)1 ECTS:1**

To make strong linking between universities and social environment, to prepare the students that have responsibility and idea for the social- economic events of the community and to make projects for identifying and resolving the current problems in community. To attend the conferences and symposiums as a lecturer or an organizer.

**TDP 102 SOCIAL AWARENESS PROJECT II (1-2)2 ECTS:2**

To make strong linking between universities and social environment, to prepare the students that have responsibility and idea for the social- economic events of the community and to



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make projects for identifying and resolving the current problems in community. To be part of these fieldwork project. To link between education and fieldwork and work for developing the ability.

**GME 100 GENERAL AND PROFESSIONAL ETHICS (2-0)2 ECTS: 2**

Concepts of basic medicine and research ethics, basic components of good medicine, professional skills, professional values, physician-patient communication, physician and patient rights, ethical responsibilities of physician, ethics in dentistry, aesthetics and economics in dentistry, concept and scope of malpractice, Medical Deontology Constitution, Basic elements in physician's office, ethical committees, sanctions related to false dentistry, ethical cases.

**HIST 201 ATATURK'S PRINCIPLES AND THE HISTORY OF THE TURKISH RENOVATION I (2-0)2 ECTS: 2**

Basic concept, Before the Turkish Revolution, the ottoman state made the ıslatmayat, The preparation period of Turkish revolutions, turkish independence war.

**HIST 202 ATATURK'S PRINCIPLES AND THE HISTORY OF THE TURKISH RENOVATION II (2-0)2 ECTS: 2**

Revolutions of the Ataturk Period, Foreign Policy of the Republic of Turkey in the Ataturk Period, Atatürk Principles.

**DENT 204 GENERAL ANATOMY (2-2)3 ECTS: 6**

The circulatory system; Heart, arteries (head and neck, upper extremity, trunk and lower limb arteries), venules, lymphatic system. Digestive system; Oral cavity, cheek, gum, palate, teeth, tongue, salivary glands, throat, pharynx, oesophagus, stomach, small intestine, large intestine, liver, gall bladder, bile ducts, pancreas, peritoneum. Kidney, ureter, bladder, urethra, female and male genital organs, perineum. Nervous system; General information, medulla spinalis,



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mudulla oblangata, pons, cerebellum, cerebrum, membranes of brain and medulla spinalis, cerebrospinal fluid, vessels of the central nervous system, spinal nerves, cranial nerves, autonomic nervous system. Sense Organs; Eye and related formations, ear. Endocrine glands; Glandula pituitaria, glandula thyroidea, glandula parathyroidea, thymus, glandula suprarenalis, Topographic anatomy; General information, head and neck anatomical regions.

**DENT 205 PHYSIOLOGY (3-2)4 ECTS: 8**

Respiration, digestion, metabolism, kidney, endocrine glands, physiology of reproductive, sensory and central nervous and sensory systems. Homeostasis, body fluids, substance transport and bioelectric potentials, cell, muscle, peripheral nerve, autonomic nervous system, chewing, cardiovascular system physiology

**DENT 201 HISTOLOGY (3-2)4 ECTS: 8**

Microscope types, cell histology, tissues and general embryology. Skin, blood, teeth, circulatory system, face and respiratory system, oral and digestive system and related organs, liver, bile duct, pancreas, immun system, urinary system, endocrine system, nervous system developments and histology.

**DENT 207 PROSTHETIC DENTISTRY PRACTICE II (0-6)3 ECTS:14**

Dental preparations, dental model preparation, bridges and pontic types applied in different regions of the dental arch, porcelain substructure models, partial crowns, full denture tooth-modeling.

**DENT209 DENTAL DISEASES AND TREATMENT APPLICATION I (0-4) 2 ECTS: 5**

Presentation of instruments, Class I, II, V and VI amalgam cavity preparations and restorations in phantom teeth and human teeth, introduction and application of base materials, conservative and complex amalgam and composite restorations, inlay restoration application, finishing and polishing applications.



