



Royal Dentist Institute

*Membership in Orthodontics*

*Royal College of Surgeons of Edinburgh*

- \* Clinical training*
- \* Hands on workshops*
- \* Face to face lectures*





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## Royal Dentists Center

**N.B. This guide is prepared in advance of the academic year. Therefore, details of the program are subject to change.**



## Introduction

### The best of everything

Royal Dentists Institute is providing you with the opportunity to enroll in the leading postgraduate dental training program, be eligible to enter the specialty examination conducted by the Royal College of Surgeons of Edinburgh and keep working at your job normally.

### Our Aim

- \* To provide an innovative program, this will enhance current knowledge and clinical skills in aesthetic restorative dentistry.
- \* To present sound academic theory and high quality practical training in aesthetic concepts by world class mentors
- \* To provide students with the confidence and ability to enhance their current clinical practice by incorporating the latest advances in technology and research ensuring aesthetic, functional and long lasting restorative care
- \* To deliver learning using the latest technology enabling students to access the course regardless of place whilst maintaining their dental practices

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## Royal Dentist Institute

We here at Royal Dentists institute have more than one postgraduate dental training programs one in restorative dentistry and the other in Orthodontics. Both programs offer the necessary training for entering the examination for the Membership in Restorative Dentistry (M Endo, M Perio and M Prosth.) from the Royal College of Surgeons of Edinburgh and Membership in Orthodontics (M Orth) from the Royal College of Surgeons of Edinburgh. And we have been doing so since 2011, with 2 branches in Cairo, Egypt, 1 in Alexandria, Egypt, 1 in El-Khartoum, Sudan, 1 in Sydney, Australia and 1 in Dubai, United Arab Emirates.

Royal Dentists Institute has reached distant levels of quality making us the largest training center in the region, with more than 40 candidates in both programs. Also these programs are under the supervision of the (F) Regional Dental Adviser of the Royal College of Surgeons of Edinburgh and examiners with the Royal College of Surgeons of Edinburgh.

### The Royal College of Surgeons of Edinburgh

The Royal College of Surgeons of Edinburgh (RCSEd) dates back to 1505 and is an organization dedicated to the pursuit of excellence and advancement in surgical and dental practice, through its interest in education, training and examinations, its liaison with external medical bodies and representation of the modern surgical and dental workforce.

With over 22,500 Fellows, Members and Affiliates based in over 100 countries worldwide and with a newly launched International School of Surgery, RCSEd today is truly a modern international network.

The College prides itself on its reputation for friendliness and approachability combined with innovation and prestige, and the individual attention given to all our College Fellows, Members, Affiliates and guests.



## Syllabus Overview

### *Module 1:*

#### Foundations of 21<sup>st</sup>

#### Century Practice

1. Dental Anatomy
2. Basic Disease Processes
3. Current Concepts in Diagnosis
4. Foundational Occlusion
5. Foundations of Material Science
6. Imaging and Radiology

### *Module 2:*

#### Research Methods

1. Library Skills
2. Epidemiology and Study Design
3. Critical Appraisal
4. Dissertation Skills
5. Designing a Study
6. Ethics
7. Evidence Based Practice

### *Module 3:*

#### Pre-treatment

1. Clinical Photography
2. Comprehensive Patient Assessment
5. Patient Communication
6. Record Keeping

#### 7. Treatment planning

#### 8. Practice Management

#### 9. Medico-Legal Aspects

#### 10. Treatment Presentation

### *Module 4:*

#### Classification of malocclusion

1. Diagnosis
2. Classification
3. Class I
4. Class II div 1
5. Class II div 2
6. Class III

### *Module 5:*

#### Etiology

1. Etiology of malocclusion
2. Digital cephalometry

### *Module 6:*

#### Appliances

1. Removable appliance
2. Orthodontic instruments
3. Fixed appliance



### **Module 7:**

#### **Treatment (1)**

1. Interceptive Orthodontics
2. Root resorption
3. Oral health / Fluoride
4. Miniscrew implants (TADs)
5. Imaging 2D, 3D
6. CBCT and radiation safety
7. Intra-oral scanners

### **Module 8:**

#### **Growth and development**

1. Embryology
2. Growth and its relevance to orthodontics
3. Genetics in Orthodontics
4. Development of normal occlusion
5. Management of the Developing (mixed) dentition

### **Module 9:**

#### **Patients**

1. Medically compromised patients
2. Syndromes
3. Obstructive Sleep apnea
4. Ectopic eruption
5. Primary failure
6. Supernumerary
7. Transposition

