Advanced Clinical Training Program (ACTP)

Program Overview

The Advanced Clinical Training Program (ACTP) at the Faculty of Dentistry, The British University in Egypt (BUE) offers an exceptional opportunity for dentists to enhance their clinical competence through short-term, intensive, and multidisciplinary training.
Developed to bridge the gap between academic learning and advanced clinical practice, the program provides hands-on experience supported by focused theoretical instruction across a range of dental specialties.

Designed for international practitioners, the ACTP fosters a dynamic learning environment that integrates evidence-based clinical techniques, ethical practice, and exposure to modern technologies in dentistry. Participants benefit from direct mentorship, small-group supervision, and access to BUE's state-of-the-art clinical facilities — ensuring a rich and transformative professional experience.

Vision

To be a regional leader and international destination for short-term, intensive dental clinical training, empowering practitioners to strengthen their skills across diverse specialties and to deliver high-quality, evidence-based, and patient-centered care aligned with global standards.

Mission

The Advanced Clinical Training Program (ACTP) at the Faculty of Dentistry, The British University in Egypt, is committed to advancing professional competence through intensive, hands-on clinical training supported by focused theoretical learning.

It aims to:

- Provide short-term, structured clinical experiences across diverse dental specialties.
- Promote evidence-based, ethical, and patient-centered practice.
- Cultivate professional excellence through mentorship, reflection, and collaboration
- Encourage the integration of digital technologies and contemporary clinical approaches.
- Foster international exchange and continuing professional development within a dynamic, multidisciplinary learning environment.

Program Structure

The Advanced Clinical Training Program (ACTP) is primarily a **clinical, hands-on program** designed to strengthen practical skills through supervised experience in real clinical settings. Each module runs over one month (four weeks) and includes three clinical sessions per week, providing participants with intensive exposure to a range of clinical procedures and patient cases.

A **supportive theoretical component** complements clinical training, ensuring integration of evidence-based knowledge and clinical reasoning. It consists of one lecture per week for four weeks focusing on key principles, treatment planning, and case discussions relevant to the specialty.

"The program places strong emphasis on clinical competence and reflective practice, ensuring participants gain confidence and proficiency in independent patient care"

Why Join the ACTP?

- **Primarily clinical and hands-on —** gain intensive, supervised experience in real patient settings.
- **Short-term and focused —** one month of concentrated skill development tailored for working dentists.
- **Internationally aligned and ADA CERP–accredited** — ensuring global recognition of training standards.
- **Expert mentorship —** direct supervision and feedback from highly qualified clinicians and faculty.
- **Small group learning —** personalized guidance, case discussions, and peer collaboration.
- **Flexible hybrid model —** integrates clinical sessions with supportive theoretical lectures.
- **Prestigious certification —** Certificate of Completion issued by the Faculty of Dentistry, BUE.

Program Specialties

The **Advanced Clinical Training Programs (ACTPs)** are offered through the following departments within the **Faculty of Dentistry, The British University in Egypt (BUE)**. Each program provides **intensive, hands-on clinical experience** supported by focused theoretical instruction, ensuring alignment with global standards of postgraduate dental training.

Specialties Offered

- Endodontics
- Esthetic Dentistry
- Restorative Dentistry
- Prosthodontics
- Orthodontics
- Oral and Maxillofacial Surgery (OMFS)
- Periodontics
- Implantology
- Pediatric Dentistry
- Oral Radiology
- Comprehensive Care
- Artificial Intelligence in Dentistry

"Participants may enroll in one or more specialties based on their professional interests and career goals."

Evaluation and Certification Criteria

Participants will be assessed according to the following criteria for receiving a Certificate of Completion.

- Minimum attendance and participation (≥75%)
- Completion of the required number of clinical cases/procedures (≥75%)
- Satisfactory performance in final assessment
- Feedback survey

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FACULTY OF DENTISTRY

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ENDODONTICS

Mastering Clinical Endodontics

Program Director: **Prof. Engy Kataia**

Learning Outcomes:

1. The art and science of diagnosis.

2. Isolation in endodontics

3. Properly access pulp chamber and locate the canals in multiple difficult situations.

4. Different types of access cavity designs

5. Negotiate narrow and calcified canals

6. Locate hidden canals

7. Prepare severely curved canals

8. 3D sealing of root canal system

Theoretical Content

1. The art and science of diagnosis

2. Access cavity designs, pre-access tips, conventional and recent access cavity designs.

3. Application of therapeutics in endodontics

4. Engine driven instrumentation and 3-D obturation

Case Requirements

Conventional root canal treatment from diagnosis to obturation (6 molars)

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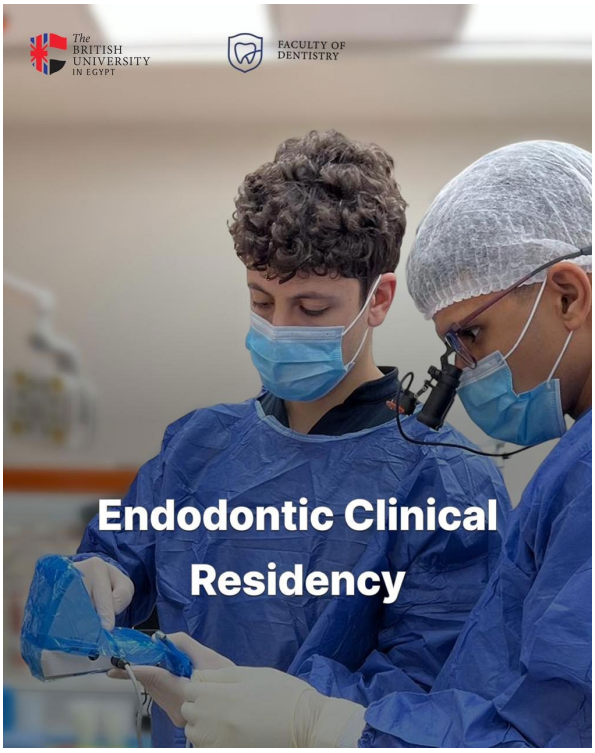

