

**T.C.**

**LOKMAN HEKIM UNIVERSITY**

**FACULTY OF DENTISTRY**

**PHASE – III 2024 – 2025**

**EDUCATION TEACHING GUIDE**

# T.C.

**LOKMAN HEKIM UNIVERSITY FACULTY OF DENTISTRY**

**PHASE III COURSES and ECTS**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CODE** | **COMPULSORY COURSES** | **T** | **U** | **ECTS** | **Course Status** | **Course type** |
|  | **Infectious Diseases** | *56* | *0* | 6 | ANNUAL | Committee |
|  | **Systemic Diseases** | *58* | *0* | 5 | ANNUAL | Committee |
|  | **Craniomaxillofacial Pain** | *30* | *0* | 3 | ANNUAL | Committee |
|  | **Craniomaxillofacial Trauma** | *12* | *0* | 2 | ANNUAL | Committee |
|  | SOCIAL SCIENCES IN DENTISTRY | *1* | *0* | 1 | FALL | Non-Committee Professional Compulsory Course |
|  | COMMUNICATION IN DENTISTRY | *1* | *0* | 1 | SPRING | Non-Committee Professional Compulsory Course |
|  | PROSTHETIC DENTISTRY | 2 | 4 | 6 | ANNUAL | Non-Committee Professional Compulsory Course |
|  | RESTORATIVE DENTISTRY | *1* | 2 | 3 | ANNUAL | Non-Committee Professional Compulsory Course |
|  | ENDODONTICS | 2 | 2 | 4 | ANNUAL | Non-Committee Professional Compulsory Course |
|  | ORAL AND MAXILLOFACIAL SURGERY | 2 | *0* | 3 | ANNUAL | Non-Committee Professional Compulsory Course |
|  | ORAL AND MAXILLOFACIAL RADIOLOGY | 2 | *0* | 3 | ANNUAL | Non-Committee Professional Compulsory Course |
|  | PERIODONTOLOGY | 2 | *0* | 2 | ANNUAL | Non-Committee Professional Compulsory Course |
|  | PEDIATRIC DENTISTRY | *1* | *0* | 2 | ANNUAL | Non-Committee Professional Compulsory Course |
|  | ORTHODONTICS | 2 | 2 | 4 | ANNUAL | Non-Committee Professional Compulsory Course |
|  | **COMPULSORY COURSES Total ECTS** | | | 45 | | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Code** | **ELECTIVE COURSES** | **T** | **P** | **ECTS** |  |  |
|  | JAW MOVEMENTS AND DENTAL OCCLUSION | 1 | 0 | 3 | FALL | Elective |
|  | DENTISTRY IN SPORTS INJURIES | 1 | 0 | 3 | SPRING | Elective |
| **ELECTIVE COURSES Total ECTS** | | | | | *6* | |

PHASE III OBJECTIVES AND LEARNING OUTCOMES

**Objective:**

In Phase III of the dental education program, the aim is to provide fundamental medical courses along with introductory clinical sciences. During this semester, dental students will take courses in infectious diseases, systemic diseases, and craniomaxillofacial trauma and pain. By the end of these courses, Phase III students will learn the relationships between systemic diseases and oral conditions, and they will understand the management and treatment approaches for maxillofacial pain and trauma.

**Educational Objectives:**

Phase III students, at the end of the course blocks in Infectious Diseases, Systemic Diseases, and Craniomaxillofacial Trauma and Pain, Social Sciences in Dentistry, and Communication Skills in Dentistry;

1. Students will learn the definition of infection, infection agents, and chemotherapeutics used in infection, as well as infection control in dentistry.
2. Students will learn to identify the oral manifestations of systemic diseases and the complications related to systemic diseases during dental treatments.
3. Students will gain knowledge about pain physiology and anesthetics, and explain the diagnosis and treatment process from a dental perspective.
4. Students will gain knowledge about craniomaxillofacial trauma, identify developing infections, and learn the necessary surgical and medical treatment techniques.
5. Students will gain knowledge about professional ethics and develop a sociological perspective.
6. Students will acquire knowledge about the role and application of human psychology and health communication in the profession.

**INFECTIOUS DISEASES COURSE BLOCK**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL COURSE DURATION (h)** |
| *-* Pharmacology | 16 | 0 | 16 |
| *-* Otolaryngology | 1 | 0 | 1 |
| *-* Neurosurgery | 1 | 0 | 1 |
| *-* Microbiology | 23 | 0 | 23 |
| - Pathology | 6 | 0 | 6 |
| *-* Infectious Diseases | 2 | 0 | 2 |
| *-* Dermatology | 3 | 0 | 2 |
| **TOTAL** | **52** | **0** | **52** |

**AIMS AND LEARNING OBJECTIVES OF THE COMMITTEE**

**Objective:**

## The purpose of this course is to teach the definition of infection, infection agents, chemotherapeutics used in the management of infections, and infection control in dentistry.

**Learning Objectives:**

1. Defines infection.
2. Provides information about infection agents
3. Explains the importance of infection and prevention methods in dentistry
4. Gains knowledge about prescription writing in dentistry.
5. **Acquires knowledge about rational antibiotic use in dentistry.**

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **PHARMACOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Basic Principles of Antibiotic Use | Theoric | 4 |
| Antifungal Drugs | Theoric | 2 |
| Antiviral Drugs | Theoric | 2 |
| Otolaryngology Drugs | Theoric | 2 |
| Local and Oral Pharmacotherapeutics Used in Dentistry | Theoric | 2 |
| Rational Drug Use and Ways to Keep Up-to-Date with Drug Information | Theoric | 1 |
| Prescription Writing | Theoric | 1 |
| **OTOLARYNGOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Oral Cavity and Sinus Infections, and Rhinosinusitis | Theoric | 1 |

|  |  |  |
| --- | --- | --- |
| **NEUROSURGERY** | | |
| **Topic** | **Type** | **Time** |
| Neurosurgery and Infection | Theoric | 1 |
| **MICROBIOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Gram-Positive and Gram-Negative Cocci | Theoric | 4 |
| Gram positive sporeless rods | Theoric | 1 |
| Mycobacteria | Theoric | 1 |
| Gram-negative rods (Enteric bacteria, vibrionaceae, coccobacilli, non-fermentatives) | Theoric | 4 |
| Anaerobic bacteria (Clostridiums, peptostreptococci, actinomycetes, gr(-) anaerobic bacilli) | Theoric | 2 |
| DNA Viruses | Theoric | 2 |
| RNA Viruses | Theoric | 2 |
| Yeasts | Theoric | 1 |
| Molds | Theoric | 1 |
| Dimorphic Fungi | Theoric | 1 |
| Protozoa | Theoric | 2 |
| Helmints | Theoric | 1 |
| Sterilization, disinfection and antisepsis | Theoric | 1 |
| **PATHOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Acute İnflammation | Theoric | 2 |
| Infectious Agents, İnflammatory Responses İn İnfection | Theoric | 2 |
| Chronic İnflammation | Theoric | 1 |
| Hemodynamic Disorders | Theoric | 1 |
| **INFECTIOUS DISEASES** | | |
| **Topic** | **Type** | **Time** |
| HIV and Hepatitis Viruses | Theoric | 2 |
| **DERMATOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Bacterial İnfections | Theoric | 1 |
| Viral İnfections | Theoric | 1 |
| Fungal And Parasitic İnfections | Theoric | 1 |

**SYSTEMIC DISEASES COURSE COMMITTEE**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC COURSE DURATION (h)** | **PRACTICAL** **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| - Pharmacology | 26 | 0 | 26 |
| - Dermatology | 2 | 0 | 2 |
| - Pediatrics | 2 | 0 | 2 |
| - Ophthalmology | 1 | 0 | 1 |
| *-* Pathology | 13 | 0 | 13 |
| *-* Gastroenterology | 1 | 0 | 1 |
| *-* Endocrinology | 1 | 0 | 1 |
| *-* Pulmonology | 2 | 0 | 2 |
| *-* Hematology | 4 | 0 | 4 |
| *-* Cardiology | 1 | 0 | 1 |
| *-* Nephrology | 1 | 0 | 1 |
| *-* Rheumatology | 1 | 0 | 1 |
| *-* Neurology | 1 | 0 | 1 |
| **Total** | **56** | **0** | **56** |

**AIMS AND LEARNING OBJECTIVES OF THE COMMITTEE**

**Objective:**

The purpose of this course is to define the oral manifestations of systemic diseases and to learn about complications related to systemic diseases during dental treatment.

