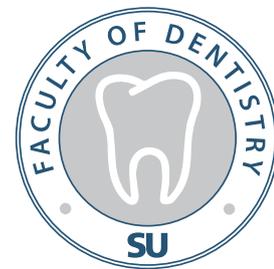


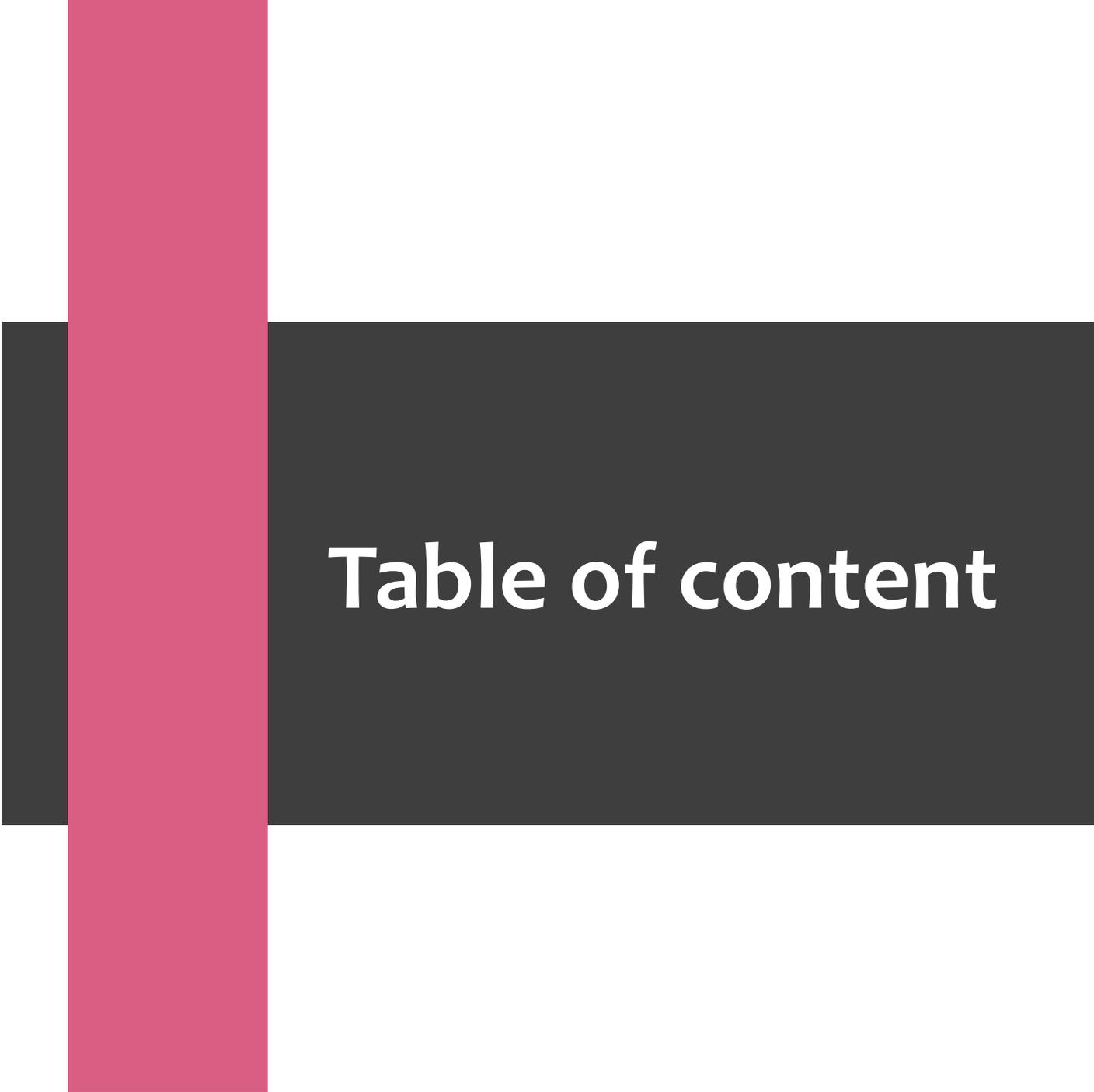
**FACULTY OF  
DENTISTRY**



**SU KANTARA**  
**SINAI UNIVERSITY**



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# DEAN'S MESSAGE

Committed to the pursuit of excellence in dental education, scientific research, patient care and community services. The faculty of dentistry affirms its mission to develop and train competent dentists who are committed to provide quality care for dental patients according to the international standards, in line with the needs and goals of the nation. Therefore, the college offers an outstanding dental education program that uses advanced techniques to teach, and practice dentistry.