The Endodontic Department has a very innovative clinic that offers specialized dental care, meticulously designed to elevate patient comfort and clinical outcomes. Every operatory is a testament to cutting-edge technology, anchored by powerful surgical operating microscopes that provide unparalleled magnification and illumination, ensuring the highest level of diagnostic accuracy and procedural precision. Furthermore, the clinic utilizes integrated digital radiography for detailed, high-resolution imaging, allowing for superior treatment planning and navigation of complex root canal anatomies. The facility is equipped with specialized instrumentation like apex locators and advanced rotary systems all integrated into a soothing, streamlined environment that transforms the typical dental training into an efficient, low-stress experience centered entirely on achieving a high level of clinical education and practice

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PROSTHODONTICS (FIXED, REMOVABLE, AESTHETIC)

Treating Complex Edentulous Cases

Program Director: **Prof. Marwa Sabet**

Learning Outcomes:

1. Management of flat ridge cases
2. Management of flabby ridge cases
3. Management of immediate denture cases
4. Management of single denture cases.

Theoretical Content:

1. Flat ridge
2. Flabby ridge
3. Intermediate denture
4. Single denture.

Case Requirements:

1. Case for single denture
2. Case for immediate denture
3. Impression for flat and flabby ridges

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IMPLANTOLOGY

Tooth & Implant Supported Overdenture

Program Director: **Prof. Marwa Sabet**

Learning Outcomes:

1. Diagnosis and case selection for tooth supported overdenture.

2.Clinical steps for tooth supported overdenture.

3.Diagnosis and case selection for implant supported overdenture.

4. Clinical steps for implants supported overdenture.

5. Pick up procedures.

Theoretical Content:

1. Diagnosis and case selection for tooth supported overdenture.

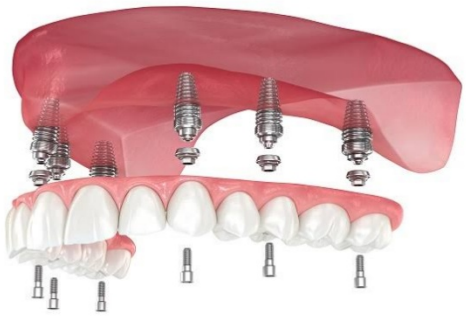
2. Clinical steps for tooth supported overdenture.

3. Diagnosis and case selection for implant supported overdenture.

4. Clinical steps for implants supported overdenture.

Case Requirements:

1. Tooth supported overdenture (1)
2. Implant supported overdenture (1)



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DIGITAL DENTISTRY & DIAGNOSTICS

Digital Approaches in Removable Prosthodontics

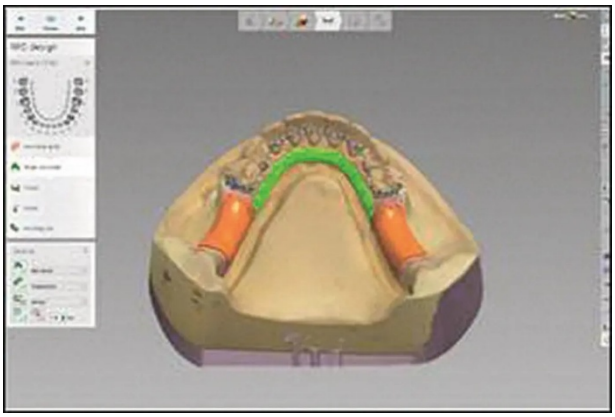
Program Director: **Prof. Marwa Sabet**

Learning Outcomes:

1. Differentiate between different scanning methods
2. Design complete denture digitally
3. Design partial denture digitally
4. Knowing the advantages of the digital methods over the conventional ones.

Theoretical Content:

1. Different scanning methods
2. Complete denture designing
3. Partial denture designing
4. Different manufacturing methods



Case Requirements

1. Digital designing of complete denture case (1)
2. Digital designing of partial denture case (1)

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The Removable Prosthodontics Department at the British University in Egypt is dedicated to delivering high-quality education, clinical training, and research in the field of oral rehabilitation. Our department combines advanced teaching methods with hands-on clinical experience, enabling students to develop strong diagnostic and technical skills in our field. With state-of-the-art facilities, and a team of experienced academic staff, we prepare current and future dental professionals to provide patient-centered care and innovative prosthodontic solutions. The department also engages in international educational initiatives, fostering collaboration and excellence across global dental communities.

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ORAL & MAXILLOFACIAL SURGERY

Implantology Startup

Program Director: **Prof. Amr Amin**

Learning Outcomes:

1. Decide whether the patient is fit for the procedure
2. Perform delayed implant placement procedures safely and effectively
3. Perform immediate implant placement procedures safely and effectively
4. Managing complications related to the procedures

Theoretical Content:

1. Systemic diseases and implantology.
2. Radiography for implantology.
3. Science behind grafting.
4. Complications and implantology.

Case Requirements:

1. Delayed implants
2. Immediate implants

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ORAL & MAXILLOFACIAL SURGERY

Mastering Transalveolar Extraction

Program Director: **Prof. Amr Amin**

Learning Outcomes:

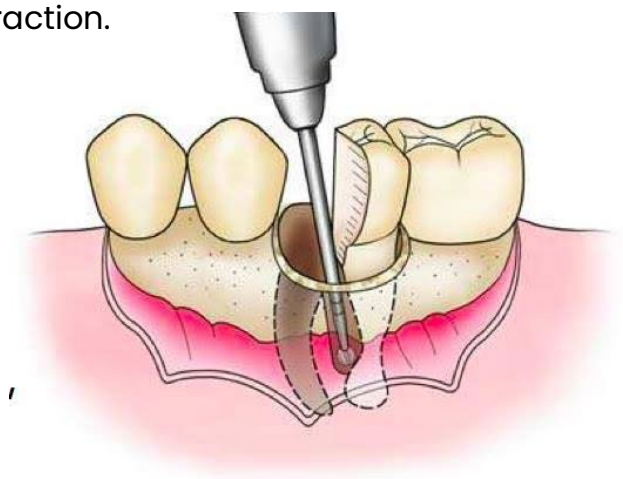
1. Decide whether the patient is fit for the procedure
2. Perform simple and complicated trans alveolar extraction procedures safely and effectively
3. Restore gingival contour and continuity following extractions
4. Managing all sequala of delayed healing following extractions

Theoretical Content:

1. Systemic diseases and the extraction patient.
2. Innervation for local anesthesia.
3. Trans alveolar extraction techniques.
4. Complications of trans alveolar extraction.
5.