**Learning Objectives:**

1. Gains general knowledge about clinical medical sciences.
2. Recognizes systemic diseases they might encounter and their oral manifestations
3. Applies examination techniques according to various branches of dentistry during patient examination.
4. Directs patients to the appropriate specialist for accurate diagnosis and treatment planning based on fundamental knowledge.
5. Identifies situations requiring prophylaxis in children and adults, takes preventive measures, and refers complex treatments to the relevant specialist.

**TOPICS**

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| --- | --- | --- |
| **PHARMACOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Drugs used in cardiovascular system diseases | Theoric | 4 |
| Drugs used in respiratory system diseases | Theoric | 2 |
| Drugs used in gastrointestinal system diseases | Theoric | 2 |
| Drugs that affect saliva secretion | Theoric | 1 |
| Drugs used in cancer treatment | Theoric | 2 |
| Drugs used in endocrine system diseases | Theoric | 4 |
| Medicines used to treat diabetes | Theoric | 2 |
| Steroids | Theoric | 1 |
| Introduction to the autonomic nervous system | Theoric | 2 |
| Drugs acting on the adrenergic and cholinergic systems | Theoric | 4 |
| Medicines used in eye diseases | Theoric | 1 |
| The importance of vitamins and minerals in dentistry | Theoric | 1 |
| **DERMATOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Urticaria, angioedema and drug reactions | Theoric | 1 |
| Systemic diseases with oral symptoms and collagen tissue diseases | Theoric | 1 |
| **PEDIATRICS** | | |
| **Topic** | **Type** | **Time** |
| Children and systemic diseases | Theoric | 2 |

|  |  |  |
| --- | --- | --- |
| **OPHTHALMOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Eye diseases | Theoric | 1 |
| **PATHOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Immune system diseases | Theoric | 2 |
| Cardiovascular diseases | Theoric | 2 |
| Blood and lymphoid system diseases | Theoric | 2 |
| Gastrointestinal System Diseases | Theoric | 2 |
| Bone and Soft Tissue Diseases | Theoric | 2 |
| Endocrine System Diseases | Theoric | 1 |
| Skin, Muscle, and Peripheral Nerve Pathology | Theoric | 2 |

|  |  |  |
| --- | --- | --- |
| **GASTROENTEROLOJİ** | | |
| **Konu** | **Türü** | **Süresi** |
| Peptik ülser ve gastrit Hepatit, siroz ve karaciğer transplantasyonu | Teorik | 1 |

|  |  |  |
| --- | --- | --- |
| **HEMATOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Anemia | Theoric | 1 |
| Bleeding and clotting disorders | Theoric | 1 |
| Blood products and blood transfusion | Theoric | 1 |
| Leukemia and multiple myeloma | Theoric | 1 |

|  |  |  |
| --- | --- | --- |
| **CARDIOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Coronary artery diseases, Hypertension and heart failure | Theoric | 1 |

|  |  |  |
| --- | --- | --- |
| **NEPHROLOGY** | | |
| **Topic** | **Type** | **Time** |
| Renal parenchymal tissue diseases and hypertension, Chronic renal failure and kidney transplantation | Theoric | 1 |

|  |  |  |
| --- | --- | --- |
| **RHEUMATOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Osteoarthritis, rheumatoid arthritis, SLE, scleroderma and Sjögren's syndrome | Theoric | 1 |

|  |  |  |
| --- | --- | --- |
| **NEUROLOGY** | | |
| **Topic** | **Type** | **Time** |
| Multiple sclerosis, Parkinson's, Mystenia gravis disease, Epilepsy and cerebrovascular diseases | Theoric | 1 |

|  |  |  |
| --- | --- | --- |
| **GASTROENTEROLOGY** | | |
| **Topic** | **Type** | **Time** |
| Peptic ulcer and gastritis Hepatitis, cirrhosis and liver transplantation |  | 1 |
| **ENDOCRINE DISEASES** | | |
| **Topic** | **Type** | **Time** |
| Cortisol treatment, Cushing's and Addison's diseases, Thyroid diseases, diabetes, hyperlipidemia | Theoric | 1 |
| **PULMONOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Lower and upper respiratory tract diseases | Theoric | **2** |

# CRANIOMAXILLOFACIAL PAIN COURSE COMMITTEE

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-* Physiology | 2 | 0 | 2 |
| *-* Anesthesiology | 2 | 0 | 2 |
| *-* Pharmacology | 12 | 0 | 12 |
| *-* Neurosurgery | 1 | 0 | 1 |
| *-* Neurology | 13 | 0 | 13 |
| **Total** | **30** | **0** | **30** |

**AIMS AND LEARNING OBJECTIVES OF THE COMMITTEE**

**Objectives:**

The purpose of this course is to provide knowledge on pain physiology and anesthetics, and to explore the diagnostic and therapeutic processes from a dental perspective.

**Learning Objectives:**

1. Explains the mechanisms of pain formation.
2. Lists medications affecting the central nervous system.
3. Gains knowledge about commonly used drugs in dentistry (such as local anesthetics, analgesics, and anti-inflammatory medications) and their interactions.
4. Recognizes orofacial pains and lists treatment options.
5. Acquires knowledge about rational drug use

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **PHYSIOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Pain Physiology | Theoric | 2 |
| **ANESTHESIOLOGY** | | |
| **Topic** | **Type** | **Time** |
| General Anesthesia | Theoric | 2 |
| **PHARMACOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Nonsteroidal Anti-İnflammatory And Analgesic Drugs | Theoric | 2 |
| Opioid Analgesics | Theoric | 2 |
| Preanesthetic Medication | Theoric | 1 |
| General Anesthetics | Theoric | 2 |
| Local Anesthetics | Theoric | 2 |
| Substance Addiction And Drug Abuse | Theoric | 1 |
| Muscle Relaxants | Theoric | 2 |
| **NEUROSURGY** |  |  |
| **Topic** | **Type** | **Time** |
| Neurosurgical Approaches To Pain | Theoric | 1 |

|  |  |  |
| --- | --- | --- |
| **NEUROLOGY** | | |
| **Topic** | **Type** | **Time** |
| Craniofacial Pain | Theoric | 1 |
| **DENTAL ANESTHESIA** | | |
| **Topic** | **Type** | **Time** |
| Orofacial pains | Theoric | 2 |
| Dental Anesthesia | Theoric | 10 |

**CRANIOMAXILLOFACIAL TRAUMA COURSE COMMITTEE**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-* Otorhınolaryngology | 3 | 0 | 3 |
| *-* Neurosurgy | 1 | 0 | 1 |
| *-* Plastıc Surgery | 3 | 0 | 3 |
| *-* General Surgery | 4 | 0 | 4 |
| *-* Infectıous Dıseases | 1 | 0 | 1 |
| **Total** | **12** | **0** | **12** |

**AIMS AND LEARNING OBJECTIVES OF THE COMMITTEE**

**Objective:**

The purpose of this course is to acquire knowledge about endocrine and craniomaxillofacial trauma, and to learn the necessary surgical and medical treatment techniques for managing developing infections.