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### **DENT 211 PROSTHETIC DENTISTRY II (2-0)2 ECTS:4**

Fixed prosthesis: Purpose of prosthetic treatment, terminology, anamnesis, clinical examination, radiographic examination, model examination, oral fluids and soft tissue control, retraction and retraction methods, impression, impression tray, impression materials used in fixed dentures, impression techniques, And preparation methods, dental ceramics, metal - porcelain restorations (crown-bridge), preparation properties, pontic types and indications, metal substructure properties in metal supported porcelain restorations, cleaning metal substructure before applying aesthetic material, applying aesthetic material on metal substructure, Metal-porcelain connection, porcelain construction stages, dentin trial and glaze, patient delivery and cementation, partial veneer crowns, inlay, onlay, porcelain laminate veneers, tooth preparation, impression and study models, refractory die construction, Pier abutment tapered molar abutment, cantilever fixed restorations, occlusion-disclusion, centric relation- centric occlusion, TME anatomy, determinants of lower jaw movement, interferences, criteria of optimal functional occlusion, determinants of occlusal morphology, types of occlusion, articulation laws, Relationship recording methods, Articulation laws, articulators, centric relation recording methods.

Removable prosthesis: Definition of the full prosthesis, support tissues for the full prosthesis, classification of the support tissues by the pressure angle, muscles affecting the full prosthesis, anatomic structures affecting the edges of the full prosthesis, models used in full prosthesis, processing of custom tray for full prosthesis, Transfer, artificial teeth, selection of tooth, tooth arrangement, modeling, bonding, post-damp area and preliminary, determination and preparation, acrylic tip, leveling and polishing, base materials in complete dentures, possible problems and solutions after acrylic tamping, Prosthetic repair.

### **DENT 213 RESTORATIVE DENTISTRY I (2-0)2 ECTS:4**



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Dental embryology, histology and formation, terminology used in restorative treatment, Black principles and Black classification, tools used in restorative treatment, amalgam, cymens, composite and adhesion, protective applications.

**DENT 215 BIOCHEMISTRY (2-0)2 ECTS:4**

The biochemistry of acid, base, carbohydrate, lipid, amino acid, protein metabolites, peptides, enzymes, biological membranes, digestion and absorption, intermediary metabolisms, hormones, body fluids and saliva biochemistry, water and electrolyte balance, epithelium, Human genetics and dentistry, immunochemistry, biochemistry of bacteria and dental plaque metabolism, calcium, phosphate, apatite and fluorine containing compounds.

**DENT 202 MICROBIOLOGY (3-0)3 ECTS: 4**

Bacteria, immunology, mycology, parasitology, antimicrobial treatment of viruses, chronic and oral infections and oral infections, vaccine, serum.

**DENT 219 DENTAL MATERIALS II (2-0)2 ECTS:3**

Physical and chemical properties of materials used in dentistry, cavity substrate, amalgam, glass ionomers, composite resin based materials, cementation and impression materials, acrylic resin-based materials, metals, corrosion, capping materials, temporary filling materials, disinfectants and endodontic fillers.

**DENT 307 ORAL DIAGNOSIS-RADIOLOGY I (2-0)2 ECTS:4**

X-Ray formation and properties, biologic effects of radiation, processing X-Ray film, normal radiographic anatomy, intraoral and extraoral radiographic techniques, caries radiology, periodontal radiology, diagnosis of dental anomalies, taking of the patient's identity information, medical and dental history, anamnesis, clinical examination methods, extraoral



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and intraoral examination methods, the relationship between systemic diseases and dentistry, diagnostic aid methods, evaluation of pain, diagnosis and treatment planning.

**DENT 309 ORAL AND MAXILLOFACIAL SURGERY I (2-0)2 ECTS:4**

Basic rules of oral and maxillofacial surgeries, surgical examination and anamnesis, systemic disorders and surgical approaches, asepsis and antisepsis, sterilization, indication and contraindication of tooth extractions, surgical instruments of tooth extractions, procedures of surgical or nonsurgical tooth extractions, wound healing, alveolar osteitis and its treatment, possible complications of tooth extractions during procedure or after and their treatments, management of hemorrhage, prescription and commonly used drugs.

**DENT 311 RESTORATIVE DENTISTRY II (2-0)2 ECTS:4**

Infection control, isolation, non-carious lesions of teeth, dental caries diagnosis, prevention of caries in adults.