Case Requirements

1. Translveloar extraction
2. Impaction



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ORAL & MAXILLOFACIAL SURGERY

Comprehensive Exodontia

Program Director: **Prof. Amr Amin**

Learning Outcomes:

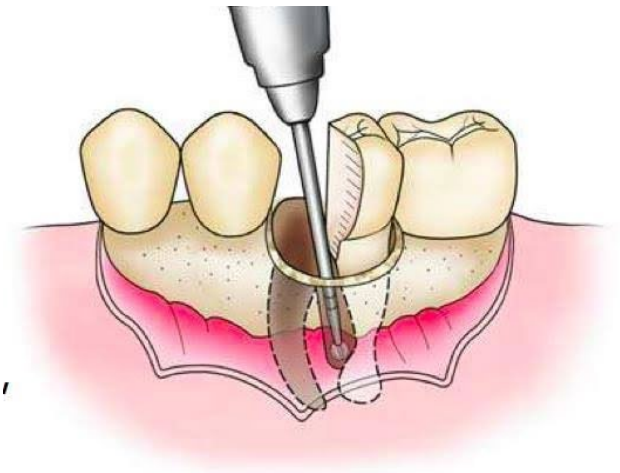
1. Decide whether the patient is fit for the extraction procedure
2. Perform simple and complicated extraction procedures safely and effectively
3. Restore gingival contour and continuity following extractions
4. Managing all sequala of delayed healing following extractions

Theoretical Content:

1. Systemic diseases and the extraction patient.
2. Innervation for local anesthesia.
3. Extraction techniques.
4. Complications of extraction.

Case Requirements

1. Extractions (20 cases)
2. Suturing (20 cases)



Prof. Amr Amin Ghanem BDS (Hons), MSc, DDS, PhD, MRCP (Glasgow), FDS.

Prof. Amr Amin Ghanem is a highly respected oral and maxillofacial surgeon and serves as the Head of the Oral & Maxillofacial Surgery Department at the British University in Egypt. He is known for his extensive clinical expertise, academic leadership, and commitment to advanced surgical training. He holds a Bachelor of Dental Surgery with Honors, a master's degree, Doctor of Dental Science, and Doctorate (PhD) in Oral and Maxillofacial Surgery. His prestigious international qualifications include Membership of the Royal College of Physicians (Glasgow) and Fellowship in Dental Surgery.

The Oral and Maxillofacial Surgery (OMFS) Department at the British University in Egypt is a leading center of excellence dedicated to delivering high-quality clinical care, advanced surgical training, and impactful community service. We treat patients requiring simple and complex tooth extractions, surgical removal of impacted teeth, dental implant placement, bone augmentation procedures, and reconstructive surgeries. With a fully equipped operating room and a multidisciplinary team, we perform more advanced interventions including orthognathic surgery for facial skeletal deformities and cleft lip surgery for children, helping restore function, harmony, and quality of life for our patients. The department is committed not only to clinical excellence but also to education and innovation. Through specialized programs, including the Advanced Clinical Training Program (ACTP), we prepare the next generation of surgeons to deliver safe, competent, and compassionate care.

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DIGITAL DENTISTRY & DIAGNOSTICS

Digital Orthodontics

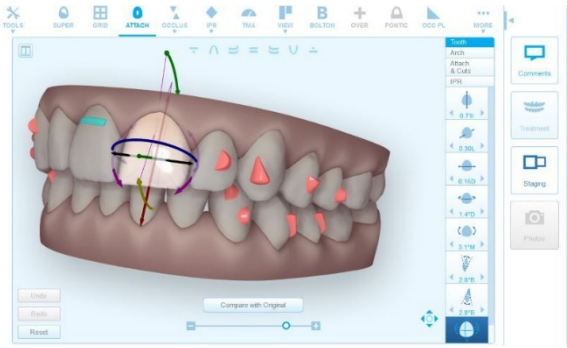
Program Director: **Prof. Islam Tarek**

Learning Outcomes:

1. Transform their regular workflow into fully digitized workflow.
2. State different digitization tools, starting with data acquisition till finalization of the treatment plan.
3. Know how to evaluate the accuracy and the reliability of recent orthodontic innovations.
4. Learn the basic concepts of Clear Aligners treatment.
5. Identify the role of Artificial Intelligence in Orthodontics.

Theoretical Content:

1. Application of digital & three-dimensional records in orthodontics
2. Application of facial scanning
3. Basic concepts of In-House clear aligners treatment
4. AI in orthodontics and research



Case Requirements

1. Digital models (4)
2. Digital radiographic assessment (4)
3. Digital radiographic assessment (4)
4. Basic concepts in clear aligners treatment (4)

Prof. Islam Tarek, Head of department and Professor of Orthodontics

The Orthodontic Department at the British University in Egypt is recognized for its strong academic foundation and its commitment to staying at the forefront of modern orthodontic practice. The department utilizes state-of-the-art digital orthodontic technologies, including digital treatment planning, 3D imaging, clear aligner systems, and advanced diagnostic software. This ensures that students are trained using contemporary methods aligned with global standards.

Clinically, the department provides extensive hands-on experience across a wide range of orthodontic cases, allowing trainees to develop strong diagnostic and clinical decision-making skills. Teaching is delivered by highly qualified faculty who combine scientific expertise with practical experience, ensuring that students gain a deep understanding of both theoretical concepts and real-world clinical applications.

As part of the ACTP program, the Orthodontic Department is dedicated to shaping a new generation of orthodontists who are well-prepared, digitally competent, and capable of practicing evidence-based, patient-centered orthodontic care. The program emphasizes excellence, innovation, and the development of advanced clinical proficiency.