**Learning Objectives:**

1. Provides knowledge about craniocephalic and maxillofacial trauma
2. Explains approaches to facial injuries
3. Describes infections occurring in the craniomaxillofacial region and treatment techniques.
4. Gains knowledge about soft tissue injuries.
5. Explains endocrine and metabolic responses to trauma.

**TOPICS**

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| --- | --- | --- |
| **OTORHINOLARYNGOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Ear, Nose, and Throat Anatomy | Theoric | 1 |
| Approach to facial injuries and nasal fractures | Theoric | 1 |
| Sinus diseases and surgeries | Theoric | 1 |
| **NEUROSURGY** | | |
| **Topic** | **Type** | **Time** |
| Craniocerebral traumas | Theoric | 1 |
| **PLASTIC SURGERY** | | |
| **Topic** | **Type** | **Time** |
| Approach to facial injuries | Theoric | 2 |
| Soft tissue injuries | Theoric | 1 |
| **GENERAL SURGERY** | | |

|  |  |  |
| --- | --- | --- |
| **Topic** | **Type** | **Time** |
| Shock | Theoric | 1 |
| Endocrine and metabolic response to trauma | Theoric | 1 |
| Liquid electrolyte balance and acid base balance | Theoric | 1 |
| Surgical infection, burn and surgical antibiotics | Theoric | 1 |

|  |  |  |
| --- | --- | --- |
| **INFECTIOUS DISEASES** | | |
| **Topic** | **Type** | **Time** |
| Rabies and tetanus | Theoric | 1 |

SOCIAL SCIENCES CONTENT IN DENTISTRY EDUCATION

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| Socıal Scıences Content In Dentıstry Educatıon | 1 | 0 | 1 |

**AIMS AND LEARNING OBJECTIVES OF THE COMMITTEE**

**Objective:**

The purpose of this course is to educate students about professional ethics and to provide them with a sociological perspective.

**Learning Objectives:**

Defines how to apply ethical obligations in their professional life.

1. Explains the societal, cultural, economic, and political relationships of the concepts of health and illness.
2. Defines the importance of sociology in the field of health and explains its applications in the profession.

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| --- | --- | --- |
| **SOCIAL SCIENCES CONTENT IN DENTISTRY EDUCATION** | | |
| **Topic** | **Type** | **Time** |
| Basic principles of medical ethics | Theoric | 1 |
| Turkish Dental Association professional ethics rules | Theoric | 1 |
| Patient-physician relationship from an ethical perspective | Theoric | 1 |
| Ethics in dental practice | Theoric | 1 |
| Patient rights and legal regulations | Theoric | 1 |
| Research and publication ethics | Theoric | 1 |
| Ethical dilemmas and malpractice | Theoric | 1 |
| health inequalities | Theoric | 1 |
| Modern State and health policies | Theoric | 1 |
| Health sociology | Theoric | 1 |
| Sociological theories and health | Theoric | 1 |
| Health and social relations | Theoric | 1 |
| Health, disease and culture | Theoric | 1 |

**TOPICS**

**COMMUNICATION COMMITTEE IN DENTISTRY**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-* Communication in Dentistry | 1 | 0 | 1 |

**AIMS AND LEARNING OBJECTIVES OF THE COMMITTEE**

**Objective:**

The purpose of this course is to provide information about the role and application of human psychology and health communication in the profession.

**Learning Objectives:**

1. Explains healthy communication methods.
2. Uses coping methods for managing stress encountered in professional life.
3. Uses effective communication methods with patients and team members
4. **Explains the role of psychology in health and concepts of personality.**

|  |  |  |
| --- | --- | --- |
| COMMUNICATION IN DENTISTRY | | |
| **Topic** | **Type** | **Time** |
| What is Psychology? | Theoric | 1 |
| Learning and Conditioning | Theoric | 1 |
| Stress and Health | Theoric | 1 |
| Personality | Theoric | 1 |
| Active Listening | Theoric | 1 |
| Motivation and Leadership | Theoric | 1 |
| Psychological Disorders | Theoric | 1 |
| Self-Awareness and Its Importance in Communication | Theoric | 1 |
| The Cognitive Aspect of Humans | Theoric | 1 |
| Human Behavioral Traits | Theoric | 1 |
| Therapeutic Communication and Empathy | Theoric | 1 |
| Communication Conflicts and Anger Management | Theoric | 1 |
| Team Communication | Theoric | 1 |
| Communication in Special Situations | Theoric | 1 |

**TOPICS**

**PROSTHODONTICS**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-* Prosthodontics | 56 | 112 | 168 |
| **Total** | **56** | **112** | **168** |

**COURSE OBJECTIVES AND LEARNING OUTCOMES**

**Objective:**

The purpose of this course is to define the indications for fixed prostheses, tissue-supported complete dentures, and tooth-supported removable partial dentures, and to apply the stages of their implementation.

**Learning Objectives:**

1. Lists the indications for prosthetic treatment.
2. Describes the applications of fixed prostheses, lists the stages of restoration production, and applies them.
3. Describes the applications of tissue-supported complete dentures, lists the stages of restoration production, and applies them.
4. Describes the applications of tooth and tissue-supported removable partial dentures, lists the stages of restoration production, and applies them.

**TOPICS**

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| --- | --- | --- |
| **PROSTHODONTICS** | | |
| **Topic** | **Type** | **Time** |
| Oral Examination and Preparation for Fixed Prosthodontics | Theoric | 2 |
| Anterior Tooth Preparation | Practical | 4 |
| Impression Techniques and Retraction in Fixed Prosthodontics | Theoric | 2 |
| Anterior Tooth Preparation | Practical | 4 |
| Obtaining and Transferring Occlusal Records in Fixed Prosthodontics | Theoric | 2 |
| Posterior Tooth Preparation | Practical | 4 |
| Inlay and Onlay Restorations | Theoric | 2 |
| Posterior Tooth Preparation | Practical | 4 |
| Impact of Laboratory Errors on the Clinic in Fixed Prosthodontics, Adjusting Fixed Prostheses in the Oral Cavity, and Communication with the Dental Laboratory | Theoric | 2 |
| Inlay and Onlay Preparation | Practical | 4 |
| Color and Aesthetics in Dentistry: Color Matching Techniques, Form Creation, and Illusion Principles | Theoric | 2 |
| Inlay and Onlay Preparation | Practical | 4 |
| Post-Core Restoration Techniques in Fixed Prosthodontics (Prefabricated vs. Cast) and Cementation | Theoric | 2 |
| Post Build-Up for Single-Rooted Teeth | Practical | 4 |
| Traditional Cementation in Fixed Prosthodontics | Theoric | 2 |
| Anterior Tooth Preparation on a Phantom | Practical | 4 |
| Adhesive Cementation in Fixed Prosthodontics | Theoric | 2 |
| Anterior Tooth Preparation on a Phantom | Practical | 4 |
| Faulty Applications in Fixed Prosthodontics: Causes and Methods for Bridge Removal | Theoric | 2 |
| Anterior Tooth Preparation on a Phantom | Practical | 4 |
| Causes of Failure and Solutions for Porcelain Fixed Restorations | Theoric | 2 |
| Posterior Tooth Preparation on a Phantom | Practical | 4 |
| Repair Principles for Metal-Ceramic Restorations | Theoric | 2 |
| Posterior Tooth Preparation on a Phantom | Practical | 4 |
| General Principles of Full-Arch Bridges | Theoric | 2 |
| Posterior Tooth Preparation on a Phantom | Practical | 4 |
| Delivery of Fixed Prosthodontic Restorations and Patient Education (Oral Hygiene) | Theoric | 2 |
| Impression Taking from a Prepared Tooth on a Phantom | Practical | 4 |
| Examination and Mouth Preparation for Complete Dentures, Primary and Final Impressions for Complete Dentures | Theoric | 2 |
| Impression Taking from a Prepared Tooth on a Phantom | Practical | 4 |
| Discussion of Various Impression Materials and Techniques for Complete Dentures, Post Dam Area and Construction Techniques | Theoric | 2 |