**DENT 313 ENDODONTICS I (2-0)2 ECTS:4**

Pulp tissue and related pathologies, periapical diseases, treatment of pulp and periapical diseases, pain and its management in endodontics, management of endodontic emergency

**DENT 315 PROSTHETIC DENTISTRY III (2-0)2 ECTS: 4**

Complete denture topics: Examination of the toothless patients and treatment plan, factors affecting retention in complete dentures, impression materials used in complete dentures, impression methods, Herbst tests, boxing method, registration in complete dentures, occlusion in complete dentures, long centric, delivery of prosthesis, patient education about care and use of prosthesis, control session, problems that can be encountered in patients moving prosthesis.

Removable partial denture topics: Definition of removable partial denture, indications and types of removable partial denture, classification of toothless arches, diagnosis and treatment



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planning, preparations before removable partial denture, impression materials and impression methods, casts used in removable partial denture, parts of removable partial denture, parallelometer, entry way, opposing arc stabilization, mesial arch stabilization, distal arch stabilization, preparations made for teeth for removable partial denture, metal framework laboratory steps, metal framework trial, occlusal recording methods, factors affecting the determination of occlusion in removable partial denture and occlusal alignment, delivery of prosthesis, tooth arranging, modeling, molding, patient education about prosthesis care and use, control sessions and problems that may be encountered in patients using removable denture, acrylic partial denture.

**Fixed partial denture topics:** Reasons for failure in fixed restorations, removal of fixed restorations, repair methods, full ceramic systems, construction stages of full ceramic restorations, cementation of full ceramic restorations, resin bonded fixed dentures, restoration of excessive material loss.

#### **DENT 317 DENTAL ANESTHESİA (1-0)1 ECTS:2**

Pain components, the innervations of jaws, exact mechanism of local anesthesia procedure, indication and contraindication of local anesthesia, agents of local anesthetics, vasoconstrictors, techniques of local anesthetics applying, possible complications of local anesthetics during procedure or after and their treatments, sedation and sedative agents.

#### **DENT 319 PEDIATRIC DENTISTRY I (2-0)2 ECTS:4**

Behavior management of pediatric patients, diagnosis and prevention of dental caries, preventive applications, restorative applications of dental caries in primary and young permanent dentition, anomalies of tooth formation and eruption, plaque control and tooth brushing, nutrition and diet in caries control, fluorid and caries control, topical fluorid application, fissure sealing, preventive resin restoration, dental materials, endodontic treatment in primary dentition.





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**DENT 321 ORTODONTCS I (2-0)2 ECTS:4**

Growth and development, orthodontic diagnosis, development of primary dentition , transition to mixed dentition ,and beginning of permanent dentition stage, cephalometric points and planes, cephalometric analysis ,Hycenance and Bolton analysis ,classification ,etiology and characteristic features of malocclusions, principles of orthodontic biomechanic .

application of force in the oral environment and the response of oral tissues ,resorption and anchorage control .

**DENT 323 PERIODONTOLOGY I (2-0)2 ECTS:4**

To teach the anatomical and histological structures of periodontal tissues, the difference of healthy and diseased periodontal tissues, primary and secondary etiological factors which play a role in the development of periodontal disease and the shift from health to disease. For this purpose, the main topic of the lecture is; Periodontal tissues, anatomy of periodontal tissues, histology, classification of periodontal diseases, physiology and histopathology of periodontal diseases, periodontium embryology; Dentogingival combination, etiology of plaque-related periodontal diseases, materia alba, pellicle, biofilm, microbial dental plaque and oral hygiene methods.

**DENT 301 PROSTHETIC DENTISTRY PRACTICE III (0-6)3 ECTS: 8**

Metal supported partial prosthesis construction (lower and upper), and top metal cores, tooth preparation for crown and fixed partial denture, post-core applications.

**DENT 303 RESTORATIVE TOOTH TREATMENT APPLICATION II (0-4)2 ECTS: 3**

Front and back composite resin, glass ionomer, amalgam and pinned restorations in phantom and pulled permanent teeth, and pulp coatings on permanent permanent teeth.