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PROSTHODONTICS (FIXED, REMOVABLE, AESTHETIC)

Clinical Aesthetics for Fixed Prosthodontics

Program Director: **Prof. Ahmed Sabet**

Learning Outcomes:

1. Diagnose & assess esthetic case
2. Set a full treatment plan for esthetic case
3. Proper selection for indirect ceramic materials
4. Differentiate between different adhesion protocols
5. Apply different preparation design

Theoretical Content:

1. Smile design
2. Different esthetic preparation technique
3. Recent ceramic technology
4. Different adhesion protocol

Case Requirements

1. Full esthetic laminate veneers case (6)
2. Full esthetic laminate veneers case (6)

Prof. Ahmed Sabet, Head of Department and Professor of Fixed Prosthodontics.

The Fixed Prosthodontics Department at the British University in Egypt is distinguished by its advanced clinical training, modern facilities, and strong integration of digital dentistry. The department incorporates state-of-the-art technologies such as digital smile design, CAD/CAM systems, intraoral scanning, and computer-assisted treatment planning, ensuring that students are exposed to the full spectrum of contemporary fixed prosthodontic practice.

Clinically, the department provides extensive hands-on experience in the diagnosis, design, and fabrication of fixed restorations, including crowns, bridges, veneers, onlays, and implant-supported prostheses. Students learn to combine esthetic excellence with functional precision, supported by faculty who are experts in restorative and esthetic dentistry. Training emphasizes meticulous treatment planning, material selection, and long-term oral rehabilitation strategies.

The inclusion of digital smile design allows students to visualize treatment outcomes, enhance patient communication, and deliver predictable esthetic results. By integrating digital workflows with traditional prosthodontic principles, the department ensures graduates are competent, confident, and ready to meet international standards in fixed prosthodontics.

As part of the ACTP program, the department is committed to preparing a new generation of skilled prosthodontists who combine scientific knowledge, artistic ability, and advanced digital expertise. The program focuses on developing clinicians capable of delivering high-quality, evidence-based fixed prosthodontic care with precision and innovation.

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PERIODONTOLOGY

Advanced Periodontics and Implantology

Program Director: **Prof. Dalia Ghalwash**

Learning Outcomes:

1. Explain the principles of periodontal regeneration, tissue engineering, and guided bone/tissue regeneration.
2. Critically review current literature and emerging technologies in surgical and non-surgical periodontal therapy.
3. Execute non-surgical and surgical periodontal therapies using microsurgical and minimally invasive techniques.
4. Apply regenerative procedures including GTR/GBR, use of biomaterials, and autogenous grafting.
5. Perform aesthetic mucogingival procedures and peri-implant soft tissue augmentation.
6. Manage peri-implant diseases through both non-surgical and surgical modalities.

Theoretical Content:

1. Regenerative and resective surgery for the treatment of periodontitis
2. Periodontal plastic surgery to correct acquired mucogingival (recession) defects
3. Dental implant placement (conventional and computer guided) of single and multiple fixtures, including “All-on-Four” type procedures
4. Site development for dental implant placement (hard and soft tissue grafting)

Case Requirements

1. Esthetic crown lengthening (2)
2. Implant supported bridge for posterior edentulous area (1)
3. GBR for treatment of intra bony defect (1)
4. Immediate implant placement in the esthetic zone
5. Treatment of single RT 1 recession defect

Prof. Dalia Ghalwash, Head of Oral medicine and Periodontology department and Vice dean for Community Service & Enterprise

The Periodontics Department at the British University in Egypt is recognized for its advanced clinical expertise, modern surgical training, and strong commitment to evidence-based periodontal therapy. The department integrates the latest technologies and contemporary techniques to ensure students receive comprehensive and up-to-date training in both nonsurgical and surgical periodontal care. Clinically, students are trained in essential periodontal procedures, including scaling and root planning, periodontal maintenance, and full-mouth disinfection strategies. The department also provides hands-on exposure to advanced surgical interventions such as periodontal flap surgeries, crown lengthening, regenerative procedures using membranes and biomaterials, gingival grafting, and management of mucogingival defects. Implant-related surgeries—including implant placement, peri-implantitis management, and soft-tissue augmentation—are also emphasized to meet modern clinical demands.

The department incorporates cutting-edge advancements such as microsurgical techniques, minimally invasive periodontal surgeries, and the use of lasers in soft-tissue management and bacterial reduction. Digital tools, including 3D imaging, guided surgical planning, and digital periodontal charting, are part of the integrated workflow to enhance diagnosis and treatment precision. Students learn to approach periodontal therapy with a comprehensive, biology-driven perspective, focusing on preserving periodontal health and supporting long-term oral function. Faculty members provide close supervision and mentoring to develop students' clinical judgment and surgical confidence.

As part of the ACTP program, the Periodontics Department is dedicated to cultivating a new generation of periodontists who are highly skilled, research-oriented, and capable of performing advanced periodontal and implant-related surgeries using modern, minimally invasive techniques. The department ensures that every graduate is well-prepared to deliver high-quality periodontal care grounded in innovation, precision, and international standards.

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FACULTY OF DENTISTRY

DIGITAL DENTISTRY & DIAGNOSTICS

CBCT Interpretation and Implant Planning

Program Director: **Prof. Hossam Kandil**

Learning Outcomes:

1. **Interpretation of CBCT Landmarks**: Demonstrate advanced ability to identify and accurately interpret normal anatomical landmarks and radiographic variations on CBCT scans of the maxillofacial region.
2. **Tracing and Evaluation of Vital Structures**: Competently trace and evaluate critical anatomical structures (e.g., inferior alveolar canal, mental foramen, maxillary sinus, nasal floor) to prevent iatrogenic complications during radiologic interpretation and surgical planning.
3. **Dental Implant Planning Using CBCT**: Integrate CBCT data to perform comprehensive implant site assessment—including bone quality, quantity, and angulation—while selecting appropriate imaging protocols to enhance diagnostic accuracy and surgical outcomes.
4. **Radiation Protection and Safety Measures**: Apply evidence-based principles of radiation protection and quality assurance, adhering to ALARA/ALADA concepts, and demonstrate competency in selecting appropriate exposure parameters to minimize patient and operator dose.