|  |  |  |
| --- | --- | --- |
| Impression Taking from a Prepared Tooth on a Phantom | Practical | 4 |
| Basic Concepts of Interocclusal Relationships: Horizontal and Vertical Occlusal Relationships | Theoric | 2 |
| Taking Impressions for Complete Dentures on a Phantom (Initial Impressions with a Stock Tray) | Practical | 4 |
| Aesthetic Anterior Tooth Arrangement in Complete Dentures, Posterior Teeth and Occlusion in Complete Dentures | Theoric | 2 |
| Taking Final Impressions for Complete Dentures on a Phantom (Using a Custom Tray) | Practical | 4 |
| Evaluation of the Denture Trial and Phonetics in Complete Dentures, Adjusting Dentures for Patient's Mouth and Occlusal Relationships, Patient Education | Theoric | 2 |
| Taking Final Impressions for Complete Dentures on a Phantom (Using a Custom Tray) | Practical | 4 |
| Retention Principles in Complete Dentures, Single Complete Dentures, Causes and Prevention of Breakage | Theoric | 2 |
| Model Construction from Final Impressions Using the Box Technique on a Phantom | Practical | 4 |
| Lining, Relining, and Repair of Complete Dentures, Neutral Zone Concept in Complete Dentures | Theoric | 2 |
| Model Fabrication from Final Impressions Using the Boxing Technique on a Phantom | Practical | 4 |
| Examination and Indications for Removable Partial Dentures, Impression Techniques and Trays for Removable Partial Dentures: Anatomical Impression and Diagnostic Model | Theoric | 2 |
| Components of a Removable Partial Denture Framework (Maxillary and Mandibular) (Direct and Indirect Retainers, Major and Minor Connectors Wax Modeling) | Practical | 4 |
| Diagnosis Model Analysis in Removable Partial Dentures: Identifying the Path of Insertion, Oral Preparation for Removable Partial Dentures | Theoric | 2 |
| Components of the Removable Partial Denture Framework (Maxillary and Mandibular): Direct and Indirect Retainers, Wax Modeling of Major and Minor Connectors | Practical | 4 |
| Oral Preparations for Abutment Teeth in Removable Partial Dentures, General Planning Principles for Removable Partial Dentures | Theoric | 2 |
| Preparation of Slot Grooves on Enamel of Extracted Natural Teeth (Occlusal-Embrasure-Singulum) | Practical | 4 |
| Removable Partial Denture Planning Principles: Class I and II, Class III and IV | Theoric | 2 |
| Preparation of Slot Grooves on Enamel of Extracted Natural Teeth (Occlusal-Embrasure-Singulum) | Practical | 4 |
| Impression Techniques and Trays for Removable Partial Dentures: Functional Impression Methods, Analysis of the Master Model in Removable Partial Dentures | Theoric | 2 |
| Taking Kennedy Class I Impressions on a Phantom (Initial Impression with a Stock Tray) | Practical | 4 |
| Metal Framework and Tooth Try-In Stages in Removable Partial Dentures, Application of Removable Partial Dentures and Patient Education | Theoric | 2 |
| Taking Kennedy Class I Impressions on a Phantom (Final Impression with a Custom Tray) | Practical | 4 |
| General Review Practice: Remediation | Theoric | 2 |

**Restorative Dentistry**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-* Restorative Dentistry | 28 | 56 | 84 |
| **Total** | **28** | **56** | **84** |

**COURSE OBJECTIVES AND LEARNING OUTCOMES**

**Objective:**

The Aim of This Course is to Learn Clinical Applications of Restorative Dentistry in a Preclinical Setting and to Conduct Work on Phantom Teeth.

**Learning Objectives:**

1. Defines tooth structure.
2. Lists adjacent supporting tissues and anatomical structures of the teeth
3. Lists patient positioning techniques based on the tooth being treated
4. Reinforces cavity preparation principles by repeating techniques on phantom heads
5. Identifies restorative materials and lists their applications and techniques