The faculty of dentistry in Kantara Branch at the University of Sinai currently offers a bachelor's degree in Dental Medicine and Surgery in 5 years followed by a full year of training in an internship program.

Our program has been prepared based on the most advanced research finding in the field of dentistry education and focusing on the local community needs.

Dean of the Faculty of Dentistry

Prof. Dr. Randa Mohamed Hafez





## VISION

Faculty of Dentistry, Sinai University, Kantara is looking for excellence nationally and regionally in the field of Dentistry, scientific research and community services through providing competent, integral and compassionate oral health care for population with ethical background and evidence.



## MISSION

Mission of Faculty of Dentistry, Sinai University, Kantara is to prepare qualified students and graduates to be well recognized nationally and regionally in the field of Dentistry. Scientific research and community services, in addition to presenting applied scientific researches, training courses through postgraduates and continuing education programs and therapeutic services to serve the community in the light of the ethics system.

## Why study dentistry in Sinai University

Teaching at faculty of dentistry in Sinai university is strongly linked to the latest thinking in dentistry and related oral sciences which allowing students to having wide experience.

Sinai has a strategic location and charming nature

Campus allows the opportunity to meet and study with many other students of faculty of dentistry in Sinai University,

## Program Objectives

- General objectives of the Faculty of Dentistry, Sinai University and its taught program; the graduate must be able to:
- Accept the ethical professional responsibility for effective and safe care of patient
- Appreciate the need for continual profession.
- Utilize the advance in relevant knowledge and techniques to provide comprehensive practice management.
- Recognize the role of patient in decision making by effective communication
- Recognize the social cultural and environmental factors which contribute to health or illness, and prevalence and how managing patients from different social and ethnic background.
- Recognize the legal, ethical obligation of registered dental practitioners, and the regulatory functions of the Egyptian Dental syndicate
- Provide oral health care surfaces within the scope of general dentistry.
- Recognize the various features of medico- legal aspects of the dental profession.
- Recognize the limitation of their current knowledge and clinical abilities and realize the need for proper referral.
- Evaluate and respond to ongoing dental technology.

# Program Outcomes

## a- Knowledge and Understanding:

By the end of the program, the student should be able to:

- a1. Recognize the principles of physics, chemistry, basic science, anatomy, physiology and biomedical science relevant to dentistry.
- a2. Identify principles of pathogenic mechanism and manifestation of human disease which are of dental significance.
- a3. Outline the complex interactions between oral health, nutrition, general health, drug and diseases that can have an impact on dental care and diseases.
- a4. Describe the principles of management of emergency care.
- a5. Discuss the scientific principles of sterilization, disinfection and antisepsis.
- a6. Outline the safe work with radiation, surgical and dental practices.
- a7. Outline the basic aspects of general medicine and surgery.
- a8. Identify the basis of endodontic practice management.
- a9. Identify the basis of orthodontic practice management.
- a10. Identify the basis of disease prevention practice management.
- a11. Identify the basis of oral surgery practice management.
- a12. Identify the basis of operative dentistry practice management.
- a13. Identify the basis of fixed prosthodontics practice management.
- a14. Identify the basis of removable prosthodontics practice management.
- a15. Identify the basis of pedodontics practice management.
- a16. Identify the basis of oral radiology practice management.
- a17. Identify the basis of periodontology practice management.
- a18. Describe the biomaterials, types, uses, biological responses, and their limitations.
- a19. Recognize principles of evidence based practice in dentistry, and its relation to scientific research.
- a20. Discuss the basic principles of language, behavioral and social sciences besides regulatory affairs, dental laws and ethics of health care and dental profession.
- a21. Recognize the social and psychological issues relevant to dental care with emphasis on behavioral management.