**DENT 305 ENDODONTICS PRECLINIC I (0-4)2 ECTS:3**



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cast preparation, rubber-dam application, access cavities of anterior and posterior teeth, extirpation, canal preparation, irrigation, canal obturation, taking radiographs, coronal restoration

**DENT 304 GENERAL PATHOLOGY (2-0)2 ECTS: 2**

Cell damage, necrosis, apoptosis, cellular growth and adaptation, intracellular accumulations, calcifications, hemodynamic disorders, acute- chronic inflammation, immunologic and genetic diseases, benign and malign neoplasms. Developmental disorders of the oral cavity, pathologies of infections, cystic lesions, tumors, immunological diseases, systemic diseases and connective bone tissue.

**DENT 306 PHARMACOLOGY (2-0)2 ECTS:2**

Drug-drug interactions, drug abuse and substance abuse, autonomic nervous system, respiratory system, gastrointestinal system, cardiovascular drugs, analgesic and antiinflammatory drugs, antimicrobial and chemotherapeutic drugs, central nervous system pharmacology, general anesthetics and endocrine system pharmacology, farmakovejilans.

**ACT 398 ACTIVITIES PARTICIPATION (0-2)1 ECTS:1**

The students who are studying at undergraduate level in our university, the cultural, scientific, sportive and artistic etc. to be realized in our university. Participation in events and keeping them at a higher level.

**DENT 331 PROSTHETIC DENTISTRY CLINICAL OBSERVATION (0-2)1 ECTS: 1**

Pre-clinical patient-physician-assisted personnel communication, clinical operating principles. Tooth preparation and impression on phantom heads

**DENT 332 RESTORATIVE DENTISTRY CLINICAL OBSERVATION (0-2)1 ECTS:1**

Preclinical patient-physician communication, principles of clinical practice on patients.



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**DENT 333 ENDODONTICS CLINIC OBSERVATION CLINICAL OBSERVATION  
(0-2)1 ECTS:1**

Patient-clinician interaction (preclinical observation), principals of clinical procedures, simple applications on patients (i.e.: rubber-dam, infiltration anesthesia)

**DENT 334 ORAL AND MAXILLOFACIAL SURGERY CLINICAL OBSERVATION  
(2-0)1 ECTS:1**

Patient-clinician communication before clinical examination, work flow principles of dental office, clinical practice on patient.

**DENT 335 PERIODONTOLOGY CLINICAL OBSERVATION (0-2)1 ECTS:1**

To teach physician poses in order to mimic the pre-clinical patient and intraoral environment, to demonstrate effective use of hand tools during patient treatment appointment, and to teach them directly on the ex-vivo model as preliminary preparation for classroom clinical practice lesson. In addition, it is planned that the notion of pre-clinic physician will be given to dentist candidates and clinical order will be presented.

**DENT 336 ORTHODONTICS CLINICAL OBSERVATION (0-2)1 ECTS: 1**

Pre-clinical patient-physician communication, clinic functioning principles, patient applications.

**DENT 337 PEDIATRIC DENTISTRY CLINICAL OBSERVATION (0-2)1 AKTS:1**

Non-pharmalogical behavior management, principles of mechanism of pediatric clinics, applications on patients, compomer restoration application, fissure sealent application.

**DENT 338 ORAL MAXILLOFACIAL RADIOLOGY CLINICAL OBSERVATION (0-2)1 AKTS:1**



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Preclinical patient-physician communication, principles of clinical process, clinical and radiological observation, practice on patients.

