



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

**كلية طب الأسنان**  
**FACULTY OF DENTISTRY**



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

## Department of Basic Dental Sciences

### **BDS121 Dental anatomy I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Introduction and nomenclature, Maxillary and Mandibular permanent central incisor, and lateral incisor, Maxillary and Mandibular permanent canine, Pulp cavities of the anterior teeth, Maxillary and Mandibular first and second premolar, Pulp cavities of the premolars, maxillary first and second molar, maxillary and mandibular third molar,

### **BDS122 Dental anatomy II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **BDS121**

Pulp cavities of the maxillary and mandibular molars, Deciduous dentition, Essential differences between deciduous and permanent teeth, Occlusion of the deciduous teeth, Permanent mandibular first molar, second molar, mandibular third molar, Physiologic tooth form, Protecting the periodontium, Geometric concepts of crown outlines with introduction about the TMJ and oral physiology.

### **BDS211 Oral biology I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Stages of tooth development, Growth of teeth and bio-mineralization, Amelogenesis, Dentinogenesis, Tooth enamel, Tooth dentine,

Embryology, Development of face and oral cavity,

### **BDS212 Oral biology II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **BDS211**

Tooth cementum, Alveolar process, Dental pulp, Oral mucous membrane, Salivary glands, Growth and development of maxilla and mandible, Tooth eruption, Shedding of deciduous teeth, Maxillary sinus and lymph drainage.

### **BDS331 Oral pathology I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Developmental Anomalies of Teeth. Dental Caries. Diseases of The Pulp. Cysts of Oral and Paraoral Region. Osteomyelitis. Bone Diseases. White and Precancerous Lesions:

### **BDS332 Oral pathology II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **BDS331**

Non-Odontogenic Tumours and Tumour-Like Lesion. -. Odontogenic Tumours: Salivary Glands Tumours. -. Metabolic and Endocrinal Disturbances. -. Developmental Anomalies of Oral Tissues. -. Viral, Bacterial and Mycotic Lesions. -. Giant Cell Lesions. -. Oral Manifestations of AIDS. -. Etiology of Oral Cancer. -. Pigmentation of



EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

the Oral Mucosa. - Resorption of Teeth.

### **BDS341 Oral radiology I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Concepts of Radiology Imaging. Production of X-ray. The X-ray machine, Radiographic Techniques and Procedures.

### **BDS342 Oral radiology II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **BDS341**

Special Imaging Techniques. Concepts of panoramic radiography, Troubleshooting panoramic techniques, Special radiographic techniques. Radiation Health. Radiographic Image Interpretation. laser usage in dentistry.

### **BDS351 Nanodentistry**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Introduction to nanodentistry. The structure of material and physical properties. The different types of dental material. The usage of nanodentistry. The scope and the future of nanodentistry.

### **BDS352 Management of scientific meeting**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Special Imaging Techniques. Concepts of panoramic radiography, Troubleshooting panoramic techniques, Special radiographic techniques. Radiation Health. Radiographic Image Interpretation. laser usage in dentistry.



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

## Department of Prosthetic Dentistry

### **PDD131 Dental biomaterials I**

3 Cr. Hrs. = (2 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 150 – ECTS = 6

Prerequisite ---

Introduction: Scope of the Course: Objective, Requirements. Physical Properties. Mechanical Properties. The Structure of Perfect Solids. Polymers & Polymerization.

### **PDD132 Dental biomaterials II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **PDD131**

Introduction, Impression materials (Non-elastic impression materials, Elastic impression materials), Gypsum products, Model and die materials, Dental waxes, Investing and casting procedures (Dental casting investments, casting procedures and casting defects),

### **PDD211 Removable prosthodontics I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

- Introduction, Anatomical landmarks, Trays, Casting, Record blocks, Mandibular movements, Jaw relation, Articulators, Selection of teeth, Arrangement of teeth.

### **PDD212 Removable prosthodontics II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Complete Denture. Arrangement of teeth, Posterior palatal seal, Relief, Denture processing, Retention, Repair, Maxillofacial prosthetics.

### **PDD221 Fixed prosthodontics I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Introduction and Orientation. Principles of Tooth Preparation. Gold Inlay Preparations. Gold Onlay Preparations. Posterior ¾ Crown Preparation.

### **PDD222 Fixed prosthodontics II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Impression Materials. Final Impressions. Working Casts and Removable Dies. Dental Waxes and Waxing Procedures. Pontics. Fixed Partial Denture Connectors. Porcelain Inlay and Onlay Preparations.