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **RESTORATIVE DENTISTRY** | | |
| **Topic** | **Type** | **Time** |
| Enamel structure and enamel caries | Theoric | 1 |
| Introductory lesson, demonstration of phantom use, adaptation of working jaws | Practical | 2 |
| Enamel structure and enamel caries | Theoric | 1 |
| Working positions in phantom, working position table demo, amalgam studies | Practical | 2 |
| Dentin structure and dentin caries | Theoric | 1 |
| Amalgam restoration works, 46 MOD, 35 OG SLOT DISTAL, 16 OM, 26 OP | Practical | 2 |
| Dentin structure and dentin caries | Theoric | 1 |
| Amalgam restoration works, 46 MOD, 35 OG SLOT DISTAL, 16 OM, 26 OP | Practical | 2 |
| Cementum and root caries | Theoric | 1 |
| Amalgam restoration works, 46 MOD, 35 OG SLOT DISTAL, 16 OM, 26 OP | Practical | 2 |
| Isolation in conservative dental treatment | Theoric | 1 |
| Anterior composite restoration studies, 22 Modified CL 3, CL4, CL5, 12 Bizotage Classic CL3, CL4, 44 Bizotage Classic CL5, 23 Assisted Bizotage | Practical | 2 |
| Non-carious lesions of teeth: etiology, classification Treatment of non-carious lesions of teeth | Theoric | 1 |
| Anterior composite restoration studies, 22 Modified CL 3, CL4, CL5, 12 Classic with Bezotage CL3, CL4,44 Classic with Bezotage CL5, 23 With Bezotage with Assistant | Practical | 2 |
| Non-carious lesions of teeth: etiology, classification Treatment of non-carious lesions of teeth | Theoric | 1 |
| Anterior composite restoration studies, 22 Modified CL 3, CL4, CL5, 12 Bizotage Classic CL3, CL4, 44 Bizotage Classic CL5, 23 Assisted Bizotage | Practical | 2 |
| Caries diagnosis: clinical and radiological examination Practical: Anterior composite restoration studies, 22 Modified CL 3, CL4, CL5, 12 Bizotage Classic CL3, CL4, 44 Bizotage Classic CL5, 23 Assisted Bizotage | Theoric | 1 |
| Anterior composite restoration studies, 22 Modified CL 3, CL4, CL5, 12 Bizotage Classic CL3, CL4, 44 Bizotage Classic CL5, 23 Assisted Bizotage | Practical | 2 |
| Deep dentin caries and treatment methods | Theoric | 1 |
| Posterior composite restoration demonstration and studies in phantom, 25 OG SLOT, 44 MOD, 46 Beveled Classic Class V, 34 OM CL2 | Practical | 2 |
| Adhesive systems | Theoric | 1 |
| Posterior composite restoration demonstration and studies in phantom, 25 OG SLOT, 44 MOD, 46 Beveled Classic Class V, 34 OM CL2 | Practical | 2 |
| Adhesive systems | Theoric | 1 |
| Posterior composite restoration demonstration and studies in phantom, 25 OG SLOT, 44 MOD, 46 Beveled Classic Class V, 34 OM CL2 | Practical | 2 |
| Adhesive systems | Theoric | 1 |
| Posterior composite restoration demonstration and studies in phantom, 25 OG SLOT, 44 MOD, 46 Beveled Classic Class V, 34 OM CL2 | Practical | 2 |
| Repair of amalgam and composite restorations | Theoric | 1 |
| Strip crown+Fracture demonstration studies in phantom, 11 horizontal fractures, oblique fractures -mesial- deep, 36 Noninvasive and invasive Fs, 37 PRRs | Practical | 2 |
| Complex amalgam restorations | Theoric | 1 |
| Strip crown+Fracture demonstration studies in phantom, 11 horizontal fractures, oblique fractures -mesial- deep, 36 Noninvasive and invasive Fs, 37 PRRs | Practical | 2 |
| Metal inlay restorations | Theoric | 1 |
| Strip crown+Fracture demonstration studies in phantom, 11 horizontal fractures, oblique fractures -mesial- deep, 36 Noninvasive and invasive Fs, 37 PRRs | Practical | 2 |
| Determining caries risk: saliva analysis | Theoretic | 1 |
| Filling renewal and caries-free cervical lesion studies, 12 CL3 Distal, 13 CL3 triangular cavities, 46 CL5, repair of 11 horizontal fractures, 16 MOD amalgam | Practical | 2 |
| Determination of caries risk: diet analysis | Theoric | 1 |
| Filling renewal and caries-free cervical lesion studies, 12 CL3 Distal, 13 CL3 triangular cavities, 46 CL5, repair of 11 horizontal fractures, 16 MOD amalgam | Practical | 2 |
| Caries prevention in adults: Caries prevention strategies | Theoric | 1 |
| Filling renewal and caries-free cervical lesion studies, 12 CL3 Distal, 13 CL3 triangular cavities, 46 CL5, repair of 11 horizontal fractures, 16 MOD amalgam | Practical | 2 |
| Caries prevention in adults: Fluoride, antibacterial agents and their applications | Theoric | 1 |
| Glass ionomer cement (GIC) studies, circular in 23 roots, classic CL5 in 24 buccal roots, classic CL5 with crown bevelling in 24 buccals, open sandwich technique in 24 linguals. | Practical | 2 |
| Caries prevention in adults: Caries control restorations | Theoric | 1 |
| Glass ionomer cement (GIC) studies, circular in 23 roots, classic CL5 in 24 buccal roots, classic CL5 with crown bevelling in 24 buccals, open sandwich technique in 24 linguals. | Practical | 2 |
| Caries prevention in adults: dietary control and sugar variables | Theoric | 1 |
| Pulp capping lectures and demonstration pulp capping studies, direct capping on molar teeth, indirect capping on premolar teeth, mesial OG slot, 15 distal OG slots | Practical | 2 |
| Prevention of caries in adults: Pit and fissure sealants in adults | Theoric | 1 |
| Pulp capping lectures and demonstration pulp capping studies, direct capping on molar teeth, indirect capping on premolar teeth, mesial OG slot, 15 distal OG slots | Practical | 2 |
| Infection control in Conservative Dentistry CL3+BL5 (buccal) composite | Theoric | 1 |
| Complex restoration works in the phantom, repetition of works deemed inadequate, 36 MOD+BL5, 44 MOD composite, 23 BDL (half circular) composite, | Practical | 2 |
| Infection control in Conservative Dentistry | Theoric | 1 |
| Complex restoration works in the phantom were repeated, 36 MOD+BL5, 44 MOD composite, 23 BDL (semi-circular) composite, 13 CL3+BL5 (buccal) composite. | Practical | 2 |
| Introduction to minimally invasive approaches | Theoric | 1 |
| Complex restoration works in the phantom were repeated, 36 MOD+BL5, 44 MOD composite, 23 BDL (semi-circular) composite, 13 CL3+BL5 (buccal) composite. | Practical | 2 |
| Discussion | Theoric | 1 |
| Caries removal in molar teeth, cement application, amalgam restoration, completion of missing works | Practical | 2 |
| Discussion | Theoric | 1 |
| Caries removal in molar teeth, cement application, amalgam restoration, completion of missing works | Practical | 2 |

**ENDODONTICS**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-Endodontics* | 58 | 58 | 116 |
| **Total** | **58** | **58** | **116** |

**COURSE OBJECTIVES AND LEARNING OUTCOMES**

## Objective:

The aim of this course is to prepare students for clinical practice by teaching fundamental concepts of endodontic treatment and providing basic preclinical applications.

**Learning Objectives:**

By acquiring fundamental theoretical knowledge in endodontics, students will learn the pathogenesis and diagnosis of endodontic diseases.

1. By acquiring fundamental theoretical knowledge in endodontics, students will learn about treatment options, endodontic techniques, and materials.
2. By acquiring fundamental theoretical knowledge in endodontics, students will learn about patient follow-up and prognosis principles.
3. By acquiring basic preclinical/practical knowledge in endodontics, students will be able to apply endodontic procedures on extracted teeth.