## **b- Professional & Practical:**

By the end of the program, the student should be able to:

- b1. Establish a comprehensive patient's history.
- b2. Perform clinical examination.
- b3. Request and evaluate appropriate investigations.
- b4. Review the body systems and consult with other health care professionals, when required.
- b5. Detect abnormal and pathological conditions, as well as the etiology.
- b6. Detect risk factors that may contribute to disease process.
- b7. Perform a range of clinical procedures which are within the scope of general dentistry.
- b8. Apply preventive procedures.
- b9. Apply different local anesthetic techniques.
- b10. Perform Extraction of teeth and removal of roots when necessary.
- b11. Diagnose of commonly encountered oral lesions.
- b12. Perform the necessary radiographs
- b13. Perform of non-surgical periodontal treatment and monitor treatment
- b14. Perform Restorations of carious and non-carious tooth defects with emphasis on basic concepts of esthetics.
- b15. Perform Basic endodontic procedures.
- b16. Perform Rehabilitation of partially and completely edentulous patients
- b17. Diagnose and preventive of developing malocclusions.
- b18. Apply current infection control guidelines.
- b19. Control different levels of patient's anxiety and apprehension in different age group.
- b20. Manage dental and medical emergencies which may occur in dental practice and perform basic life support measures.
- b21. Prescribe and monitor the effects of appropriate pharmaceutical agents taking into consideration drug and patient factors.

### **c- Intellectual skills:**

By the end of the program, the student should be able to:

- c1. Appraise the physical finding of the diseases on the bases of integration of basic science, biomedical and behavioral science.
- c2. Differentiate between normal and abnormal features that are particularly relevant to dental practice.
- c3. Generate a list of potential patient clinical problems.
- c4. Prioritize a list of potential patient clinical problems.
- c5. Analyze collected diagnostic data to solve clinical problems based on current evidence.
- c6. Integrate collected diagnostic data to solve clinical problems based on current evidence.
- c7. Design appropriate diagnostic and treatment plans for different dental problems.
- c8. Evaluate the effects of medications taken by the patient on dental management.
- c9. Solve clinical problems related to dental practice by intellectual rigor and analytical thinking.

### **d- General and transferable skills:**

By the end of the program, the student should be able to:

- d1. Improve language, presentation and self-expression skills.
- d2. Retrieve and evaluate information from different resources.
- d3. Implement professional responsibility towards the community.
- d4. Demonstrate clear verbal and written communication.
- d5. Work effectively within a team in a limited time frame.
- d6. Practice self-evaluation and criticism.
- d7. Implement the basic concepts of quality assurance and practice management.
- d8. Implement critical thinking and problem solving skills.
- d9. Adopt legal, ethical and professional rules.
- d10. Practice self-learning for continuous improvement of professional knowledge.
- d11. Improve social tolerance and ethical commitment.

### **Career Opportunities**

The graduates may have career opportunities in the fields, which they studied

- Academic Research center.
- Private clinics.
- Ministry of Health.
- Faculties.



# FACILITIES

The Faculty of Dentistry occupies the largest SU building and comprises lecture halls and offices of the dean, vice dean, faculty members, and junior staff on the first, second

### -Total Student Capacity

Facility	Number	Capacity (Students)
Hall	36	5355
Class	26	801
Computer Lab	5	100
Language Lab	1	22
Labs	15	450
Clinic	5	179
Total Capacity		6.907

### -Faculty of Dentistry Facilities Kantara Campus

Facility	Number	Capacity	Total Capacity	Capacity of Student
Hall	1	425	425	5355
	2	220	440	
	16	160	2560	
	2	130	260	
	6	120	720	
	7	110	770	
	2	90	180	
Class Room	23	27	621	801
	3	60	180	
Seminar Rooms	2	27	54	54
Computer Labs	5	20	100	100
Specialized Labs	15	30	450	450
Dummy Head Lab	2	30	60	60
Simulator Lab	2	31	62	62
Medical Clinics	1	14	14	179
	1	16	16	
	1	45	45	
	1	49	49	
	1	55	55	