### **PDD233 Dental biomaterials III**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Denture base polymers, Denture lining materials, Dental amalgam, Restorative casting metals, Base metal casting alloys for removable



prosthetics, Stainless steel, Metal joining in dentistry, Dental cements, Direct esthetic restorative materials, Dental porcelain. Dental ceramics.

### **PDD241 stomatology**

1 Cr. Hrs. = (1 LCT + 0 TUT + 0 LAB + 0 OTH) – SWL = 45 – ECTS = 2

Prerequisite ---

Crown outline function, tooth form protecting periodontium, muscle of mastication, Temporo-mandibular joint, TMJ positions, functions of saliva, mechanism of eruption, mechanism of shedding, Function and defense mechanism of oral mucosa.

### **PDD271 occlusion I**

1 Cr. Hrs. = (1 LCT + 0 TUT + 0 LAB + 0 OTH) – SWL = 45 – ECTS = 2

Prerequisite ---

Mandibular movements, types of articulators, importance of face-bow transfer, mounting casts on the articulator. Functional anatomy of masticatory system, Biomechanics of mandibular movements.

### **PDD313 Removable prosthodontics III**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Removable Partial Denture. Introduction to removable partial denture, Classification, Components of partial denture, Base, Occlusal rests and similar parts, Direct retainers, Indirect retainers, Connectors, Stress breakers, Principles of designing, Materials used in partial dentures, Acrylic removable partial dentures.

### **PDD314 Removable prosthodontics IV**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

advanced preparation for overdenture and advanced design for partial denture.

### **PDD323 Fixed prosthodontics III**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Impression Materials. Final Impressions. Working Casts and Removable Dies. Dental Waxes and Waxing Procedures. Pontics. Fixed Partial Denture Connectors. Porcelain Inlay and Onlay Preparations.

### **PDD324 Fixed prosthodontics IV**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Impression Materials. Final Impressions. Working Casts and Removable Dies. Dental Waxes and Waxing Procedures. Pontics. Fixed Partial Denture Connectors. Porcelain Inlay and Onlay Preparations.

### **PDD351 digital dentistry**

1 Cr. Hrs. = (1 LCT + 0 TUT + 0 LAB + 0 OTH) – SWL = 45 – ECTS = 2

Prerequisite ---

CAD/CAM. Virtual dentistry. Different methods of stents. Digital methods to check occlusion. Method to filing cases for patients.

**PDD352 Geriatric dentistry**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Introduction to geriatric dentistry. The importance of geriatric dentistry field. Different types of elder cases according to the mental state. How to control and handle the elder patients. The special hazards from the dental care to the elders.

**PDD353 Forensic dentistry**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Introduction to forensic dentistry. The scope of forensic dentistry. The role of the dentist to investigate different cases. Different prints can be done by oral cavity. The analysis of DNA and its role in forensic dentistry.

**PDD354 Implant dentistry**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Introduction to implant dentistry. The structure of implant. The different types of implant. The usage of dental implant. The hazard of different implantation methods.

**PDD415 Removable prosthodontics V**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Clinical Complete Denture. Introduction to removable prosthodontics, Diagnosis & treatment planning, Impressions, Mandibular movements, Maxillomandibular relation, Selection of Teeth, Trial of dentures,

Denture delivery, Post insertion complaints, Relining and rebasing, Repair and additions.

**PDD416 Removable prosthodontics VI**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Clinical Removable Partial Dentures. Introduction to partial dentures, Diagnosis and treatment planning, Mouth preparation, Impression for RPD, Jaw relations, Trial and adjustments, Delivery and adjustments, Post insertion care, Relining of RPD, Repairs and additions.

**PDD425 Fixed prosthodontics V**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Dental Ceramics. Porcelain Build-up. Restoration of Endodontically Treated Teeth.

**PDD426 Fixed prosthodontics VI**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

advanced preparation for tilted teeth and telescopic preparation and advanced design for partial denture.

**PDD517 Removable prosthodontics VII**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Maxillofacial Prosthodontics. Introduction, Congenital cleft palate, Acquired cleft palate, Splints, Stents, Mandibular resection, Radiotherapy.





EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

### **PDD518 Removable prosthodontics VIII**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Advanced Prosthodontics. Geriatrics, Speech, Single dentures, Over dentures, Immediate dentures, Swing lock RPD, Prosthetic attachments, TMJ, Implant dentures.