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **ENDODONTICS** | | |
| **Topic** | **Type** | **Time** |
| Patient Examination in Endodontics | Theoric | 2 |
| Upper Incisor Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Diagnosis and Treatment Planning in Endodontics | Theoric | 2 |
| Upper Incisor Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Direct Pulp Capping, Indirect Pulp Capping, Vital Amputation Treatment in Permanent Teeth, Apexogenesis | Theoric | 2 |
| Lower Incisor Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Indications and Contraindications of Root Canal Treatment | Theoric | 2 |
| Lower Incisor Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Root Canal Treatment / Preparation of Teeth | Theoric | 2 |
| Upper Premolar Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Root Canal Treatment / Rubber Dam Application | Theoric | 2 |
| Upper Premolar Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Root Canal Treatment/Access Cavity | Theoric | 2 |
| Lower Premolar Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Root Canal Treatment / Working Length Determination, Use of Electronic Apex Finder | Theoric | 2 |
| Lower Premolar Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Root Canal Treatment / Expansion of Root Canals | Theoric | 2 |
| Upper Molar Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Root Canal Treatment / Expansion of Root Canals | Theoric | 2 |
| Upper Molar Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Root Canal Treatment / Irrigation of Root Canals | Theoric | 2 |
| Lower Molar Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Root Canal Treatment / Disinfection of Root Canals | Theoric | 2 |
| Lower Molar Endodontic Access Cavity Opening and Medication | Practical | 2 |
| Temporary Restoration Application | Theoric | 2 |
| Upper Incisor Endodontic Filling | Practical | 2 |
| Root Canal Treatment / Root Canal Filling Methods | Theoric | 2 |
| Upper Incisor Endodontic Filling | Practical | 2 |
| Pastes Used in Filling Root Canals | Theoric | 2 |
| Lower Incisor Endodontic Filling | Practical | 2 |
| Endodontic Radiography | Theoric | 2 |
| Lower Upper Incisor Endodontic Filling | Practical | 2 |
| Endodontic Microbiology | Theoric | 2 |
| Upper Premolar Endodontic Filling | Practical | 2 |
| Endodontic Microbiology | Theoric | 2 |
| Upper Premolar Endodontic Filling | Practical | 2 |
| Immunity and Endodontics | Theoric | 2 |
| Lower Premolar Endodontic Filling | Practical | 2 |
| Focal Infection | Theoric | 2 |
| Lower Premolar Endodontic Filling | Practical | 2 |
| Trauma to Adult Teeth | Theoric | 2 |
| Upper Molar Endodontic Filling | Practical | 2 |
| Crown-Root Fracture (Simple) Treatment, Crown-Root Fracture (Complicated) Treatment, Replantation of Avulsed Tooth, Splinting of Mobile Teeth, Treatment of Traumatic Extrusion, Treatment of Traumatic Intrusion, Treatment of Traumatic Lateral Luxation | Theoric | 2 |
| Upper Molar Endodontic Filling | Practical | 2 |
| Root Canal Treatment Applied in a Single Session | Theoric | 2 |
| Upper Molar Endodontic Filling | Practical | 2 |
| Periapical Tissue Healing Postoperative Observation | Theoric | 2 |
| Lower Molar Endodontic Filling | Practical | 2 |
| Systemic Drug Use in Endodontics | Theoric | 2 |
| Lower Molar Endodontic Filling | Practical | 2 |
| Devital Teeth Whitening | Theoric | 2 |
| Upper Molar Endodontic Filling | Practical | 2 |
| Emergency Treatments in Endodontics | Theoric | 2 |
| Make-up Week | Practical | 2 |
| Renewal of Root Canal Treatment | Theoric | 2 |
| Make-up Week | Practical | 2 |

**ORAL AND MAXILLOFACIAL SURGERY**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORICAL**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-* Oral and Maxillofacial Surgery | 58 | 0 | 58 |
| **Total** | **58** | **0** | **58** |

**COURSE OBJECTIVES AND LEARNING OUTCOMES**

## Objective:

The aim of this course is to teach patient examination and basic surgical interventions in oral and maxillofacial surgery together with systemic diseases and infection control methods.

**Learning Objectives:**

1. Gains the necessary information to examine patients and perform basic surgical interventions. It gives general information to people about the history and developments of Dentistry.
2. Learns disinfection and sterilization techniques and can apply the principles of asepsis and antisepsis.
3. Understands the importance of cross-infection and infectious diseases in oral and maxillofacial surgery and takes the necessary precautions to prevent them.
4. Have knowledge about the complications that may occur during and after surgical procedures and their solutions.
5. In cases where antibiotic prophylaxis is required, the student will have the knowledge to perform this application, will be able to understand the rational use of drugs and write the appropriate prescription.

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **ORAL AND MAXILLOFACIAL SURGERY** | | |
| **Topic** | **Type** | **Time** |
| Surgical Patient Examination: Evaluation of General Health | Theoric | 2 |
| Systemic Diseases | Theoric | 2 |
| Medical Comorbidities: Medical Approaches for High-Risk Patients | Theoric | 2 |
| Assessment and Surgical Approaches for Geriatric and Pediatric Patients | Theoric | 2 |
| Medical Emergencies: Patient Care and Management in Medical Emergencies | Theoric | 2 |
| Laboratory Diagnostic Methods in Oral and Maxillofacial Surgery, Imaging Techniques in Oral and Maxillofacial Surgery | Theoric | 2 |
| Basic Concepts of Infection and Modes of Transmission | Theoric | 2 |
| Infectious Diseases and Methods of Prevention | Theoric | 2 |
| Disinfection Principles and Techniques, Surgical Sterilization Principles and Techniques | Theoric | 2 |
| Asepsis, Antisepsis, Sterile Techniques, and Clean Techniques | Theoric | 2 |
| Surgical Anatomy | Theoric | 2 |
| Surgical Anatomy | Theoric | 2 |
| Instruments Used in Oral and Maxillofacial Surgery, Instruments Used in Tooth Extraction | Theoric | 2 |
| Tooth Extraction: Indications and Contraindications, Basic Principles of Surgery and Physics | Theoric | 2 |
| Tooth Extraction: Patient, Dentist, and Assistant Positions, Extraction of Erupted Lower Teeth | Theoric | 2 |
| Tooth Extraction: Extraction of Erupted Upper Teeth, Extraction of Retained or Fractured Roots | Theoric | 2 |
| Tooth Extraction: Extraction of Primary Teeth, Complications, and Solutions | Theoric | 2 |
| Tooth Extraction: Indications and Contraindications for Impacted Tooth Extraction | Theoric | 2 |
| Tooth Extraction: Extraction of Impacted Teeth with Mucosal Retention | Theoric | 2 |
| Tooth Extraction: Extraction of Fully Impacted Teeth (Wisdom Teeth and Other Teeth) | Theoric | 2 |
| Tooth Extraction: Healing Processes and Patient Follow-Up for Impacted Teeth, Complications of Impacted Tooth Extraction and Their Solutions | Theoric | 2 |
| Incision and Flap Techniques in Oral Surgery | Theoric | 2 |
| Suture Materials and Suture Techniques | Theoric | 2 |
| Surgical Procedures and Wound Healing: Post-Tooth Extraction Wound Healing and Incision Wound | Theoric | 2 |
| Case Summary and Report Preparation, Hemorrhage | Theoric | 2 |
| Common Medications in Oral and Maxillofacial Surgery and Prescription Writing | Theoric | 2 |
| Rational Drug Use and Antibiotic Prophylaxis | Theoric | 2 |
| Routes of Drug Administration: Intramuscular and Intravenous Methods | Theoric | 2 |
| General Review | Theoric | 2 |

**ORAL AND MAXILLOFACIAL RADIOLOGY**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORICAL**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOPLAM**  **COURSE DURATION (h)** |
| *-* Oral and Maxillofacial Radiology | 58 | 0 | 58 |
| **Toplam** | **58** | **0** | **58** |

**COURSE OBJECTIVES AND LEARNING OUTCOMES**

## Objective:

The aim of this course is to teach oral diseases and radiographic imaging techniques for accurate diagnosis and treatment planning.

**Learning Objectives:**

Applies intraoral and extraoral clinical and radiographic examination methods.

1. Differentiates between normal anatomical structures and pathological conditions for diagnosis.
2. Lists pathologies affecting the maxillofacial structures.
3. Describes the applications of X-rays in dentistry and outlines the fundamentals of X-ray production, its physical properties, and its mechanism.
4. Lists oral manifestations of systemic diseases.
5. Lists the harmful effects of radiation on biological tissues and methods for radiation protection.
6. Uses clinical and radiographic findings to list possible pathologies.
7. Reaches an accurate diagnosis and formulates a treatment plan.