Theoretical Content:

1. CBCT principles and landmark tracing
2. virtual dental implant planning and site evaluation
3. Image quality optimization and artifact management in CBCT
4. Radiation safety and protection in CBCT imaging

Case Requirements

1. Perform CBCT acquisition and patient adjustment (3)
2. Interpretation of CBCT workflow, vital structure tracing, CBCT reporting (10)
3. Virtual dental implant planning and site evaluation (10)

Prof. Hossam Kandil

Professor and head of Oral Radiology Department, faculty of Dentistry, Cairo University and The British University in Egypt

Assoc. Prof. Sherif El Bahnasy

Associate professor of Oral Radiology, faculty of Dentistry, The British University in Egypt

Assoc. Prof. Hisham El Shiekh

Associate professor of Oral Radiology, faculty of Dentistry, The British University in Egypt

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FACULTY OF DENTISTRY

PEDIATRIC DENTISTRY

Foundations in Pediatric Dentistry

Program Director: **Prof. Noha Kabil**

Learning Outcomes:

1. Perform comprehensive examinations and develop evidence-based, individualized treatment plans for pediatric patients using structured diagnostic workflows.
2. Demonstrate the ability to apply appropriate behavior guidance techniques to establish communication, reduce anxiety, and ensure cooperative pediatric dental care.
3. Competently administer local anesthesia to children, selecting appropriate techniques, dosages, and safety measures specific to pediatric patients.
4. Diagnose accurately pulpal conditions and perform indicated pulp therapy procedures in primary and young permanent teeth according to current clinical guidelines.
5. Select, prepare, and place stainless steel crowns effectively, ensuring proper fit, occlusion, and long-term restoration of primary molars.
6. Recognize MIH clinically and apply appropriate preventive, restorative, and symptomatic management strategies tailored to severity and patient needs.

Theoretical Content:

1. Diagnosis, workflow & treatment planning.
2. Behavior Management
3. Local Anesthesia.
4. Pulp therapy in primary & young Permanent Teeth.
5. Full coverage in Pediatric dentistry (Stainless Steel Crowns)
6. MIH: Molar Incisor Hypomineralisation.

Case Requirements

1. Class I – II Cavity preparation and filling.
2. Pulp Therapy (Pulpotomy) on Extracted / Nissin teeth.
3. Stainless Steel Crown preparation and placement in Primary Molars.
4. Radiograph Examination and Interpretation

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FACULTY OF DENTISTRY

PEDIATRIC DENTISTRY

Start Up in Pediatric Dentistry

Program Director: **Prof. Noha Kabil**

Learning Outcomes:

1. Perform comprehensive pediatric assessments and formulate evidence-based treatment plans using systematic diagnostic workflows.
2. Competently administer local anesthesia to children and apply appropriate behavior guidance techniques to ensure safe, effective, and cooperative dental care.
3. Integrate minimally invasive dentistry principles to manage caries in children using evidence-based preventive, micro-invasive, and biologically oriented techniques.
4. Select and perform appropriate restorative procedures for primary and young permanent teeth, ensuring functional, esthetic, and durable outcomes.
5. Diagnose accurately pulpal conditions and provide the indicated pulp therapy technique for both primary and permanent teeth in accordance with current clinical guidelines.
6. Select and deliver full-coverage restorations, including stainless steel and esthetic crowns, ensuring proper fit, occlusion, and long-term success.
7. Recognize MIH clinically, assess severity, and apply appropriate preventive, restorative, and symptomatic management strategies tailored to each child's needs.
8. Prescribe medications safely and responsibly for pediatric patients and apply stewardship principles to reduce antimicrobial resistance.
9. Diagnose early tooth loss and provide appropriate space-maintaining appliances to prevent malocclusion and support normal dental arch development.

Theoretical Content:

1. Diagnosis, workflow & treatment planning
2. Local Anesthesia and behavior guidance
3. Advanced: Minimal Invasive Dentistry
4. Restorative Pediatric Dentistry
5. Multiple options in Pulp therapy for primary & permanent dentitions.
6. Full coverage restorations.
7. MIH: Molar Incisor Hypo mineralization
8. Drug Prescription & AMR: Antimicrobial Resistance.
9. Space maintenance.

Case Requirements

1. Pulp Therapy (Pulpotomy) & obturation on Extracted teeth.
2. Stainless Steel Crown preparation and placement in Primary Molars.
3. Radiograph Examination and Interpretation

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FACULTY OF DENTISTRY

PEDIATRIC DENTISTRY

Move Forward Pediatric Dentistry

Program Director: **Prof. Noha Kabil**

Learning Outcomes:

1. Perform comprehensive pediatric assessments and formulate Assess anterior tooth damage in children and restore form, function, and esthetics using appropriate full-coverage techniques.
2. Understand general anesthesia principles, select suitable pediatric cases, and plan and execute comprehensive full-mouth rehabilitations safely.
3. Diagnose and manage traumatic dental injuries in primary and permanent teeth following current evidence-based protocols.
4. Identify, diagnose, and provide appropriate management or referral for oral pathologic lesions in infants.
5. Recognize harmful oral habits and developing malocclusions and implement early interceptive orthodontic interventions to guide normal growth.
6. Manage dental care for children with special health care needs, including safe medication use and modifications in treatment planning and behavior guidance.

Theoretical Content:

1.Full Coverage for Anterior Mutilated Teeth.

2. General Anesthesia Concepts & Case Selection & Full Mouth Rehabilitation

3. Management of Traumatic Injuries

4.Oral pathologic lesions in Infants.