### **PDD527 Fixed prosthodontics VII**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Effects of Loss of Teeth. Diagnosis and Treatment Planning. Advanced Occlusion I. Porcelain Laminate Veneer Restorations. Color Science. Esthetics in Fixed Prosthodontics. Resin-Retained FPDs. All-Ceramic Crown Restorations. Management of Extensively Damaged Teeth. Try-in Procedures. Cementation of Fixed Partial Dentures. Failures of Fixed Partial Dentures. Fixed Partial Denture Designs.

### **PDD528 Fixed prosthodontics VIII**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Considerations for Periodontally Involved Teeth. Preparations for Special Situations. Cementation Procedures for Different Restorations. Fixed Partial Denture Repair. Fixed Partial Denture Removal. Orthodontic Adjuncts to Prosthodontics. Post insertion Care and Follow up.

### **PDD561 ESTHETIC DENTISTRY**

1 Cr. Hrs. = (1 LCT + 0 TUT + 0 LAB + 0 OTH) – SWL = 45 – ECTS = 2

Prerequisite ---

Introduction to esthetic in dentistry. The explanation of the esthetic zone. The different smile design technique. The different restorations for restoring esthetic zone. The psychology effect behind esthetic restoration.



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

## Department of Conservative Dentistry

### **CDD211 Operative dentistry I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

. Objectives of Operative Dentistry, Dental Caries and Locations. - Classification of Cavities, Nomenclature and Terminology. - Principles of Cavity Preparation. Outline form, Resistance form, Retention form, Convenience form, Removal of decay, Finishing of enamel margin, Cavity debridement. Cavity Preparation for Amalgam. Class I cavity preparation, Class II cavity preparation, Class V cavity preparation. Instruments and instrumentation. Hand cutting instruments.

### **CDD212 Operative dentistry II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Composite Restoration. Glass Ionomer Restoration. Cavity Preparation for Gold Inlay. Class I, II and V, Class III and IV.

### **CDD221 Endodontics I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Introduction to Endodontics. History, Scope of endodontics, Modern endodontic. Pulp space Anatomy and Access cavities. Nomenclature, Types of canal configurations, Pulp space anatomy of upper and lower teeth, Alterations in internal anatomy, Pulp space anatomy and access

openings.

### **CDD313 Operative dentistry III**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Composite Restoration. Glass Ionomer Restoration. Cavity Preparation for Gold Inlay. Class I, II and V, Class III and IV.

### **CDD314 Operative dentistry IV**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Gold Inlay Restoration. Pulp Protection. Amalgam Restoration. Restoration of Vital Badly Destroyed Teeth. Direct Gold Restoration, Dental Matrices.

### **CDD322 Endodontics II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Endodontic Instrument. Cleaning and shaping the Root Canal System. Obturation of the Root canal system. Endodontic Radiography. Isolation.



**CDD323 Endodontics III**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Endodontic Periodontal Interrelationship. Surgical Endodontics. Geriatric Endodontics.

**CDD351 Comparative dentistry**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

knowledge regarding the experimental animals which can be used in dental research, how to choose the animal and how to deal with them during surgery.

**CDD415 Operative dentistry V**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Factors influencing selection of restorative materials. Attrition, Abrasion, Erosion. Failure of amalgam and composite. Leakage of restorative materials.

**CDD416 Operative dentistry VI**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Esthetic restorations and technique. Treatment of vital discolored teeth. Deep-Carious Lesions.

**CDD424 Endodontics IV**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Procedural Accidents. Retreatment of Failure. Bleaching Discolored Teeth.

**CDD425 Endodontics V**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Restoration of Endodontically Treated Teeth. Post and core systems. New technology in endodontics. Different methods of filing and obscuration. Peri-endo lesions. Microbial effect on endodontic treatment. Endodontic retreatment.

**CDD517 Operative dentistry VII**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Compomers. Operative dentistry and periodontium. Dentine adhesives. Esthetic restorations. Restoring badly destructed teeth.

**CDD518 Operative dentistry VIII**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Attrition; abrasion and erosion; failure of composite resin restorations; composite inlays; laminate veneers; treatment of vital discolored teeth; deep-carious lesions; operative dentistry and periodontium.



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

### **CDD526 Endodontics VI**

**2** Cr. Hrs. = ( **1** LCT + **0** TUT + **3** LAB + **0** OTH) – SWL = **120** – ECTS = **4**

Prerequisite - - -

using of microscope for endodontic treatment. use of laser in endodontic. sterilization and isolation. removal of fracture instruments from canals.

