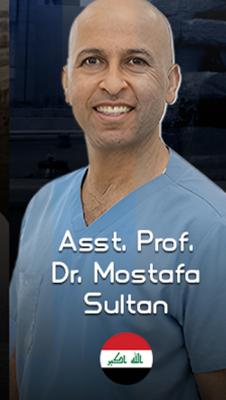
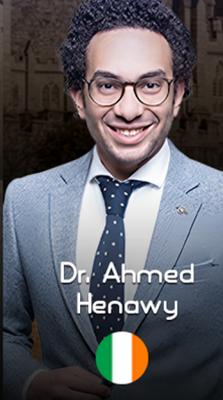
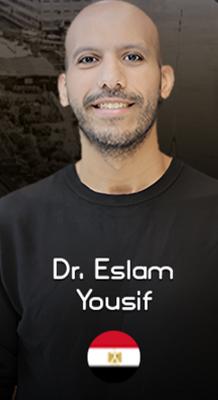
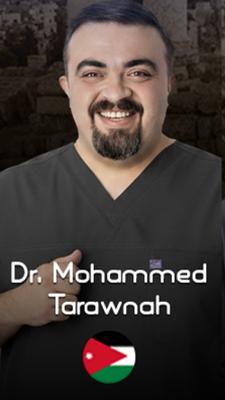


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Amin

Dr. Omar
Farouk

Dr. Bashar
Hadithi



MODULE 1

Normal and abnormal occlusion
,Development of dentition ,
etiology of malocclusion.

Topic

Day 1

Learning outcomes

1- Introduction and
Rational of orthodontic
treatment

- Orthodontic treatment
what,when,why?
- Sequela of untreated
malocclusion
- Limitation of orthodontic
treatment

2- Occlusion in
orthodontics

- Occlusion patterns
- Occlusion concept from
orthodontic perspective
- 6 keys of normal occlusion
- Functional occlusion



2H

2H



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3- Classification of malocclusion

- Nomenclature of individual tooth malposition
- Different classifications for malocclusion ,Angel, British standard incisor classification , Ackermann profit classification, etiologic classification , skeletal classification, skeletal classification

Day 2

1- Growth and development of head and neck

- Concepts and theories of growth malposition
- Growth curves
- Prenatal and postnatal growth
- Clinical implications of growth in orthodontics



2H

2H



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2-Development of normal dentition

- Eruption sequence, mechanisms
- Criteria of each dentition stage (gum pads, primary, mixed, permanent dentition)
- Arch dimensions ,spaces ,molar relation change throughout transition between dental stage



2H

3-Etiology of malocclusion

- General etiologic factors
- Local etiologic

2H



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MODULE 2

Diagnostic procedure In orthodontics

Topic

Day 1

Learning outcomes

1-Diagnosis of orthodontic problems

- Importance of diagnosis
Essential and nonessential diagnostic aids

- History , extra or al examination , intraoral examination ,functional examination, radiographic examination and problem list formulation

2-Cephalometric analysis

- Indications and limitations
- Different cephalometric analysis
- Cephalometric readings interpretation and integration in treatment planning



2H

1H



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3-Cast analysis

- Orthodontic casts criteria
- Different cephalometric analysis

Cephalometric reading
Interpretation and integration
in treatment planning ^{DEMO}



1H

4-Smile analysis

- Concepts of esthetic smile
- Parameters of smile which affects the treatment aims and planning

1H

Day 2

1-Photography in dentistry

- Basics of digital photography
- Exposure triangle
- Photography tools and accessories
- Dental photography technique ^{DEMO}

6H

2-Hands on diagnosis and photography

- Cast analysis
- Cephalometric tracing and analysis (manual and digital)

6H



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MODULE 3

Treatment planning , tooth movement

Topic

Day 1

Learning outcomes

1-Treatment planning principles

- Timing of treatment
- Facial aims of orthodontic treatments
- Occlusal aims of treatment

2-Extraction vs. non-extraction debate

- Indications, contraindications of extraction and non-extraction
- Different effects of extraction decision
- Factors affecting extraction decision
- Extraction patterns in orthodontics



2H

2H



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3-Methodes of space gaining

- Inter proximal stripping, Techniques, indications, contraindications
- Arch expansion, types, effects, indications, contraindication
- Distalization techniques, indications, contraindications
- Incisors proclination

4-Iatrogenic effects of orthodontic treatment

- orthodontics deleterious effects on face.
- bone, mucosa periodontium, enamel.
- roots, pulp

Day 2

Multidisciplinary orthodontics

1-management of hypodontia

- definition of hypodontia
- managing of congenitally missed teeth

2H



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2-adult orthodontics

- differences in treatment planing between adolescent and adult patients
- different strategies to deal with
- adult malocclusions



2H

3-orthodontics and restorative

- orthodontic planning to aid restorative procedures
- ortho and implants
- uprightning , space opening space redistribution

2H

4-orthodontics and oral surgery

- different surgical procedures used with orthodontics
- frenectomy, surgical exposure, extractions,

2H

5-orthodontics and periodontics

- role of periodontal condition in orthodontic treatment
- periodontal procedures in orthodontics

2H



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MODULE 4

Orthodontic appliances

Topic

Day 1

Learning outcomes

1-Orthodontic materials and instruments

- different brackets materials and designs
- arch wire materials
- bonding materials
- orthodontic instruments

2-Fixed appliances

- evolution of fixed appliances from edgewise to straight wire
- different brackets prescriptions
- indications and contraindications

3-Bracket placement and bonding procedure

- philosophy of bracket placement
- individualized bracket positioning
- bonding procedure



2H

2H

2H



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Day 2

1-Bracket placement and fixed appliance management hands on

- bonding protocol
- bracket placement on typodont
- direct and indirect bonding
- engaging wires
- Tigation methods
- power chains, coil springs management
- elastics