## Level 1 Semester (1)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DES 1101	Inorganic and Physical Chemistry	1	2	2	None	30	20	50	-	100	2
DES 1102	Physics (1)	1	2	2	None	30	20	50	-	100	2
DEM 1103	General histology	1	2	2	None	30	20	50	-	100	2
DES 1203	Bioscience (1)	2	2	3	None	30	20	50	-	100	2
DEH 1101	Dental Anatomy and Oral Physiology (1)	2	2	3	None	50	30	40	-	100	2
SSE 1101	English (1)	2	-	2	None	50	-	50	-	100	2
SSG 1103	Sinai History	2	-	2	None	50	-	50	-	100	2
SSG01	Scientific Thinking	2	-	2	None	50	-	50	-	100	1
TOTAL				18							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam

## Semester (2)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DES 1201	Organic chemistry	1	2	2	DES 1101	30	20	50	-	100	2
DES 1202	Physics (2)	1	2	2	DES 1102	30	20	50	-	100	2
DES 1203	Bioscience(2)	2	2	3	DES 1103	30	20	50	-	100	2
DEH 1201	Dental Anatomy and Oral physiology (2)	2	2	3	DEH 1101	30	30	40	-	100	2
SSE 1202	English (2)	2	-	2	SSE 101	50	-	50	-	100	2
ENC 1201	Introduction to computer science	1	2	2	None	50	20	50	-	100	2
SSG 2202	Human Rights	1	-	1	None	50	-	25	-	50	1
TOTAL				15							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam

## Level 2 Semester (1)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DEM 2101	Biochemistry (1)	1	2	2	DES 1201	30	20	40	10	100	3
DEM 2104	Human anatomy (1)	1	2	2	None	30	20	40	10	100	2
DEM 2102	Physiology (1)	1	2	2	None	30	20	40	10	100	2
DEM 2107	Microbiology and immunology (1)	1	2	2	None	30	30	40	10	100	2
DEB 2101	Biomaterials (1)	2	2	3	DES 1202	30	20	40	10	100	2
DEH 2102	Oral biology (1)	2	2	3	DEH 1201	30	20	40	10	100	2
DEM 2105	General Pathology (1)	1	-	2	DEM 1103	30	20	40	10	100	2
DED 2103	Dental Ethics	1	-	1	None	25	-	25	-	50	2
TOTAL				17							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam

## Semester (2)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DEM 2201	Biochemistry (2)	1	2	2	DEM 2101	30	20	40	10	100	3
DEM 2204	Human anatomy (2)	2	2	2	DEM 2104	30	20	40	10	100	2
DEM 2202	Physiology (2)	1	2	2	DEM 2102	30	20	40	10	100	2
DEM 2207	Microbiology and immunology (2)	1	2	2	DEM 2107	30	30	40	10	100	2
DEB 2202	Biomaterials (2)	2	2	3	DEB 2101	30	20	40	10	100	2
DEH 2202	Oral biology (2)	2	2	3	DEH 2102	30	30	30	10	100	2
DEM 2205	General Pathology (12)	1	2	2	DEM 2105	30	20	40	10	100	2
TOTAL				17							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam

## Level 3 Semester (1)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DER 3101	Technology of operative (1)	1	4	3	DEB 2202	30	30	30	10	100	3
DEP 3101	Technology of Removable prosthodontics (1)	1	4	3	DEB 2202	30	30	30	10	100	2
DEP 3102	Technology of fixed prosthodontics (1)	1	4	3	DEB 2202	30	30	30	10	100	2
DEM 3106	Pharmacology (1)	1	2	2	DEM 2201	30	20	40	10	100	2
DEH 3103	Oral pathology (1)	2	2	3	DEH 2202	30	20	40	10	100	2
SSG E02	Introduction to psychology	2	-	2	None	50	-	50	-	100	2
TOTAL				16							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam

## Semester (2)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DER 3201	Technology of operative (2)	1	4	3	DER 3101	30	30	30	10	100	2
DEP 3201	Technology of Removable prosthodontics (2)	1	4	3	DEP 3101	30	30	30	10	100	2
DEP 3202	Technology of fixed prosthodontics (2)	1	4	3	DEP 3102	30	30	30	10	100	2
DEM 3206	Pharmacology (2)	1	2	2	DEM 3106	30	20	40	10	100	2
DEH 3203	Oral pathology (2)	2	2	3	DEH 3103	30	20	40	10	100	2
SSG E02	Introduction to business administration	2	-	2	None	50	-	50	-	100	2
TOTAL				16							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam

## Level 4 Semester (1)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DER 4102	Technology of endodontic (1)	1	2	2	DER 3201	30	30	30	10	100	2
DEM 4108	Internal medicine & dermatology (1)	2	2	3	DEM 2205	30	30	40	10	100	2
DER 4101	Clinical operative dentistry (1)	1	2	2	DER 3201	30	30	30	10	100	2
DEP 4101	Clinical removable prosthodontics (1)	1	2	2	DEP 3201	30	30	30	10	100	2
DEP 4102	Clinical fixed prosthodontics (1)	1	2	2	DEP 3202	30	30	30	10	100	2
DEO 4101	Oral & maxillofacial surgery (1)	1	2	2	DEH 3203	30	30	30	10	100	2
DED 4101	Oral medicine & periodontics (1)	2	2	3	DEH 3203	30	30	30	10	100	2
DED 4102	Diagnostic sciences & Oral maxillofacial radiology (1)	2	2	3	DEH 3203	30	30	30	10	100	2
DET 4101	Orthodontics & dentofacial orthopedics (1)	1	2	2	None	30	30	30	10	100	2
DEM 4109	General surgery (1) ENT & Ophthalmology	2	2	3	DEM 2205	30	20	40	10	100	2
TOTAL				24							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam

## Semester (2)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DER 4202	Technology of endodontic (2)	1	2	2	DER 4201	30	30	30	10	100	2
DEM 4208	Internal medicine & dermatology (2)	2	2	3	DEM 4108	30	30	40	10	100	2
DER 4201	Clinical operative dentistry (2)	1	2	2	DER 4101	30	30	30	10	100	2
DEP 4201	Clinical removable prosthodontics (2)	1	2	2	DEP 4101	30	30	30	10	100	2
DEP 4202	Clinical fixed prosthodontics (2)	1	2	2	DEP 4102	30	30	30	10	100	2
DEO 4201	Oral & maxillofacial surgery (2)	1	2	2	DEO 4101	30	30	30	10	100	2
DED 4201	Oral medicine & periodontics (2)	2	2	3	DED 4101	30	30	30	10	100	2
DED 4202	Diagnostic sciences & Oral maxillofacial radiology (2)	2	2	3	DED 4102	30	30	30	10	100	2
DET 4201	Orthodontics & dentofacial orthopedics (2)	1	2	2	DET 4101	30	30	30	10	100	2
DEM 4209	General surgery (2) ENT & Ophthalmology	2	2	3	DEM 4109	30	20	40	10	100	2
TOTAL				24							

N.B: Practical sessions are continuous through August. This summer training is Optional.

\* Twenty marks are devoted to the dermatology and venereal diseases and ophthalmology and ENT courses. Their examinations are held as written examination only in conjunction with the general medicine and general surgery exams respectively.

## Level 5 Semester (1)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DER 5101	Clinical operative dentistry (3)	1	4	3	DER 4201	30	30	30	10	100	2
DER 5102	Clinical endodontic (1)	1	2	2	DER 4202	30	30	30	10	100	2
DEP 5101	Clinical removable prosthodontics (3)	1	4	3	DEP 4201	30	30	30	10	100	2
DEP 5102	Clinical fixex prosthodontics (3)	1	4	3	DEP 4202	30	30	30	10	100	2
DEO 5101	Oral & Maxillofacial Surgery (3)	2	2	3	DEO 4201	30	30	30	10	100	2
DED 5101	Oral Medicine & Periodontics (3)	2	2	3	DED 4201	30	30	30	10	100	2
DEE 5101	Pediatric Dentistry, public Health & community dentistry (1)	2	2	3	DET 4201	30	30	30	10	100	2
DED 5104	Laser application	1	-	1	DED 4202	25	-	-	10	50	2
TOTAL				21							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam

## Semester (2)

Course code	Course title	Credit hours			Prerequisite	Examination marks *				Total Marks	Exam Time (hrs)
		L	p/t	Total		CW	P/T	F.E	Oral		
DER 5201	Clinical operative dentistry (4)	1	4	3	DER 5201	30	30	30	10	100	2
DER 5202	Clinical endodontic (2)	1	2	2	DER 5102	30	30	30	10	100	2
DEP 5201	Clinical removable prosthodontics (4)	1	4	3	DEP 5101	30	30	30	10	100	2
DEP 5202	Clinical fixex prosthodontics (4)	1	4	3	DEP 5102	30	30	30	10	100	2
DEO 5201	Oral & Maxillofacial Surgery (4)	2	2	3	DEO 5101	30	30	30	10	100	2
DED 5201	Oral Medicine & Periodontics (4)	2	2	3	DED 5101	30	30	30	10	100	2
DEE 5201	Pediatric Dentistry, public Health & community dentistry (2)	2	2	3	DEE 5101	30	30	30	10	100	2
DED 5203	Surgical & Prosthetic Implantology	1	-	1	DEO 5101	25	-	25	-	50	2
TOTAL				21							

L= lecture, P/T= practical / tutorial, CW = Course work, F.E. = Final exam



# Departments

## 1- Oral Biology and Pathology Department

### Dental Anatomy & Oral Biology:

This course provides the student with the basic terminology and facts of dental anatomy. It is designed to help them

mastering individual tooth morphology of human deciduous and permanent teeth. It also correlates dental anatomy with physiology. In addition, it provides a wide spectra concerning the arrangement of teeth and occlusion. The dental student must realize that normal occlusion of the teeth in his patients is the ultimate goal of dental practitioner. The study of dental anatomy and physiology furnishes the key to treatment plans in dental maintenance and restoration. Any dental treatment; general or specialized, requires an ultimate detailed knowledge of dental anatomy and physiology. Thereby curriculum is designed to correlate the physiologic tooth form of the teeth with the health of the periodontium. It comprises the study of the fundamentals and preventive curvatures along with the arrangement of teeth in the dental arches and their relation to each other

### Oral Pathology:

It deals with the diseases of the oral cavity and maxillo-facial region. Upon the completion of the course, the student will be able to recognize abnormalities of the oral cavity and the surrounding tissues, to create a list of diseases that may present as a differential diagnosis, and to be able to interpret diagnostic histo-pathological slides, hence it is often impossible to determine the nature of abnormalities by their clinical appearance.

## 2-Prosthodontics Department

### Removable Prosthodontics:

This course is designed to familiarize the students with instruments, materials and laboratory procedures and techniques used to gain experience in the fabrication of maxillary and mandibular complete dentures. The laboratory and clinical procedures will be taught and their interdependence stressed. The students will study the partial denture components and principles of partial denture design.

They will do all the necessary steps for fabrication of chromium-cobalt metallic framework as well as acrylic partial dentures.

This course aims at teaching the dental student a combination of theoretical and clinical knowledge that could be applied to successfully construct complete and partial dentures which fulfills function, aesthetic and psychological requirements. Clinical outline deals with sequential steps for construction of complete and partial dentures. Steps covered in this course are diagnosis, treatment planning, impression making, recording jaw relation, try in and denture insertion Fixed Prosthodontics:

To provide the students with the basics of different principles of tooth preparation, to recognize and to use the different cutting tools and to understand the different technical steps employed in the construction of the various types of restorations. The students will be trained to do proper diagnosis and treatment plan, to practice the clinical application of fundamentals of fixed prosthodontics to prepare teeth as sound foundation for fixed restorations.

### 3-Restorative Dentistry Department

The primary objective is to provide the students with the basic principles, techniques and rationale of operative procedures, instruments, restoratives and their applications to train the students for situations similar to the clinic set-up, and to help them build up their skill and manual dexterity.

The students will be provided with the basic clinical principles, step-by-step procedure on patient reception and management in different operating positions, to control pain and infection, avoidance of occupational hazards, and how to select the restorative of choice technique to be used and how to avoid their biological influences.