### **CDD527 Endodontics VII**

**2** Cr. Hrs. = ( **1** LCT + **0** TUT + **2** LAB + **0** OTH) – SWL = **105** – ECTS = **4**

Prerequisite - - -

Advanced cases of endodontics. Different systems of rotary files. Manipulation of curved canals. Treatment of periapical lesions. Treatment of non-completely formed roots.



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

## Department of Oral & Maxillofacial Surgery

### **OMS411 Oral and maxillofacial surgery I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite - - -

Basic Principles to Oral Surgery. Anatomical Consideration. Local Anaesthesia. Extraction of Teeth. The Use of Elevators in The Extraction of Teeth.

### **OMS412 Oral and maxillofacial surgery II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **ORAL AND MAXILLOFACIAL SURGERY I**

Impacted Teeth. General Anesthesia in Dentistry. - General Assessment. Preparation and Premedication.

### **OMS421 Local anesthesia**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite - - -

The student will acquire a working knowledge of commonly used local anesthetic agents, techniques. The course introduces the students to the problems of local anesthesia and indication and contraindications and the chemical structures of the anesthesia.

### **OMS513 Oral and maxillofacial surgery III**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **ORAL AND MAXILLOFACIAL SURGERY II**

Acute Infections. Deep Infections of the Face and Neck. Osteomyelitis. Cysts of the Jaws. Preprosthetic Surgery. Sulcus-Deepening Procedures. Ridge-augmentation. Re-Implantation & Transplantation of Teeth.

### **OMS514 Oral and maxillofacial surgery IV**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **ORAL AND MAXILLOFACIAL SURGERY III**

Maxillary Sinus Involvement and its Dental Implications. Surgical Correction of Protruding and Receding Jaws. Cleft Lip and Palate. Management of Medically of Compromised Patients in Oral Surgery. Oro-Facial Pain and TMJ Disorders. Affections of the Salivary Glands. Tumors of The Oral Cavity. Maxillo-Facial Injuries.

### **OMS531 tissue and bone augmentation**

1 Cr. Hrs. = (1 LCT + 0 TUT + 0 LAB + 0 OTH) – SWL = 45 – ECTS = 2

Prerequisite - - -

Introduction to tissue and bone augmentations. Different types of bone augmentations. Method to manipulate affected soft tissue. Method to manipulate affected hard tissue. Method to plant new bone and tissue parts.



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

## Department Orthodontics & Pedodontics

### OPD351 Special Care in Dentistry

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Introduction to special care in dentistry. The different types of patient require special care. When to refer the special care. Manipulation of the special care cases. How to understand and treat the handicapped patient.

### OPD431 Preventive and community dentistry I

2 Cr. Hrs. = (2 LCT + 0 TUT + 0 LAB + 0 OTH) – SWL = 90 – ECTS = 4

Prerequisite ---

Introduction, Objectives of the course. Epidemiology. Epidemiological Studies. Measuring of Dental Caries. Biostatistics, Research Methods. Dental Health Education. Epidemiology of Periodontal Diseases.

### OPD432 Preventive and community dentistry II

2 Cr. Hrs. = (2 LCT + 0 TUT + 0 LAB + 0 OTH) – SWL = 90 – ECTS = 4

Prerequisite **OPD431**

Measuring of Periodontal Diseases. Fluoride Occurrence in the environment. Prevention of Dental Caries. Prevention of Periodontal Diseases. Infection Control.

### OPD511 Orthodontics I

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Introduction to the course and Department. Craniofacial Growth and Developments. A Brief Review of the Embryology of the Stomatognathic System. Theories of Craniofacial Growth Mechanisms. Ossification, Intramembranous & Enchondral. Normal Function of the Oral Cavity. Etiology of Malocclusion. Classification of Malocclusion. The Prevalence of Malocclusion. Diagnostic Procedures (Chart Analysis). Diagnostic Aids in Orthodontics. Treatment Objectives. Treatment Planning. Study Cast Analysis. Cephalometric Radiography. Cephalometric Analysis. Cephalometric Tracing. Diagnostic Value of Cephalometrics. Cephalometric Analysis Currently Used for Diagnostic Purposes. Steiner's analysis, Tweed diagnostic triangle, Wits' appraisal of Jacobson.

### OPD512 Orthodontics II

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Orthodontic Tooth Movement (. Orthodontic Tooth Movement (. Orthodontic Tooth Movement (. Orthodontic Vs Orthopedic Forces. Timing of Orthodontic Treatment. Four phases of growth and four phases of treatment (Bjork's concept), Final Assignment. Seminar,



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

small group setting (5 –6 groups), Each student is asked to prepare a review on diagnosis and treatment planning of different classes of malocclusion, A representative of each group is asked to present a summary of what the group agreed upon as the final perception on the topic, A plenary session is conducted to formulate a final diagnostic chart and treatment planning as perceived by the 4th year class.