### **Module 10:**

#### **INTER-DISPLINARY ORTHODONTICS**

1. Ortho-implant
2. Ortho-restorative
3. Ortho-perio

### **Module 11:**

#### **Treatment (2)**

1. Adhesives and cements & bonding in Ortho
2. Impression materials and technique
3. Adult orthodontics
4. Lateral Ceph.
5. Case assessment
6. Indices
7. Impacted Canine
8. Hypodontia
9. Principles of Biomechanics

### **Module 12:**

#### **Malocclusions**

1. Anterior open bite / high angle
2. Deep overbite/ low angle
3. Asymmetry
4. Gummy smile

### **Module 13:**

#### **Advanced Treatment planning**

1. Anchorage
2. Extraction and facial profile
3. Extraction vs Non-extraction
4. Space analysis
5. Treatment of Class II / III
6. Extraction of specific teeth
7. Retention
8. Stability
9. Relapse

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### ***Module 14:***

**Treatment of skeletal problems in children and adolescent**

- 1. Functional appliance**
- 2. Headgear**
- 3. Protraction HG (facemask)**
- 4. Maxillary expansion**

### ***Module 15:***

**Comprehensive treatment**

- 1. First stage: Alignment and leveling**
- 2. Second stage: Correction of molar relation and space closure.**
- 3. Third stage: Finishing**
- 4. Miniscrew implants (TADs)**

### ***Module 16:***

**Orthognathic surgery**

- 1. Diagnosis and treatment planning**
- 2. Surgical therapy and techniques**
- 3. Orthognathic surgery**
- 4. Distraction osteogenesis**
- 5. Speeding up tooth movement (e.g.: corticotomy)**
- 6. Cleft lip & palate**

### ***Module 17:***

**Exam preparation**

- 1. Written exam preparation**
- 2. Oral exam preparation**
- 3. Case presentation exam preparation**



### *Hands on workshops:*

#### *Hands on 1:*

- Impression taking.
- Facebow records.
- centric relation record taking, including the fabrication and programming of a Lucia Jig, lateral and protrusive records, programming of a semi-adjustable articulator, fabrication of an anterior guidance table.

#### *Hands on 2:*

- Dental photography workshop.
- Camera settings, Clinical photography protocols.
- Portraits, smile analysis, macro photography, shade photos

#### *Hands on 3:*

- wire binding (1)

#### *Hands on 4:*

- wire binding (2)

#### *Hands on 5:*

- wire binding (3)

#### *Hands on 6:*

- wire binding (4)

#### *Hands on 7:*

- wire binding (5)



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## Methods of Study& Assessment

### Methods of Study

#### **Clinical Training**

The majority of the learning will be conducted by clinical training. Patient treatment will be conducted by the candidate in accordance with the treatment plan and supervised by our trainers.

#### **Ownership**

The program is designed to encourage the student to take responsibility for his/her own learning. The emphasis of it is on a self-directed learning approach.

#### **Hands on workshops**

Workshops will be conducted on different techniques, instruments and materials, which will be supplemented by clinical demonstrations when appropriate.

#### **Lectures**

Face to face lectures will be conducted to cover topics from the program

#### **Research**

Candidates will have to conduct multiple researches throughout the training duration.

### Methods of Assessment

\*Assessments take the form of short answer questions, structured essays, clinical case reports and treatment planning exercises.

\*Clinical details and photographic evidence of cases treated form the basis of case reports.

\*Structured essays and short answer questions are posted online or during a lecture and students normally have two weeks to complete and submit.

\*Single best answer and reflective questions are used throughout the modules as a form of self-assessment.

\* Full examination setting will be conducted every term, which include written, oral and case presentation.

\* The combined score of the 2 term examinations must be a pass mark for the candidate to proceed to the next year.



## *Admission Criteria*

### *Admission Criteria*

Candidates must be able to satisfy the general admissions criteria of both the Royal College of Surgeons of Edinburgh and Royal Dentists Institute.

### **Applicants must:**

\*Provide evidence of their primary dental qualification from a recognized institution.

\*Have at least 1 year recent experience in general professional dental practice.

\*Where the first language is not English, candidates must be proficient in the English language to the satisfaction of the interview board OR produce a copy of either an IELTS certificate (score must be no less than 6.5, with no less than 6 in the written component) or a TOEFL certificate (score) must be no less than 575 on the paper-based test, 230 on the computer-based test or 90 on the iBT test) during the first 2 years of training, if the candidate fail to produce this certificate he/she might be dismissed from the program.

\*Provide at least 1 professional reference - must be signed and dated.

\*Provide copies (not originals) of degree certificates and official academic transcripts of previous study showing the subjects taken and grades obtained. (If these are in a language other than English official translations must be provided).

\* Updated C.V. should be sent to the email of Royal Dentists Institute, indicating which specialty you are interested to join.

\* Application fees receipt and filled application form should be sent back to Royal Dentists Institute, so an interview date can be scheduled.