**DENT 401 RESTORATIVE DENTISTRY III (1-0)1 ECTS: 1**

Dental coloring and bleaching techniques, Oral odor, Diagnosis and treatment methods, Tunnel restorations, Remineralization agents, Caries removal methods, Polymerization in dentistry. Light Sources, Geriatric Dentistry and Root Caries, restoration of duct treated teeth, tooth colorings and treatments, dentin hypersensitivity and treatments. Fiber reinforced composites, Classification of new cavities and minimally invasive dentistry, Rehabilitation reasons of restorations, Cavity disinfectants. Dental Anomalies, Toothbrushes and their alloys, Biocompatibility of restorative materials, Restorative material selection, Tooth abrasion, Composite and ceramic Laminate

**DENT 403 ORAL AND MAXILLOFACIAL SURGERY II (2-0)2 ECTS:3**

Surgical set and protocol, incision and flap techniques, suture techniques, impacted teeth and impacted tooth extraction, root resection, biopsy methods, sinus diseases, oroantral sinus fistula and its treatment, treatment of jaw cysts, jaw osteomyelitis, maxillofacial trauma, temporomandibula joint diseases and treatments, preprosthetic surgery, salivary gland diseases, neuralgia and facial paralysis, pain and management

**DENT 405 ENDODONTICS II (2-0)2 AKTS:3**

Endodontic treatment plan, success and failure reasons in endodontics, non-vital bleaching techniques, endodontics-periodontology relation, endodontic surgery, geriatric endodontics

**DENT 407 PROSTHETIC DENTISTRY IV (2-0)2 ECTS:3**

Intervention and treatment planning in geriatric patients, cross-infection, color and aesthetics, phonation and aesthetics, patient-physician and physician-laboratory associations precision



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attachment denture and construction stages, geriatric and geriatric medicine, geriatric functions and related diseases, geriatric illness approach , Conservative dental treatment and endodontic treatment approaches in geriatric patients, difficulties and solutions in dental treatment in geriatric and handicapped patients, preprosthetic surgery, provision of stabilization in full prosthesis, articulation, linear occlusion, lingual occlusion, passive area, immediate prosthesis, duplicate prosthesis, overdenture prosthesis , Systemic and local causes of oral lesions, prosthetic dentistry syndromes, tissue regulators, soft lining materials, prosthetic adhesives, prosthetic cleaners and cleaning methods, resin cements,, CAD / CAM clinical and laboratory applications, temporomandibular joint, neuromuscular physiology of the stomatognathic system, functional activities of the stomatognathic system, chewing, speech, swallowing, respiration. Temporomandibular joint and anatomy, ligaments, chewing muscles, etiology of temporomandibular joint diseases, diagnostic methods, classification, treatment. Materials used in making occlusal splints and occlusal splints.

#### **DENT 409 ORTHODONTIC II (2-0)2 ECTS:2**

preventive orthodontic ,removable ,fixed and functional appliances , normal occlusion criteria, extraoral appliances ,types of malocclusions ,approaches used in orthodontic treatment,TMJ and orthodontic treatment. Cleft lip and palate ,rapid palatal expander and its retention , treatment modalities of impacted teeth ,transpositionand missed lateral incisors ,adult orthodontic treatment ,retention and relapse ,complications associated with orthodontic treatment and oral hygiene protocols

#### **DENT 411 PERIODONTOLOGY II (2-0)2 ECTS:3**

Periodontal approach in patients with systemic problem, periodontal treatment in elderly patients, treatment and splint for occlusal trauma, endodontic periodontology relation, prosthodontic periodontology, periodontal treatment in elderly patients with the teaching of the properties of periodontal therapy, the necessity of non-surgical or surgical treatment in periodontal problems, the relationship between different dentistry disciplines and



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periodontology, relationship; Orthodontics and periodontology relations. In this context, students will learn periodontal diagnostic methods, know the properties of instruments used in periodontal treatment, have knowledge about periodontal treatment methods and prognoses, learn the principles of multidisciplinary treatment planning.

#### **DENT 413 ORAL DIAGNOSIS-RADIOLOGY II (2-0)2 ECTS:2**

Inflammatory lesions of the jaws, cysts of the jaws, benign and malignant tumors of the jaws, digital imaging, diagnostic imaging of TMJ diseases, maxillary sinus diseases and imaging techniques, salivary gland diseases and imaging techniques, advanced imaging methods, examination of pathologies seen in oral cavity and oral mucosa and evaluation of the effects of radiotherapy on oral cavity.

