



Royal Dentist Institute

Membership in Restorative Dentistry

Royal College of Surgeons of Edinburgh

** Membership in Periodontics*

**Membership in Endodontics*

** Membership in Prosthodontics*





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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.

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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

Royal Dentists Center



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 21st

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:

Basic Restorative Dentistry

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

7. Treatment planning

8. Preventive dentistry

9. Tooth Surface Loss

10. Practice Management

11. Medico-Legal Aspects

12. Treatment Presentation

Module 4:

Advanced Restorative Dentistry

1. Complex treatment planning
2. Adhesive dentistry
3. Occlusal analysis and splints
4. Articulators

Module 5:

Aesthetics

1. Anterior Direct Composites
2. Bleaching
3. Direct Composite
4. Inlays/Onlays

Module 6:

Basic Endodontic

1. Diagnosis and examination
2. Diagnostic Aids
3. Access cavity, preparation and filling
4. Restoration of root canal treated teeth



5. Root canal retreatment
6. Surgical Root canal treatment
7. Vital Pulp Therapy
8. Trauma

Module 7:

Basic prosthodontics

1. Materials
2. Laboratory procedures
3. Principles of tooth preparations
4. Tissue management
5. Impression materials and techniques
& digital impressions
6. Basic smile design
7. Provisional restorations
8. Try in and cementation
9. Veneers & bonded crowns
10. Resin bonded restoration
11. Introduction to Implants
12. Diagnosis of complete dentures
13. Impression of complete dentures
14. Anatomical landmarks of complete
Dentures
15. Jaw relation for complete denture
16. Try-in & delivery of complete denture
17. Relining, rebasing and repair
18. Laboratory Procedures
19. Single, Immediate & Copy denture
20. Flat & Flabby Ridge
21. Introduction to removable partial denture

Module 8:

Basic Periodontics

1. Healthy periodontium
2. Classification of gingival diseases
3. Chronic periodontitis
4. Aggressive periodontitis
5. Acute necrotizing ulcerative diseases
6. Safety Considerations &
7. Periodontal abscess
8. Periodontal conditions of endodontic origin
9. Microbiology of periodontal diseases
10. Pathogenesis of periodontal disease
11. Examination and treatment planning
12. Mechanical and chemical plaque control
13. Non-surgical periodontal treatment
14. Introduction to implant dentistry



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Candidates will choose one of the following modules (9, 10 or 11) as their Major:

Module 9:

Advanced Endodontics:

1. Diagnosis and treatment planning
2. Non-odontogenic toothache.
3. Infection control and sterilization.
4. Instruments, materials and devices.
5. Cleaning and shaping and obturation
6. Dentin pulp complex.
7. Pulp reaction to caries and stimulation.
8. Periapical pathology.
9. Microbiology treatment of Endodontic infections.
10. Non-surgical retreatment.
11. Endo-perio lesions.
12. Endodontic pharmacology.
13. Local anesthesia.
14. Periradicular surgery.

Module 10:

Advanced Periodontics:

1. Diagnosis and treatment planning
2. Surgical therapy and techniques
3. Plastic periodontal therapy
4. Rational of dental implants
5. Implants vs. Natural teeth
6. Implant parts, design, and configurations.
7. Bone biology
8. Osseointegration and rigid fixation
9. Indications and contraindications of dental implants.

10. Prosthetic options for implant patients

11. Impression techniques for implants

12. Radiographic examination of an implant patient

13. Placement protocols/ Loading protocols

14. Treatment planning for partial and complete edentulous patients

15. Principles of surgical flaps

16. Maintenance of dental implants

17. Anterior tooth replacement

18. Biomechanics in dental implants

19. Guided bone regeneration: Types of bone/ barrier membranes

20. Implant placement protocols

21. Maxillary air sinus anatomy/ Sinus lifting procedures

22. Type and forms of ridge defects/ Ridge augmentation

23. Soft tissue esthetics around dental implants

24. Increasing the volume of available bone

25. Implant complications and failures

Module 11:

Advanced Prosthodontics:

1. Diagnosis and treatment planning
2. Mouth preparation
3. Shade selection and colour
4. Advanced ceramics
5. Veneers
6. 3D smile Design
7. Waxing up and patient presentation
8. Advanced Implant Prosthodontics
9. Repair, removal and failures.
10. Rehabilitation



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|---|---|
| 11. Flat ridge | 22. Direct and in-direct retainers |
| 12. Flabby ridge | 23. Abutments and mouth preparations |
| 13. Single denture | 24. Surveying |
| 14. Copy and immediate denture | 25. Impression techniques for RPD |
| 15. Mandibular movements | 26. Relining & rebasing of RPD |
| 16. Advanced occlusion | 27. Different types and indication of RPD |
| 17. Classification of removable partial dentures (RPD) | 28. Maxillofacial (extraoral) |
| 18. Principles of partial denture design | 29. Maxillofacial (intraoral) |
| 19. Components of RPD-denture base and artificial teeth | 30. Laboratory techniques |
| 20. Connectors (minor and major) | |
| 21. Rests and rests seats | |

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:

- 2D smile design.
- Basic PowerPoint, endnote, Photoshop.
- Dentofacial aesthetic workshop.
- Smile analysis and design & Case studies

Hands on 4:

- Aesthetic wax up and 3D mock up.
- Jigs and guides for mock ups and preparation guides

Hands on 5:

- Rubber dam. Clamp selection, placement techniques.
- Ancillary isolation: additional clamps, Teflon tape, retraction cord.
- Isolite and optragate.
- Chemical astringents

Hands on 6:

- Access cavity preparation.
- Rotary root canal preparation.
- Advanced obturation techniques.

Hands on 7:

- Posterior occlusal resin composite restorations; cavity preparation, layered application; finishing and polishing techniques.
- Posterior restoration involving one proximal wall; use of sectional matrices.
- Complex posterior restorations – restoration of missing cuspal anatomy.



Hands on 8:

- class IV restoration; planning, including the use of silicone keys, shade selection, material selection, cavity preparation, including the management of the critical inter-proximal region, layered application of resin composite, finishing and polishing techniques.
- Diastema closure techniques.
- Management of the discoloured anterior tooth using resin composite.
- Anterior direct composite veneers; planning for alteration in the length of the incisal edge.

Hands on 9:

- Tools and techniques for precision veneer preparations; minimally invasive preparation designs to more aggressive preparation forms, including the use of diagnostic wax ups and preparation guides to assist with appropriate levels of tooth reduction.
- Techniques for provisional fabrication.
- Impression taking.
- Try-in; substrate preparation

Hands on 10:

- Preparation of a full gold crown, all ceramic posterior crown, porcelain fused to metal crown to a specific prescription.
- Construction of single unit provisional restorations.
- Conventional and adhesive bridge preparations.
- Conventional and adhesive onlay preparations.
- Occlusal veneer preparations.
- Inlay preparations (conventional and adhesive).

Hands on 11:

- Surgical hands-on workshop - single implant placement with surgical guide. Implant placement on prosthetic models.
- Instruction on reading and interpreting 3D treatment planning and execution.
- Abutment selection.
- Open and Closed tray impression techniques.
- Abutment level impression taking.
- Single tooth replacement
 - impression taking and prosthetic delivery.
- Prosthodontics workshop 2 - multiple units
 - impression taking and prosthetic delivery.
- Making a provisional crown on implants
 - understanding proper emergence profile development.
- Customised Impression taking.
- Cementation technique(s).
- Finishing and polishing

Hands on 12:

- Records: impressions, facebow and MMR (IP and RCP)
- Mounting of study models
- Aesthetic wax up.
- Construction of canine riser restorations.
- Management of localized anterior maxillary wear; direct resin build-up of wear of 6 anterior maxillary teeth using a silicone key.
- Indirect lingual veneers. Preparation, design, material selection, impression techniques.
- Adhesive onlay preparations and occlusal veneers; management of posterior wear.

Hands on 13:

- Flap designs.
- suturing techniques.
- Advanced periodontal treatment.

Hands on 14:

- Root canal retreatment.
- Broken instrument removal.
- Post removal.



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.