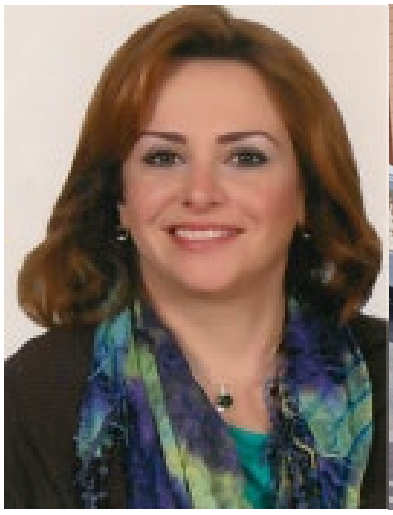
5. Oral habits and Interceptive Orthodontics

6. Medications & Dental Management of SHCN: Special Health Care Need patients.

Case Requirements

Trauma: Problem Solving workshop with hands on splint fixation.

Anterior – Posterior Zirconia Crown Preparation and Try In on Nissin Casts.



Prof. Noha Kabil Professor of Paediatric & Preventive Dentistry & Dental Public Health, since 2016 till present. Assistant Professor from 2011.Ph.D., Doctors Degree in Paediatric Dentistry Ain Shams University, 2006.M.Sc., Master of Science in Orthodontics, Paediatric & Community Dentistry, Faculty of Oral & Dental Medicine, Cairo University, 2000.DDS, bachelor's degree in Oral & Dental Surgery - Faculty of Oral & Dental Medicine, Cairo University, 1994. G.C.E., General Certificate of Education, London University (overseas), 1988.Head of Department of Orthodontics and Pediatric Dentistry, British University in Egypt from October 2020 till present

Professor and Former Head of Department of Pediatric Dentistry & Dental Public Health; Ain Shams University, Cairo, Egypt. Consultant of Pediatric Dentistry & Dental Public Health, Al Nozha International Hospital, Cairo, Egypt

Fellow Tennessee University, the United States of America, August 2003. RESEARCH ACTIVITIES: 27 local publications 10 international Publications 3H-index 40 Citations. PROFESSIONAL SOCIETIES: Member, The Egyptian Society of Paediatric Dentistry and Children with Special Needs. (ESPD CSN)

Board Member, The Egyptian Society of Pediatric Haematology and Oncology (ESPHO).

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RESTORATIVE DENTISTRY

Essentials of Restorative Aesthetic Dentistry

Program Director: **Prof. Mohamed Haridy**

Learning Outcomes:

1. Perform basic cavity preparation techniques for various types of anetrior and posterior carious lesions.
2. Apply dental bonding agents effectively ensuring optimal adhesion and longevity.
3. Utilize isolation techniques including rubber dam placement for maintaining a dry operative field.
4. Implement anterior and posterior matrix systems for proper tooth restoration, contouring and contact.
5. Demonstrate clinical judgment in treatment planning and execution of conservative procedures.
6. Understand and apply infection control and patient safety standards during clinical procedures.

Theoretical Content:

1. Principles of cavity preparation and minimally invasive dentistry
2. Dental bonding systems and adhesive dentistry concepts
3. Isolation techniques and rubber dam application
4. Matricing systems and their clinical applications in restorative dentistry
5. Indirect posterior restorations

Case Requirements

1. Class I 5 cases with full documentation
2. Class II 5 cases with full documentation
3. Class III 3 cases with full documentation
4. Class IV 2 cases with full documentation
5. Class V 3 cases with full documentation
6. Indirect posterior restorations (inlay/onlay/overlay) (Labaroratory) 1 case with full documentation

The BRITISH UNIVERSITY IN EGYPT

SCE SCHOOL OF CONTINUING EDUCATION

FACULTY OF DENTISTRY

RESTORATIVE DENTISTRY

Digital Era Aethetics and Smilecraft

Program Director: **Prof. Mohamed Haridy**

Learning Outcomes:

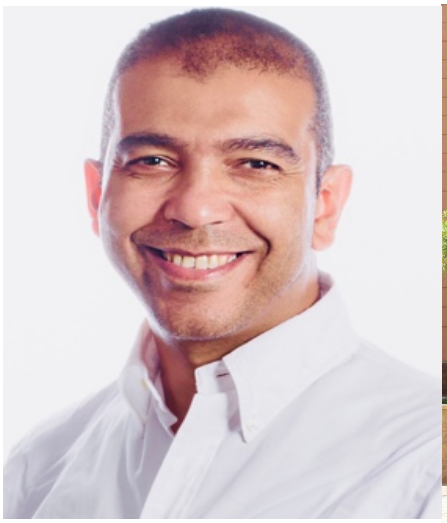
1. Understand and apply advanced concepts of smile design integrating esthetic principles and patient-centered approaches.
2. Demonstrate proficiency in advanced adhesive bonding techniques for durable and esthetic restorations.
3. Perform clinical procedures for composite veneer application with attention to layering and finishing.
4. Utilize digital dentistry tools for diagnosis, treatment planning, and execution of conservative restorative procedures.
5. Integrate theoretical knowledge with clinical practice to manage complex restorative cases conservatively.
6. Critically evaluate outcomes and optimize protocols for restorative success and patient satisfaction.

Theoretical Content:

1. Principles and techniques of smile design
2. Advances in adhesive dentistry and bonding agents
3. Composite materials and veneer layering techniques
4. Digital workflows in conservative dentistry and restorative treatment planning

Case Requirements

1. Smile design case planning and execution: 1 full case with full documentation.
2. Composite veneer: 1 full case with full documentation.
3. Digital dentistry-guided restorative cases: 1 case (2 different techniques)



Prof. Mohamed Fouad Haridy

Professor Of Conservative Dentistry – Cairo University

Head Of Restorative Dentistry Department -British University In Egypt (BUE)

Professor Of Conservative Dentistry – Cairo University and Head Of Restorative Department -The British University in Egypt. He completed his BDS in dentistry in 2000 and in 2005 he completed his master's degree in restorative, fixed prosthodontics, endodontics and bio-materials. In 2010, Dr. Haridy obtained his PhD degree in collaboration between Cairo university and university of Toronto-Canada. He has wide experience and passion in improving dental health, research and education. He is speaker in many national and international dental and medical conferences. Also, he is key opinion leader for many dental companies regarding esthetic and restorative fields as DENTSPLY SIRONA, 3M ESPE, KERR, BISCO and SHOFU. He supervised many master and PhD programs in his universities.