#### **DENT 415 ORAL DİSEASE (1-0)1 ECTS:1**

Odontogenic and non odontogenic cysts-tumors invading hard and soft tissues of the jaws, premalign and malign oral lesions, benign and malign odontogenic tumors, salivary gland diseases and bone pathologies, hereditary diseases, drug reactions, oral and peripheral tissue pigmentations, oral mucosal lesions, oral ulcerative lesions, viral infections and its oral findings.

#### **DENT 417 PEDIATRIC DENTISTRY (2-0)2 ECTS:2**

Pharmacological management of pediatric dentistry, oral surgery in pediatric dentistry, pulp therapy in primary and young permanent dentitions, orofacial trauma in pediatric dentistry,space maintains and pediatric prosthesis, treatment plans of cases,pharmalogical management of pain and anxiety, local anesthesia for children, periodontal disease in children, the paedontic/orthodontic interface, medical disability, childhood impairment and disability.

#### **DENT 419 HEMATOLOGY/INTERNAL MEDICINE (1-0)1 ECTS:1**



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Anemia, bleeding diathesis, peptic ulcer disease, viral hepatitis, AIDS, high blood pressure, heart diseases and allergies, Alzheimer's disease and rheumatic diseases.

**DENT 421 GENERAL SURGERY (1-0)1 ECTS: 1**

Surgical infections and antibiotic prophylaxis, oral and parenteral nutrition, wound healing, suture materials, fluid electrolyte balance, hemostasis, transfusion, shock therapy, trauma treatment, burn treatment, traumatic metabolic and endocrinal response

**DENT 406 DERMATOLOGY (1-0)1 ECTS: 1**

Deep structure and elemental lesions, Behcet's disease and differential diagnosis with mouth aftes, white and red lesions of oral mucosa, oral drug reactions, candidiasis, oral mucosal viral diseases, syphilis, autoimmune bullous diseases, good and malignant tumors of oral mucosa, oral lichen planus.

**DENT 404 GENERAL ANESTHESIA (1-0)1 ECTS: 1**

Complications of general anesthesia, general anesthesia, endotracheal intubation, endotracheal intubation, intravenous anesthetics, cardiac arrest and cardiopulmonary resuscitation, basic principles in monitoring, oxygen and carbon dioxide, preanesthesia visit, premedication, muscle relaxants, dental general anesthesia, local anesthesia, effects.

**DENT 423 PROSTHETIC DENTISTRY CLINICAL PRACTICE LESSON (0-40)4 ECTS:8**

At the beginning of the academic year, full prosthesis, metal assisted partial prosthesis, acrylic prosthesis with partitions, fixed part prosthesis applications, kron-bridge dismantling, provisional restoration construction, feeding, prosthesis repair, tooth removal.

**DENT 433 RESTORATIVE DENTISTRY CLINICAL PRACTICE LESSON (0-20)2 ECTS:4**



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Amalgam, composite, protective resin restorations determined at the beginning of the academic year.

**DENT 443 ENDODONTICS CLINICAL PRACTICE LESSON (0-20)2 ECTS:4**

Inspection, pulp capping, root canal treatment, taking radiographs, case presentation

**DENT 453 ORAL AND MAXILLOFACIAL SURGERY CLINICAL PRACTICE LESSON (0-20)2 ECTS:4**

Anamnesis obtained from patient history, local anesthesia application procedures, tooth extraction, prescription and post-operative recommendations, consultation protocols, monitoring of minor surgical applications.

**DENT 463 PERIODONTOLOGY CLINICAL PRACTICE LESSON (0-20)2 ECTS:4**

As learned in the previously lessons, to perform periodontal examination by surveillance on patients, to make periodontal treatment planning in this examination light, and then to apply one of the appropriate treatment modalities (tooth surface cleaning, root surface cleaning) to the patient. In addition, the students will be informed about how the patients should be informed about the periodontal surgery after and before.

**DENT 473 ORTHODONTICS CLINICAL PRACTICE LESSON (0-20)2 ECTS:4**

Hays-Nance and Bolton analyzes, lateral cephalometric analysis, adams clamp, drop crochet, vestibule arc, labiolingual spring, mesiodistal spring, Hawley appliance, blood retractor.

