

PFOC10

PROFESSIONAL COURSE OF FIXED ORTHODONTIC IS IN SULAYMANIYAH



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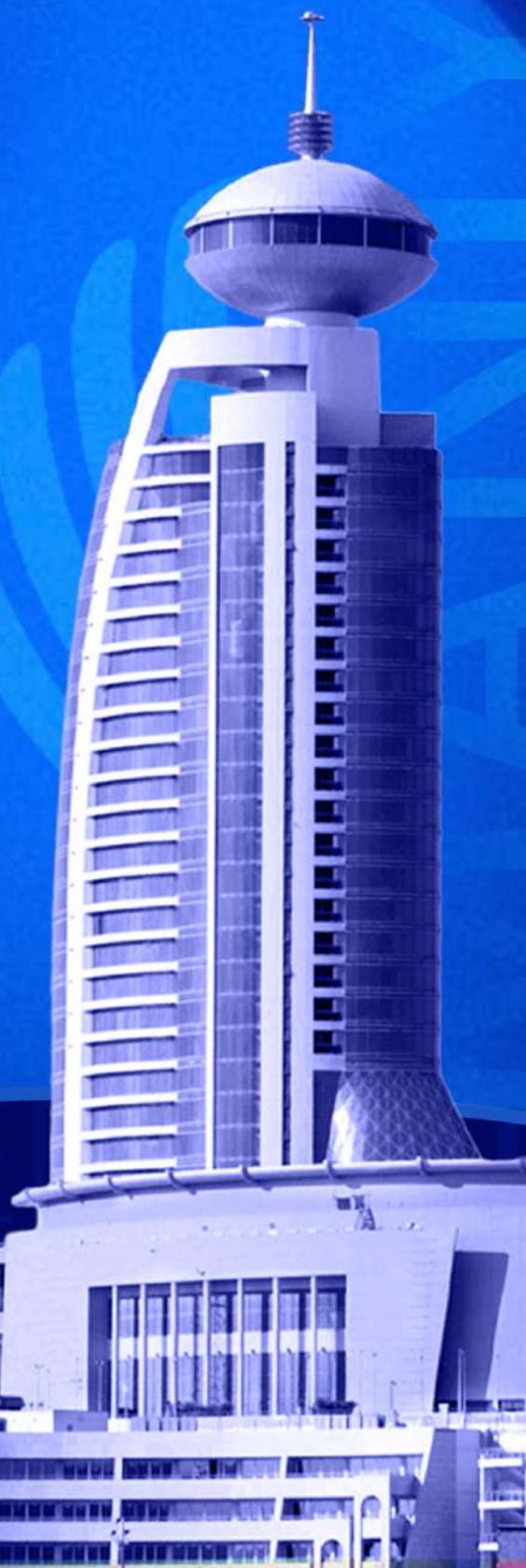
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PROFESSIONAL COURSE OF FIXED
ORTHODONTIC
Module 1

DAY1

1-Introduction and regional of orthodontic treatment

- Orthodontic treatment what,when, why?
- Sequela ofuntreated malocclusion
- limitation oforthodontic treatment

2-Occlusion in orthodontics

Occlusion patterns

- Occlusionconcept from orthodontic perspective
- 6 keys ofnormal occlusion
- functional occlusion

3-Classification of malocclusion

- No menclature of individual tooth malposiotion
- different classificationfor malocclusion, angel,
British STANDARD INCISORCLASSIFICATION,
ACKRYMAN PROFIT CLASSIFICATION, ETIOLOGIC
CLASSIFICATION, SKELETALCLASSIFICATION





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Module 1

DAY2

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

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

3-Etiology of malocclusion

- **General etiologic factors**
- **Local etiologic**





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Module 2

DAY1

1-Diagnosis of orthodontic problems

Importance of diagnosis

- Essential and nonessential diagnostic aids
- History, extra oral examination, intraoral examination, functional examination, radiographic examination and problem list formulation

3-Cast Analysis

- Orthodontic casts criteria

4-Smile Analysis

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

2-Cephalometric analysis

Indications and limitations

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





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Module 2

DAY 2

Photography in Dentistry

- Basics of digital photography
- Exposure triangle
- Photography tools and accessories
- Dental Photography Technique

Hands On Diagnosis and photography

- Cast Analysis
- Cephalometric tracing and analysis (Manual and digital)



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Module 3

DAY1

1-Treatment planning principles

Timing of treatment

- Facial aims of orthodontic treatment
- Occlusal aims of treatment

2-Extraction Vs. Non Extraction debate

Indication, contraindication of extraction and non extraction

- Different effects of extraction decision
- Factors affecting extraction decisions
- Extraction patterns in orthodontics

DAY2

3-Methods of space gaining

- Interproximal stripping, techniques indications, contraindications.
- Arch expansion, types, effects, indications, contraindication
- Distalization techniques, indications, contraindications
- Incisors proclination