6H



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MODULE 5

Biomechanics

Topic

1-Biology of tooth movement

Day 1

Learning outcomes

- theories of tooth movement
- periodontal response to orthodontic force
- basics of biomechanics, vectors force analysis, center of rotation, center of resistance
- types of tooth movements
- moment force ratio
- Typodont Workshop and wire endings



2H

Biomechanics

10H

MODULE 6



Stages of treatment with fixed application

Topic	Day 1	Learning outcomes
2-Anchorage planning		<ul style="list-style-type: none">• types and classification of anchorage• factors affecting the anchorage• anchorage management and provision
2-Stage 1 leveling and aligning		<ul style="list-style-type: none">• aims of leveling and alignment• leveling arch wire criteria• arch wire sequence• leveling, crowding symmetric and asymmetric, occlusal plan ,high canines



2H

2H



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3- stage 2 space

- biomechanics of space consolidation
- friction vs frictionless space closure
- diast ma closure, canine retraction, enmass retraction, molar protraction
- space opening



2H

4- stage 3 finishing

- importance of finishing
- esthetic aims of finishing
- occlusal aims of finishing
- finishing techniques

2H

Day 2

1-Wire bending hands on

- basic wire bending
- uprighting springs
- cantilever arms
- closing loops
- finishing bends, 1st, 2nd, 3rd order bends

6H



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MODULE 7

MALOCCLUSION PART 1 and IMPACTIONS

Topic

1-class I
malocclusions

Day 1

Learning outcomes

- diagnosis of all malocclusion
- crowding, spacing, ectopic eruption, individual tooth crossbite
- bimaxillary protrusion

Day 2

1- Impactions

- etiology
- diagnosis and localization of impacted teeth
- factors affecting the decision of treatment
- interceptive procedures
- management of impacted canines
- management of impacted centrals



2H

2H



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MODULE 8



MALOCCLUSION PART 2

Topic	Day 1	Learning outcomes	
1-Crossbite		<ul style="list-style-type: none">● diagnosis● etiology● growing patient● non growing patients	 2H
2-Openbite		<ul style="list-style-type: none">● diagnosis● etiology● growing patient● non growing patients	2H

Day 2



2H

- diagnosis
- etiology
- growing patient
- non growing patients

- Pallista loop
- Intrusion and extrusion arches



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MODULE 9

Management of malocclusions CLASS 2

Topic

1-Class II div 1
malocclusion

2-Class II div 2
malocclusion

Day 1

Learning outcomes

- Diagnosis
- Etiology
- growth modification
- camouflage

- Diagnosis
- Etiology
- growth modification
- camouflage 



6H

Day 2

1-Bracket placement and fixed appliance management hands on

- bonding protocol
- bracket placement on typodont
- direct and indirect bonding
- engaging wires
- Tigation methods
- power chains, coil springs management
- elastics



6H



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MODULE 10

Management of malocclusions CLASS 3

Topic

Day 1

1-CI III malocclusion

Learning outcomes

- Diagnosis
- Etiology
- growth modification
- camouflage

Day 2

2-mangment of malocclusion in mixed dentetion

- space management
- arch developing
- interseptive orthodontic treatment
- management of skeletal problems

3-habit breaking

- habits related to malocclusion
- habit breaking appliances



6H

4H

3H



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MODULE 11



Advanced orthodontic

Topic

1-TAD S

Day 1

Learning outcomes

- history and evolution
- indications
- design
- surgical technique
- clinical uses
- failure of Tads



6H

Day 2

2-self ligating appliances

- evolution of self-ligating
- philosophy of self-ligating appliances
- Damon appliance

6H



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MODULE 12

Orthognathic surgery and cleft lip and palate

Topic

1-Orthognathic surgery

Day 1

Learning outcomes

- Introduction
- Clinical evaluation
- Radiological evaluation
- Need for orthognathic surgery
- Teamwork
- Pre-surgical orthodontics
- Post-surgical orthodontics
- Types
- Retention



7H



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Day 2

2-Cleft lip and palate

- Introduction
- Types
- Etiology
- Clinical evaluation
- Radiological evaluation
- Management
- Teamwork
- Orthodontic phases of treatment



6H

MODULE 13

Digital Orthodontics & CLEAR ALIGNER

Topic

Day 1+2

Learning outcomes

1-Clear Aligners

- history and evolution
- Indications
- biomechanics



6H



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MODULE 14

Retention & Relapse

Topic

Day 1+2

1-Retention & Relapse

Learning outcomes

- PRICIPLES OF RETENTION
- RETENTION AFTER CLASS II CORRECTION
- RETENTION AFTER CLASS III CORRECTION
- RETENTION AFTER DEEP BITE CORRECTION
- RETENTION AFTER ANTERIOR OPEN BITE CORRECTION
- RETENTION OF LOWER INCISOR ALIGNMENT
- TIMING OF RETENTION: SUMMARY
- MOST ADVANCED RETENTION PROTOCOL



12H



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MODULE 15

LASER & Anchorage Control

Topic

Laser Management in Orthodontics

Day 1

Learning outcomes

- Diagnosis of gummy smile
- Different modalities to correct gummy smile
- Surgery, intrusion,
- Lip repositioning, botox gingivectomy, esthetic crown lengthning
- Management of gummy smile



6H

Day 2

- Absolute Anchorage Control
- History and evolution
- Indication
- Design
- Surgical Techniques
- Clinical Uses
- Failure of Control

6H



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MODULE 16

LASER & Anchorage Control

Topic	Day 1	Learning outcomes	
Review		<ul style="list-style-type: none">● Case Presentation Review	 6H
Day 2			
Final Exam		<ul style="list-style-type: none">● Final Exam	2H