**DENT 483 PEDIATRIC DENTISTRY CLINICAL PRACTICE LESSON (0-20)2 ECTS:4**

Examination, behavior management, fissure sealant, preventive resin restoration, topical fluoride application, plaque control and tooth brushing, minor dental filling, instruction of patient and parents, pulpotomy and root canal treatment in primary dentition, root canal treatment in permanent incisor.





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**DENT 493 ORAL MAXILLOFACIAL RADIOLOGY CLINICAL PRACTICE  
LESSON (0-20)2 ECTS:4**

The patient's examination, patient's history, anamnesis, intraoral and extraoral examination, diagnostic aid methods, diagnosis and treatment planning, periapical, bisector, bitewing, occlusal, extraoral film techniques, processing X-Ray film, film evaluation, recognition of oral and maxillofacial region pathologies and application of imaging modalities.

	DENT 500 COURSE BOARD	WEEKLY COURSE HOUR	PERIOD OF EDUCATION (WEEK)
1	Community Oral and Dental Care	3	5
2	Emergency Medicine	3	5
3	Oral and Maxillofacial Surgery III	3	5
4	Ear Nose and Throat Surgery	2	5
5	Dental Deontology	2	5
6	Dental Office Management and Ergonomy	2	5
7	Oro-maxillo-facial Surgery	3	5
8	Maxillofacial Prosthesis	3	5
9	İmplantology	3	5
10	Forensic Medicine	2	5
11	Psychiatyr	2	5
12	Ophtalmology	2	5

**DENT 500 COURSE BOARD (30-0)5 ECTS:5**

**LECTURES INCLUDED IN COURSE BOARD**

**COMMUNITY ORAL DENTAL HEALTH**



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Terms of community dental health, service content, methods of applying dmf/DMF, the principles of atraumatic resin apply, school programs, epidemiology of adult caries and preventive care programs, prevention and epidemiology of periodontal disease, information about geriatric healthy programs

### **FIRST AID AND EMERGENCY TREATMENT**

Emergency diagnosis, treatment, basic and advanced life support and life saving methods in cases such as cardiac arrest, respiratory arrest, drowning, burns, fainting, allergy anaphylaxis and poisoning.

### **ORAL AND MAXILLOFACIAL SURGERY III**

Soft and hard tissue surgery, head and neck infections and their treatments, cleft lip and palate, graft materials, distraction osteogenesis, temporomandibular joint diseases and their treatments, sleep apnea, soft tissue reconstructions

### **EAR, NOSE AND THROAT**

Deep neck infections and masses, oral cavity premalign and malignant lesions, paranasal sinus infections and tumors, maxillofacial trauma.

### **DEONTOLOGY IN DENTISTRY**

Dentists education and ethics, academic ethics, malpractice, autonomy and informed consent form, patients physicians, physician-assistant staff relations, trust and confidentiality obligations, fair approach.

### **CLINICAL ADMINISTRATION AND ERGONOMICS**

The definition of ergonomics in dental ergonomic, dental purpose and responsibilities, the tools used in surgery, four-handed dentistry, work organization, ergonomic principles, and actions to take office opening, occupational diseases, surgery planning, physician-laboratory



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relationship. Primary schools and MCH / FP (Maternal and Child Health / Family Planning center) is implementation of the programs for the community; DMF / DMF detection, preparation of topical fluoride mouthwash, oral hygiene education (students, teachers, parents), ART application, education of mothers or mothers.

### **ORO-MAXILLO-FACIAL SURGERY**

Evaluation of the patient with maxillofacial trauma, diagnosis and treatment principles in maxillofacial fractures, orthognathic surgery principles

### **JAW-FASIAL PROSTHESIS**

Classification of jaw-face prosthesis, impression, important concepts for jaw-face prosthesis, planning in jaw face prosthesis, upper jaw defects and prosthetic treatment, soft palate defects, prosthetic treatment in patients with cleft lip and palate defect, classification and treatment options of patients undergoing mandibular resection, prosthetic treatment following partial and total tongue resection, prosthetic treatment in patients with sleep disorders, radiotherapy prosthetics, types, radiation-positioning stents, fasial prostheses, materials used in facial prostheses, implant supported jaw-fasial prosthesis, ectodermal dysplasia and prosthetic treatment.