### **OPD521 pedodontics I**

**2** Cr. Hrs. = ( **1** LCT + **0** TUT + **2** LAB + **0** OTH) – SWL = **105** – ECTS = **4**

Prerequisite - - -

Introduction, Objectives of the course. Examination, Treatment plan, X-ray for the children. Development of the occlusion for children.

Interceptive orthodontic treatment. Behavior management of children. Preventive Orthodontic. Restorative Dentistry. Stainless Steel Crown. Formocresol Pulpotomy for Children. Advanced Restorative Dentistry.

### **OPD522 pedodontics II**

**2** Cr. Hrs. = ( **1** LCT + **0** TUT + **2** LAB + **0** OTH) – SWL = **105** – ECTS = **4**

Prerequisite **OPD521**

Early childhood Caries. Traumatic Injuries for Anterior Teeth. Pulp Therapy. Oral Surgery for the Children. Handicapped Children. Periodontal Diseases for the Children. Gingivitis, Periodontal diseases in children.



EGYPTIAN NATIONAL UNIVERSITIES

مشروع إنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

## Department of Oral medicine, Periodontology, Diagnosis & Oral Radiology

### **OMR321 Oral diagnosis I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Diagnostic process, Initial interview, Patient history, Examination techniques, Extraoral clinical examination, Oral clinical examination, Clinical and laboratory aids to diagnosis, Diseases of teeth, Diseases of lymph nodes, Diagnosis and differential diagnosis of oral ulcers, Diagnosis and differential diagnosis of red and white lesions, Biopsies, Cheilitis, Tongue changes, Orofacial pain.

### **OMR322 Oral diagnosis II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Identification of Dental, Mandible, Maxilla, Skull, Mass disaster, Sex, Race, Occupation, Habits, Genetic markers. Dental Record, Post mortum, Bite Marks, Oral Trauma, Soft tissue trauma, Bone injuries, Medical Ethics, Malpractice.

### **OMR341 laser in dentistry**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite ---

Introduction to laser in dentistry. The structure of laser and physics behinds. The different types of dental laser. The usage of dental laser. The hazard of different types of laser.

### **OMR351 INFECTION CONTROL IN DENTISTRY**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Introduction to the infection control. The importance of infection control. Methods of cross infection in dental clinics. Different methods for infection control and sterilization. Prevention of infection via lab work. Different types of detergents. Different types of autoclaves.

### **OMR411 Oral medicine I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite ---

Oral Mucosal Disease. Ulcerative, Vesicular, and Bullous Lesions. Red and White lesions of the Oral Mucosa. Pigmentation of the Oral Tissues. Diseases of the Tongue. Orofacial Pain and Temporomandibular Joint





EGYPTIAN NATIONAL UNIVERSITIES

مشروع وإنشاء الجامعات المصرية الأهلية

جامعة العلمين الدولية

ALALAMEIN INTERNATIONAL UNIVERSITY



Al Alamein  
International University

Disease. Salivary Gland Disease.

### **OMR412 Oral medicine II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 2 LAB + 0 OTH) – SWL = 105 – ECTS = 4

Prerequisite **OMR411**

Systemic Disease: Diseases of the Cardiovascular system. Diseases of the Gastrointestinal Tract. Diseases of the liver. Renal Disease. Leukocyte disorders. Red blood cell disorders. Bleeding and Clotting Disorders. Immunologic Diseases. Endocrine Disease and Dysfunction. Diabetes. Sexually Transmitted and Blood Borne Infections.

### **OMR531 Periodontics I**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite - - -

The Normal Periodontium. Classification & Epidemiology. Etiology of

Periodontal diseases. Periodontal Pathology. Treatment of Periodontal disease.

### **OMR532 Periodontics II**

2 Cr. Hrs. = (1 LCT + 0 TUT + 3 LAB + 0 OTH) – SWL = 120 – ECTS = 4

Prerequisite **OPD521**

This course addresses clinical periodontal charting, diagnosis, plaque control aids, principles of periodontal surgery, and treatment of periodontal diseases: prognosis, treatment plan. Also, this course addresses clinical gingival curettage, gingivectomy technique, periodontal flap and osseous surgery, treatment of furcation involvement, periodontal-endodontic interrelationship, mucogingival surgery, and chemotherapeutic agents.