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **ORAL AND MAXILLOFACIAL RADIOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Introduction to Radiation, Basic Definitions, Atom, Spectrum | Theoric | 2 |
| Radiation Physics, Wavelength, Energy Units | Theoric | 2 |
| X-ray Characteristics, X-ray Beam, Quality, Quantity, Penetration, Scatter, Barriers | Theoric | 2 |
| Biological Effects of Radiation 1 (Radiation Sources, Background Dose, Biological Effects, Acute Radiation Syndrome) | Theoric | 2 |
| Biological Effects of Radiation 2 (Somatic and Genetic Effects, Cell Sensitivity to Radiation, Effects of Radiation on the Oral Cavity) | Theoric | 2 |
| Radiation Protection 1 (Maximum Permissible Dose, Patient Exposure and Dose, ALARA Principle) | Theoric | 2 |
| Image Receptors (Conventional Films) (Structure of Digital Sensors) | Theoric | 2 |
| Conventional Image Formation, Developing Solutions, Darkroom, Radiographic Quality (Conventional Radiography) | Theoric | 2 |
| Image Formation in Digital Sensors, Radiographic Quality (Digital Radiography) | Theoric | 2 |
| Clinical Use and Sterilization of Digital Detectors | Theoric | 2 |
| Anatomical Landmark 1 (Maxilla) | Theoric | 2 |
| Anatomical Landmark 2 (Mandible) | Theoric | 2 |
| Intraoral Radiography Techniques 1 (Bisecting Angle and Bitewing Techniques) | Theoric | 2 |
| Intraoral Radiography Techniques 2 (Parallel, Occlusal, Donovan, and Le Master Techniques) | Theoric | 2 |
| Artifacts 1 (Conventional) | Theoric | 2 |
| Oral Diagnosis Oral Medicine, Ways to follow in reaching the diagnosis, definition of anamnesis, its importance, anamnesis form | Theoric | 2 |
| Vital Signs 1 (Pulse, blood pressure, respiration), Vital Signs 2 (Importance in Dentistry practices) | Theoric | 2 |
| Examination of systems 1 (Hypertension, Heart diseases) | Theoric | 2 |
| Examination of Systems 2 (Focal infection, prophylaxis, Acute Rheumatic fever) | Theoric | 2 |
| Examination of Systems 3 (Epilepsy, Kidney diseases, liver diseases, hepatitis) | Theoric | 2 |
| Examination of systems 4 (blood diseases, respiratory system diseases) | Theoric | 2 |
| Examination of systems 5 (Endocrine system diseases, gastrointestinal system, psychiatric diseases, eye, ear, nose and throat, Meniere's) | Theoric | 2 |
| Examination of systems 6 (skin rashes, allergies, patients undergoing radiotherapy, female conditions) | Theoric | 2 |
| Examination methods | Theoric | 2 |
| Extraoral Examination 1 (Walking, speaking, eyes, skin, hands and nails) | Theoric | 2 |
| Extraoral Examination 2 (Nose, ear, head and neck asymmetric findings) | Theoric | 2 |
| Intraoral Examination 1 (Halitosis, lips, cheek) | Theoric | 2 |
| Intraoral Examination 2 (Oropharynx and Tonsils, Hard and Soft palate, Tongue and Sublingual) | Theoric | 2 |
| Intraoral Examination 3 (Floor of mouth, Salivary glands, gums and teeth) | Theoric | 2 |

**PERIODONTOLOGY**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-* Periodontology | 58 | 0 | 58 |
| **Total** | **58** | **0** | **58** |

**COURSE OBJECTIVES AND LEARNING OUTCOMES**

## Objective:

The aim of this course is to teach periodontal tissues, periodontal diseases, the pathogenesis of periodontal diseases, and basic treatment methods.

**Learning Objectives:**

1. Gains knowledge about periodontal tissues.
2. Gains knowledge about periodontal microbiology.
3. Acquires knowledge about the pathogenesis of periodontal diseases.
4. Classifies periodontal diseases.
5. Provides information about mucogingival deformities.
6. **Identifies the hand instruments used in periodontology.**

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **PERIODONTOLOGY** | | |
| **Topic** | **Type** | **Time** |
| Introduction to Periodontal Tissues: Oral Mucosa and Gingiva: Anatomy, Structure, Function | Theoric | 2 |
| Introduction to Periodontal Tissues: Alveolar Bone, Periodontal Ligament, Cementum: Anatomy, Structure, Function | Theoric | 2 |
| Etiology of Periodontal Diseases: Plaque and Calculus | Theoric | 2 |
| Etiology of Periodontal Diseases: Local and Systemic Factors, Risk Factors | Theoric | 2 |
| Periodontal Microbiology | Theoric | 2 |
| Saliva | Theoric | 2 |
| Pathogenesis of Periodontal Diseases | Theoric | 2 |
| The Immune Response in Periodontal Disease Pathogenesis | Theoric | 2 |
| Dentogingival Defense Mechanisms | Theoric | 2 |
| Gingival Health and Plaque-Induced Gingivitis | Theoric | 2 |
| Classification of Periodontal Diseases: Definition of the Classification | Theoric | 2 |
| Classification of Periodontal Diseases: Definition of the Classification | Theoric | 2 |
| Periodontitis: Differentiation between Gingivitis and Periodontitis | Theoric | 2 |
| Bone Loss and Periodontal Pocket Formation | Theoric | 2 |
| Systemically Influenced Periodontal Diseases: Smoking | Theoric | 2 |
| Systemically Influenced Periodontal Diseases: Endocrine Disorders | Theoric | 2 |
| Systemically Influenced Periodontal Diseases: Pharmacological Drugs, Hematologic Conditions, Nutritional Deficiencies | Theoric | 2 |
| Systemically Influenced Periodontal Diseases: Periodontal Approaches in Female Patients | Theoric | 2 |
| Non-Plaque-Induced Gingivitis: Specific Infections (Bacterial, Viral, Fungal Origins) | Theoric | 2 |
| Non-Plaque-Induced Gingivitis: Autoimmune and Reactive Conditions of the Skin and Mucous Membrane (Lichen Planus, Pemphigoid, Pemphigus Vulgaris, Erythema Multiforme, Lupus Erythematosus, Plasma Cell Gingivitis) | Theoric | 2 |
| Gingival Neoplastic Lesions, Traumatic Lesions (Thermal, Physical, Chemical), and Gingival Pigmentation | Theoric | 2 |
| Necrotizing Periodontal Diseases | Theoric | 2 |
| Pediatric Gingival Diseases | Theoric | 2 |
| Traumatic Occlusal Forces: Occlusal Trauma, Mobility, Parafunctional Habits (Bruxism) | Theoric | 2 |
| Diagnosis of Periodontal Diseases: Clinical and Radiographic Evaluation, Index Systems, Advanced Periodontal Diagnostic Methods | Theoric | 2 |
| Treatment Planning for Periodontal Diseases | Theoric | 2 |
| Phase I Periodontal Therapy | Theoric | 2 |
| Introduction to Periodontal Instruments | Theoric | 2 |
| Use of Periodontal Instruments | Theoric | 2 |

**PEDIATRIC DENTISTRY**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-* Pediatric Dentistry | 29 | 0 | 29 |
| **Total** | **29** | **0** | **29** |

**COURSE OBJECTIVES AND LEARNING OUTCOMES**

## Objective:

The goal is to provide a foundation for understanding the importance and functions of primary teeth, behavior management in pediatric patients, examination of pediatric patients, preventive measures, characteristics of primary tooth caries, as well as restorative and endodontic treatments, and to enable them to apply these concepts in future practice.