The Restorative Dentistry Department at the British University in Egypt (BUE) is committed to excellence in dental education, clinical performance, and patient-centered care. As a core academic and clinical unit of the Faculty of Dentistry, the department brings together a highly skilled team of educators, clinicians, and researchers dedicated to advancing the standards of restorative and esthetic dentistry in Egypt and the region. Our department integrates evidence-based practice with hands-on clinical expertise, ensuring that students and practitioners receive comprehensive training grounded in the latest scientific advancements. Through a collaborative and interdisciplinary approach, we continuously strive to bridge the gap between theory and practice, cultivating a learning environment that encourages critical thinking, innovation, and clinical mastery. As part of the Advanced Clinical Training Program, the Restorative Dentistry Department delivers intensive educational modules designed to enhance participants' clinical judgment and refine their practical skills. Our role includes: High-quality lectures covering advanced restorative, esthetic, adhesive, and minimally invasive dentistry.

Live demonstrations showcasing contemporary techniques, materials, and digital workflows.

Close clinical supervision to ensure participants develop confidence and precision in real clinical scenarios.

Skill enhancement workshops focusing on esthetic analysis, treatment planning, adhesive protocols, and direct–indirect restorative strategies.

Interdisciplinary collaboration with prosthodontics, endodontics, and digital dentistry units for comprehensive patient-centered care.

Our department staff are passionate about mentoring the next generation of dental professionals, and we are proud to contribute to shaping the future of restorative and esthetic dentistry through education, innovation, and clinical excellence.

The BRITISH UNIVERSITY IN EGYPT

SCE SCHOOL OF CONTINUING EDUCATION

FACULTY OF DENTISTRY

CLINICAL PRACTICE & MANAGEMENT

Mastering Comprehensive Clinical Case Management

Program Directors: **Prof. Doaa Ragai and Prof. Hala Zakaria**

Learning Outcomes:

1. Explain the biological, functional, and esthetic principles guiding comprehensive dental care.
2. Integrate diagnostic and treatment planning knowledge from multiple dental specialties.
3. Perform complete oral assessments and formulate evidence-based, patient-centered treatment plans.
4. Execute advanced clinical procedures across restorative, endodontic, periodontal, and prosthodontic disciplines with high technical competence.
5. Apply digital technologies and contemporary materials to optimize clinical outcomes.
6. Manage multidisciplinary cases and clinical complications effectively with sound professional judgment.

Theoretical Content:

1. Principles of Comprehensive Dental Care — Biological, Functional, and Esthetic Foundations
2. Case Documentation and Digital Clinical Record Management
3. Integrated Diagnosis and Multidisciplinary Treatment Planning
4. Clinical Execution and Management of Complex Restorative and Rehabilitative case

Clinical Procedures Requirements

- Two comprehensive cases with full documentation
  - Each case should include:
    - Full mouth diagnosis, radiographic assessment and interpretation
    - Esthetic analysis and smile design
    - Non-surgical periodontal therapy or minor surgical procedures
    - Restorative Dentistry: 6 (minimum) direct or indirect esthetic restorations (anterior or posterior)
    - Endodontic treatment: 2 canals (minimum) on anterior and posterior teeth
    - Prosthodontics: Fixed or removable prosthesis planning and delivery (replacement of at least 1 missing tooth)
    - Oral Surgery / OMFS: Simple extractions or minor oral surgical interventions (optional)
  - Comprehensive Clinical Care Case Presentation of one of the completed cases demonstrating diagnosis, treatment planning, and integrated care.

Prof. Doaa Ragai is a Professor of Restorative and Esthetic Dentistry at Alexandria University and the Internationalization Lead at the Faculty of Dentistry, British University in Egypt (BUE). A top graduate of her class, she completed her master's degree and later her PhD (2009) in Restorative Dentistry under joint supervision with the University of Toronto, where she also earned her National Dental Examination Board certification and became a licensed member of the Royal College of Dental Surgeons of Ontario(RCDSO).

Her international academic and clinical career spans Egypt, Canada, Saudi Arabia, and Lebanon, including serving as Head of the Restorative and Endodontics Divisions at Dar Al Uloom University in Riyadh and Program Director of the Saudi Board in Restorative Dentistry. Over the years, she has built a strong publication record and has presented her work at leading global dental conferences, contributing to advancements in restorative and esthetic dentistry. More recently, she founded and led the development of the Alexandria University–Faculty of Dentistry's Electronic Patient Management System—reflecting her dedication to modernizing clinical workflows and enhancing both dental education and service delivery.

Bringing over 25 years of clinical and academic excellence, Prof. Doaa is committed to empowering clinicians with the skills to deliver integrated, evidence-based comprehensive care and to excel in interdisciplinary dental practice.

Prof. Hala Zakaria Mahmoud - Professor of Oral Radiology, Diagnosis & Medicine, HOD of Comprehensive Clinic, Director of Internship Program of Faculty of Dentistry Deputy Quality Director.

Prof. Hala Zakaria Mahmoud Mohamed Yossry is a senior academic and clinician specializing in Oral Radiology and Diagnosis, with more than thirty years of experience in dental education, clinical training, research, and academic administration. She served as Professor of Oral Radiology, Diagnosis, and Oral Medicine at the Faculty of Oral and Dental Medicine, Cairo University from 1988 to 2009, where she was actively involved in undergraduate and postgraduate teaching as well as research supervision.

She later joined the RAK College of Dental Sciences, where she held the positions of Chairperson of Student Affairs and Professor of Oral Radiology from 2011 to August 2020. During this period, Prof. Hala also served as Radiation Protection Officer for the Radiology Department under the Federal Authority for Nuclear Regulation (FANR), UAE, ensuring compliance with national radiation safety regulations.

Since October 2020, Prof. Hala has been Professor of Oral Radiology and Diagnosis at the Faculty of Dentistry, The British University in Egypt. She currently serves as Director of the Internship Program, Deputy Director of the Quality Assurance Unit, and Head of the Comprehensive Clinic, contributing to clinical education, quality assurance, and institutional development.