#### Endodontics

The students will be provided with the proper macroscopic anatomy of the pulp complex, how to avoid various errors during access cavity preparation, how to use and to maintain endodontic tools, and how to obturate the pulp space using the various endodontic techniques relative to the various materials. By the end of the course, the students will have the knowledge and systemic understanding for proper diagnosis, case selection, treatment plan, modern diagnostic tools, pulp and periapical immunology and periapical pathology, field isolation, prevent and treat the causes of tooth discoloration, be updated with recent technology and to acquire skill and ethical behavior.

### 4-Oral and Maxillofacial Surgery Department

To prepare the student to recognize & to be familiarized with the anatomical consideration & innervations of the facial region, the neurophysiology of pain, pain pathway & pain control, as well as the mode of action of the local anesthetics to control pain, pharmacology of the anesthetic drugs, infection control & protection with special emphasis on how to deal with a viral carrier patients, to familiarize the students with the various anesthetic techniques in the dental practice plus the management of patients receiving local anesthesia. The student should have developed the basic skills of exodontia to diagnose and manage the common post-operative complications, as well as to have an understanding to the basic principles of trans-alveolar extraction (the surgical phase). It is important for each student to recognize the complex surgical problems (surgical extraction of teeth, remaining roots & impacted teeth as well). in treatment of maxillo-facial trauma, infection, its spread and control, cysts of the jaws, congenital deformities and how to manage the minor oral surgical procedures related to the various oral pathological conditions encountered in the maxillo-facial region, such as salivary glands disorders, oro-facial pain and T.M.J. disorders, general principles of management of fractures

## 5-Orthodontics and Dentofacial Orthopedics

This course is directed towards providing the dental student with the knowledge and skills necessary to recognize an established or developing malocclusion and to institute preventive and therapeutic treatment plans within the scope of general dental practice.

## 6-Pediatric Dentistry Department

It provides the guidance of the primary dentition in growth and development, the prevention and treatment of pathological oral conditions which may occur during childhood. In addition, the development of occlusion, preventive orthodontics, space maintainers, restorative orthodontics, restorative dentistry, pulp therapy, traumatic injuries, gingival diseases, dental health education, fluorides, pit and fissure sealants will be studied.

## 7-Oral Medicine, Periodontics, Diagnostic Sciences, Oral Maxillofacial Radiology and Laser Applications Department

It is organized to provide the students with the fundamental principles of oral diseases and pathological mechanisms, in order

to manage various oral lesions properly, disease classifications, clinical signs, symptoms, diagnostic tests and therapeutic goals are presented. Physical signs of systemic disease of dental interest are considered to provide the students with the essentials of assessment and management of medically compromised patient.

It deals with the fundamentals of periodontal problems, and the clinical phenomena in terms of underlying tissue changes and biological nature of periodontal response. Once this aspect is mastered the students are introduced to the diagnostic criteria of periodontal disease and possible prognostic factors,

which may judge the outcome of treatment.

Non-surgical approach for management of periodontal disease and the wide array of pharmacological therapeutic modalities are included in the course. In addition,

various surgical techniques for regenerative and cosmetic purposes are illustrated.

Comprehensive rationale for periodontal treatment is applied in clinical sessions.

It includes the basic principles of patient interview, the fundamentals of physical examination and recognition of oral disease. Principles of biomedicine and interdisciplinary course are through in conjunction with the department of oral pathology, introduces the student to oral diagnosis through didactic presentations concerning patient interview, clinical examination, oral radiology and treatment planning.

### Regarding Laser Applications:

Scientific Background Of Lasers  
Classifications Of Lasers Medical And Dental Lasers

Applications of Lasers in Dentistry

### 8- Dental Biomaterials Department

The primary objective of this course is to present the basic properties of each material, . .to train students to identify

materials properties, and to present applied examples for the dental significances of each property, either physical, rheological, mechanical, electrical, optical, surface phenomena and adhesion or tarnish and corrosion.

### 9-Supplementary General Sciences (DES)

- Chemistry
- Physics
- Bioscience

### 10-Supplementary Medical Sciences (DEM) - Biochemistry

- Physiology
- General Histology
- Human Anatomy
- General Pathology
- Pharmacology
- Microbiology and Immunology
- Internal Medicine
- General Surgery

### Training Opportunities

At the end of undergraduate studies the students have the chance for training on all clinical departments in intern training programs in the faculty and ministry of health hospitals under the supervisions of faculty staff members.

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