**Learning Objectives:**

1. Understanding the importance, functions, and eruption times of primary teeth is used in clinical diagnosis and treatment planning.
2. Uses the characteristics of caries specific to primary and young permanent teeth in restorative treatment applications.
3. Defines the principles of prevention and preventive dentistry for children from birth to adolescence, performs caries risk assessment based on age groups, and designs age-appropriate preventive programs.
4. Applies the principles, methods, and material properties of restorative and endodontic treatments specific to primary teeth correctly in clinical practice.
5. Uses knowledge of history taking, examination, and radiological methods for pediatric and adolescent patients to make accurate diagnoses and develop treatment plans.
6. Applies age-appropriate behavior management techniques in clinical practice for pediatric patients.
7. Accurately applies cavity preparation principles and restorations for primary teeth in a simulated environment for pediatric patients.

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **PEDIATRIC DENTISTRY** | | |
| **Topic** | **Type** | **Time** |
| Functions and Importance of Primary Teeth | Theoric | 1 |
| Eruption of Primary and Permanent Teeth | Theoric | 1 |
| Prevalence of Dental Caries in Primary Dentition and Risk Factors for Its Development | Theoric | 1 |
| Severity and Prevalence of Dental Caries in Primary Teeth in Children | Theoric | 1 |
| Early Childhood Caries and Contributing Factors | Theoric | 1 |
| Mechanical Control of Dental Plaque in Children, Role of Diet in Caries Prevention, and Use of Antimicrobials | Theoric | 1 |
| Fluoride Applications in Children | Theoric | 1 |
| Caries Risk Assessment in Children and Development of Preventive Programs Based on Caries Risk | Theoric | 1 |
| Remineralization Therapy for Initial Carious Lesions | Theoric | 1 |
| Fissure Sealant Applications in Children | Theoric | 1 |
| Protective Resin Restorations | Theoric | 1 |
| Objectives of Restorative Treatment in Primary Teeth | Theoric | 1 |
| Considerations for Developing a Restorative Treatment Plan for Children | Theoric | 1 |
| Cavity Preparation Principles in Primary Teeth and Restorative Materials Used in Primary Teeth | Theoric | 1 |
| Atraumatic Restorative Treatment for Primary Teeth | Theoric | 1 |
| Vital Pulp Therapy Principles in Primary Teeth | Theoric | 1 |
| Vital Pulp Therapy Principles in Primary Teeth | Theoric | 1 |
| Vital Pulp Therapy Principles in Primary Teeth | Theoric | 1 |
| Indirect and Direct Pulp Capping in Primary Teeth | Theoric | 1 |
| Amputation Treatments for Primary Teeth | Theoric | 1 |
| Amputation Treatments for Primary Teeth | Theoric | 1 |
| Materials and Medicaments Used in Vital Pulp Therapy for Primary Teeth | Theoric | 1 |
| Materials and Medicaments Used in Vital Pulp Therapy for Primary Teeth | Theoric | 1 |
| Medical and Dental History in Pediatric Dentistry | Theoric | 1 |
| Extraoral and Intraoral Examination in Pediatric Dentistry | Theoric | 1 |
| Radiographic Examination in Pediatric Dentistry | Theoric | 1 |
| Examination and Radiographic Assessment in Pediatric Dentistry | Theoric | 1 |
| Children's behavior according to age | Theoric | 1 |
| Behavior management in pediatric patients | Theoric | 1 |

**ORTHODONTICS**

|  |  |  |  |
| --- | --- | --- | --- |
| **COURSES** | **THEORIC**  **COURSE DURATION (h)** | **PRACTICAL**  **COURSE DURATION (h)** | **TOTAL**  **COURSE DURATION (h)** |
| *-*Orthodontics | 56 | 28 | 84 |
| **Total** | **56** | **28** | **84** |

**COURSE OBJECTIVES AND LEARNING OUTCOMES**

## Objective:

The aim of this course is to teach the diagnosis and treatment processes of developmental disorders in the jaw, face, and dental regions.

**Learning Objectives:**

1. Diagnoses orthodontic malocclusions.
2. Evaluates radiographs used for orthodontic diagnosis and performs cephalometric film tracing.
3. Prepares orthodontic diagnostic cast models and performs arch length analysis on the models.
4. Performs the necessary wire bending and laboratory procedures for the fabrication of removable appliances.
5. Lists appropriate treatment options for orthodontic malocclusions.

**TOPICS**

|  |  |  |
| --- | --- | --- |
| **ORTHODONTICS** | | |
| **Topic** | **Type** | **Time** |
| Definition and History of Orthodontics, Orthodontic Terminology | Theoric | 2 |
| Orthodontic Malocclusions, Growth and Development Concepts | Theoric | 2 |
| Growth and Development Concepts, Methods for Studying Growth and Development | Theoric | 2 |
| Prenatal Head and Neck Development | Theoric | 2 |
| Prenatal Development of the Face, Palate, and Tongue, Prenatal Development of the Cranial Base and Vault | Theoric | 2 |
| Postnatal Head and Neck Development | Theoric | 2 |
| Principles of Skeletal Growth, Growth Sites and Centers | Theoric | 2 |
| Growth Control Theories | Theoric | 2 |
| Growth and Development of the Cranial Vault and Base | Theoric | 2 |
| Growth and Development of the Nasomaxillary Complex | Theoric | 2 |
| Growth and Development of the Mandible | Theoric | 2 |
| Facial Changes During Maturation, Dental Development | Theoric | 2 |
| Developmental Anomalies | Theoric | 2 |
| Clinical Examination and Diagnostic Methods in Orthodontics | Theoric | 2 |
| Clinical Examination and Diagnostic Methods in Orthodontics | Theoric | 2 |
| Explanation of Practical Work Rules, Introduction to Instruments and Materials, and How to Obtain Orthodontic Cast Models | Pratik | 2 |
| Orthodontic Model Fabrication and Model Analysis | Theoric | 2 |
| Orthodontic Model Analysis | Practical | 2 |
| Age Assessment in Orthodontics - Hand-Wrist Radiograph, Vertebral Maturation | Theoric | 2 |
| Age Estimation Using Hand-Wrist Radiograph and Vertebral Maturation Method | Practical | 2 |
| Cephalometric Assessment in Orthodontics (Film Tracing, Landmarks, Lines, and Planes) | Theoric | 2 |
| Cephalometric Film Tracing and Identification of Landmarks | Practical | 2 |
| Cephalometric Evaluation in Orthodontics (Analyses) | Theoric | 2 |
| Cephalometric Film Analysis, Assignment Submission (1) | Practical | 2 |
| Cephalometric Evaluation in Orthodontics | Theoric | 2 |
| Cephalometric Film Analysis, Assignment Submission (1) | Practical | 2 |
| Adams Clasp | Theoric | 2 |
| Adams Clasp Bending | Practical | 2 |
| Adams Clasp | Theoric | 2 |
| Adams Clasp Bending | Practical | 2 |
| Vestibular Arch | Theoric | 2 |
| Bending the Vestibular Arch | Practical | 2 |
| Drop Clasp | Theoric | 2 |
| Drop Clasp Bending | Practical | 2 |
| Labiolingual spring | Theoric | 2 |
| Labiolingual spring Bending | Practical | 2 |
| Mesiodistal spring | Theoric | 2 |
| Mesiodistal spring Bending | Practical | 2 |
| Acrylic Processing, Finishing, and Polishing | Theoric | 2 |
| Completion of Appliance Bends, Assignment Submission (2) | Practical | 2 |
| Principles of Appliance Planning | Theoric | 2 |
| Appliance Planning | Practical | 2 |