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Module 4

DAY1

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 straightwire
- different brackets prescriptions
- Indications and contraindications

DAY2

4-Bracket placement and fixed appliance management hands on

- Bonding protocol
- Bracket placement on typodont
- Direct and indirect bonding
- engaging wires
- Tigation methods
- Powerchains, coil springs management
- Elastics

3-Bracket placement and bonding procedure

- Philosophy of bracket placement
- individualized bracket positioning
- Bonding procedure





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Module 5

DAY1

1-Biology of tooth movement

- Theories of tooth movement
- Periodontal response to orthodontic force

DAY1

2-BIOMECHANICS

- **BASICS OF BIOMECHANICS, VECTORS FORCE ANALYSIS, CENTER OF ROTATION, CENTER OF RESISTANCE**
- **TYPES OF TOOTH MOVEMENTS**
 - **MOMENT FORCERATION**
- **TYPODONT WORKSHOP AND WIRE BENDINGS**





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Module 6

DAY1

1-Anchorage planning

- Types and classification of anchorage
- Factors affecting the anchorage
- Anchorage management and provision

3-Stage 2 Space

- Biomechanics of space consolidation
- Friction vs frictionless space closure
- diastema closure, canine retraction, enmass retraction, molar protraction
- Space opening

5-Wire bending hands on

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

2-Stage 1 leveling and aligning

- Aims of leveling and alignment
- Leveling arch wire criteria
- archwire sequence
- Leveling, crowding symmetric and asymmetric, occlusal plan, high canines

4-Stage 3 Finishing

- Importance of finishing
- esthetic aims of finishing
- occlusal aims of finishing
- finishing techniques





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Module 6

DAY2

**GETTING STARTED WITH (FIRST GROUP): CASE SELECTION,
EXAMINATION, RECORDS, DIAGNOSIS & TREATMENT PLANNING**





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Module 7

DAY1

1- Class I Malocclusion

- Diagnosis of CI malocclusion
- Crowding, spacing, ectopic eruption
- Individual tooth crossbite
- Bimaxillary protrusion

2-Management of malposed teeth

- Etiology
- Diagnosis and localization of malposed teeth
- Factors affecting the decision of treatment
- interceptive procedures
- management of malposed canines
- management of malposed centrals

Day2

Getting Started with (Second Group) :
Case selection,
Examination, Records, Diagnosis
& Treatment planning





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Module 8

DAY1

2-Class II Div1 Malocclusion

- Diagnosis
- Etiology
- Growth Modification
- Camouflage

2-Class II Div2 Malocclusion

- Diagnosis
- Etiology
- Growth Modification
- Camouflage

Day 2

**Patient follow up and training,
discussion, debate**





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Module 9

DAY1

1-Class II Malocclusion

- Diagnosis
- Etiology
- Growth Modification
- Camouflage

3-Open Bite

- Diagnosis
- Etiology
- Growing patient
- Non Growing patient

DAY2

2-Cross Bite

- Diagnosis
- Etiology
- Growing patient
- Non Growing patient

•Diagnosis

- Etiology
- Growing patient
- Non Growing patient

5-Smile Correction

- Orthodontic smile design Management





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Module 10

DAY1

1-Management of hypodontia

- Definition of hypodontia
- Managing of congenitally missed teeth

2-Adult orthodontics

- Differences in treatment planning between adolescent and adult patients
- Different strategies to deal with adult malocclusions

3-Orthodontics and restorative

- Orthodontic planning to aid restorative procedures
- Ortho and implants
- Uprighting, space opening, space redistribution

4-Orthodontics and oral surgery

- Different surgical procedures used with orthodontics
- Frenectomy, surgical exposure extractions

5-Orthodontics and periodontics

- Role of periodontal condition in orthodontic treatment
- Periodontal procedures in orthodontics





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Module 10

DAY1

Habit Breaking

Diagnosis & Treatment
Habits related to malocclusion
Habit breaking appliances

Iatrogenic effects of orthodontic treatment

Orthodontic deleterious effects on face
Bone, Mucosa periodontium, enamel
Roots, Pulp

DAY2

**Patient follow up
discussion, trainings, and quiz.**

Self Ligating appliances

Evolution of self ligating
Philosophy of self ligating appliances
DAMON appliances





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Module 11

DAY1

6-Retention

- Principles of retention
- Retention of class II Correction
- Retention of class III Correction
- Retention of deep bite correction

- Retention of anterior open bite correction
- Retention of Lower incisor alignment
- Timing of retention: Summary
- Most advanced retention protocol

DAY2

Patient follow up and discussion, trainings, and quiz





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Module 12

DAY1

Digital Orthodontics

Indirect Bonding and
customized brackets

DAY2

Patient follow up and
discussion, trainings.





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Module 13

DAY1

Absolute Anchorage Control

History and evolution

Indication

Design

Surgical Techniques

Clinical Uses

Failure of Control

DAY2

Final Exam





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