Prof. Hala has published more than 30 peer-reviewed research articles in areas including digital imaging and laser applications, supervised numerous Master's and PhD theses, and serves on international editorial boards. She is an active member of the Egyptian Dental Association and an assigned member of the Arabian Promotion Committee at King Saud University. Her contributions to dental education and innovation have been recognized through academic awards.

The BRITISH UNIVERSITY IN EGYPT

SCE SCHOOL OF CONTINUING EDUCATION

FACULTY OF DENTISTRY

DIGITAL DENTISTRY & DIAGNOSTICS

AI in Dental Diagnostics

Program Director: **Assoc. Prof. Nora Saif**

Learning Outcomes:

1. Explain the principles of artificial intelligence and machine learning as applied to dental imaging and diagnostics.
2. Utilize AI-based diagnostic software to analyze radiographs, CBCT scans, and intraoral images with clinical accuracy.
3. Critically evaluate the diagnostic performance and limitations of AI tools compared with clinician-based assessments.
4. Integrate AI-driven diagnostic outputs into evidence-based clinical decision-making and treatment planning.

Theoretical Content:

1. AI Foundations in Dental Imaging

2. AI in Radiology and Image Analysis

3. AI-Assisted Diagnostic Decision Making

4. Ethics, Quality, and Clinical Implementation

Clinical Procedures Requirements

Module 1:

- Case demonstration: AI detection of caries, bone loss, and periapical lesions
- Working with datasets in Deep Care and Pearl AI platforms.

Module 2

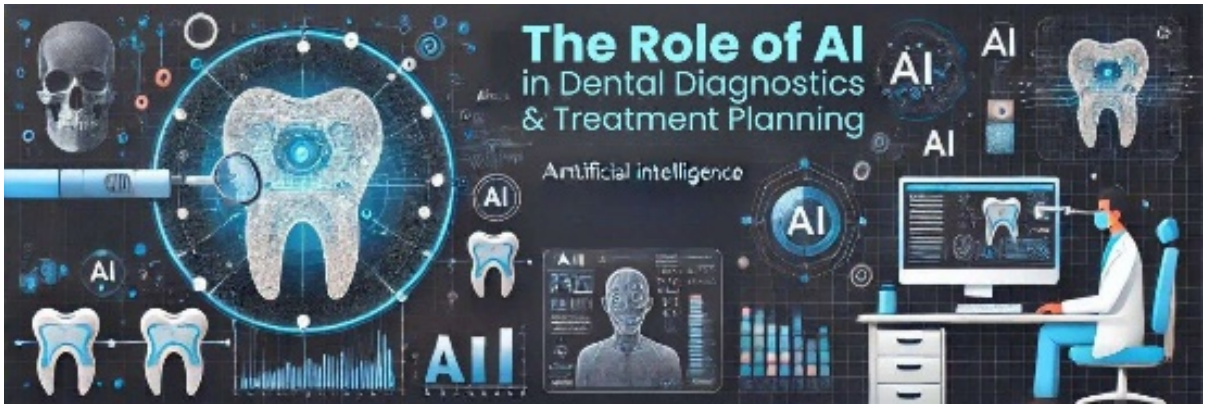
- Radiograph interpretation using AI-based tools
- CBCT segmentation: automated vs manual/ Comparison: clinician vs AI diagnostic output.

Module 3:

- Case simulations
- Predictive diagnosis and treatment plan verification
- Using AI for outcome tracking and post-treatment analysis

Module 4:

- Clinical audit of AI diagnostic performance
- Capstone: full diagnostic workflow using AI tools with clinician validation



Assoc. Prof. Nora Saif is an Associate Professor of Oral and Maxillofacial Radiology and the Director of the AI Center at Cairo University, concurrently co-leading the AI Focus Team at The British University in Egypt. Her work is dedicated to integrating artificial intelligence into oral and maxillofacial imaging to advance diagnostic accuracy and treatment planning.

Holding an MSc in Dental Medicine, Diagnostic Science, and Periodontology and a PhD in Oral and Maxillofacial Radiology from Cairo University, her research focuses on 3D dental image processing and the application of AI-based tools to improve clinical decision-making. Dr. Saif contributes to the Research Committee of the International Association of Dental and Maxillofacial Radiology (IADMFR) and the ITU/WHO/WIPO Global Initiative on AI for Health.

As a committed educator and international lecturer, she promotes excellence in radiology education and interdisciplinary collaboration, exemplified by her founding of the Egyptian Maxillofacial Radiology Alliance (EMRA) in 2022 to foster cooperation and innovation within the field.

The BRITISH UNIVERSITY IN EGYPT

SCE SCHOOL OF CONTINUING EDUCATION

FACULTY OF DENTISTRY

DIGITAL DENTISTRY & DIAGNOSTICS

Laser in dentistry

Program Director: **Assoc. Prof. Basma Gamal**

Learning Outcomes:

1. Understand laser physics, tissue interactions, and clinical applications to safely integrate lasers into dental practice for procedures like soft/hard tissue management, caries detection, and endodontics.
2. Learners will grasp basic laser principles, including wavelengths, light spectrum, emission modes, and laser-tissue interactions.
3. They will identify laser types suitable for dental uses, such as diode lasers for soft tissue and others for hard tissue ablation. Safety protocols, infection control, and power settings.
4. Participants will gain hands-on experience with laser setups, delivery systems, and simulations for soft/hard tissue procedures.
5. They will apply lasers in restorative, periodontal, esthetic, and orthodontic treatments.
6. Learners will decide on appropriate laser parameters, modes, and frequencies for specific cases while evaluating advantages over traditional methods.

Theoretical Content:

1. Masters of Laser Dentistry

2. Exploring the Era of laser Dentistry

3. Step by Step guidance into laser Dentistry

4. Fundamentals of Laser Dentistry

Clinical Procedures Requirements

Module 1:

- Practical Foundation of Dental Lasers

Module 2

- Clinical observations of practical cases
- Live demo

Module 3:

- Pre-clinical Hands on

Module 4:

- Hands on

Assoc. Prof. Basma Gamal is in Pediatric Dentistry and Dental Public Health, Ain Shams University.