### **DENTAL IMPLANTOLOGY**

In the dental implant treatment of complete or partly edentulous jaws, prosthetics, surgical and periodontal diagnosis and treatment planning, radiographic evaluations, implant and osseointegration concepts, implant materials, implant types, implant supported prosthesis indications, clinical examinations of patients before implant treatments, different treatment options for maxillar and mandibular dental planning biomechanical principles, occlusion, impressions methods, step by step implant supported prosthesis, patient education, follow-up sessions, loading protocols of dental implants.

### **FORENSIC MEDICINE**



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Forensic medicine applications in Turkey and in the world, duties of the dentist in the current judicial system, expertise, child abuse and sexual offenses, definition and causes of injuries (blunt body, firearm.vd), physiological findings of death, dentists' The legal responsibilities of the physician and the differentiation of malpractice-complications.

### **PSYCHIATRY / NEUROLOGY**

Cerebrovascular diseases, myasthenia gravis, trigeminal neuralgia, epilepsy, migraine and central nervous system infections, behavioral sciences and psychiatry in dentistry, mood disorders and psychiatric disorders, anxiety, somatoform disorders, eating disorders and oral health care, cognitive disorders, drug treatments.

### **OPHTALMOTOLOGY**

Systemic diseases and eye contact, conjunctiva and valve diseases, childhood eye diseases, corneal diseases, uveitis, glaucoma, optic nerve and retina diseases.

## **5. YEAR CLINICAL PRACTICE LESSONS**

### **DENT 511 PROSTHETIC DENTISTRY (0-40)4 ECTS: 8**

At the beginning of the academic year, complete prosthesis, metal supported partial prosthesis, acrylic partial prosthesis, fixed partial prosthesis applications, crown-bridge dismantling, provisional restoration construction, lining, prosthesis repair, tooth addition.

### **DENT 521 RESTORATIVE DENTISTRY (0-40)4 ECTS:8**

Amalgam and composite restorations, endodontic treatment and restoration of teeth, restorations protector, rubber-dam application.

### **DENT 531 ENDODONTICS (0-40)4 ECTS:8**



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Inspection, pulp capping, root canal treatment (particularly posterior teeth), taking radiographs, rubber-dam application, case presentation

**DENT 541 ORAL AND MAXILLOFACIAL SURGERY (0-40)4 ECTS:8**

Tooth extraction, complicated tooth extraction, incision and suturing procedures, assisting of oral surgical procedures

**DENT 551 PERIODONTOLOGY (0-40)4 ECTS:8**

This internship is aimed that the periodontal examination of the patient in a competent manner, the periodontal treatment planning in the examination light and the application of the appropriate treatment modalities (tooth surface cleaning, root surface cleaning) afterwards

**DENT 561 PEDIATRIC DENTISTRY (0-40)4 ECTS:8**

Examination, fissure sealent, preventive resin restoration, composite and compomere restorations, instruction of patient and parents, pulp therapy of primary and young permanent dentitions, space maintains, stainless steel crowns applications, , apexification of immature permanent molars, partial pulpatomy in traumatized immature permanent incisor.

**DENT 571 MULTIDISCIPLINARY (0-40) 4 ECTS: 8**

Diagnosis, evaluation and proper use of dental and pulpal pain in endodontic and restorative treatments.

**DENT 581 ORTHODONTICS (0-40) 2 ECTS: 4**

Students diagnose and treat patients from start to finish within the practice environment. Orthodontic patient examination, anamnesis, form filling, measurement taking, model preparation, construction of orthodontic mobile appliances and adaptation to patient, case preparation and discussion, seminar presentation.



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**DENT 591 ORAL MAXILLOFACIAL RADIOLOGY (0-40)2 ECTS:4**

Taking of the patient's identity information, medical and dental history, anamnesis, clinical examination methods, extraoral and intraoral examination methods, the relationship between systemic diseases and dentistry, diagnostic aid methods, evaluation of pain, diagnosis and treatment planning. Examination of pathologies seen in oral cavity and oral mucosa and recognition of oral and maxillofacial region pathologies and application of imaging modalities.