

جامعة كفرالشيخ

كلية طب الفم والاسنان

Scientific Content for Faculty of Oral and Dental Medicine Kafrelsheikh University

Course Title	Course Title Course content		number ours	total of
	First year	theoretical	practical	hours
تشريح عام	General anatomy:	<u> </u>	<u> </u>	<u> </u>
, -	Anatomical terms			
	Skin & fascia			
General	Skeletal system			
Anatomy	Muscular system			
	Joints			
	Nervous system			
	Special anatomy:			
	head and neck			
	Scalp			
	Face			
	Parotid region			
	Muscles of mastication			
	Infratemporal fossa			
	Temporomandibular joint			
	Pterygopalatine fossa			
	Dural venius sinsuses			
	Orbit			
	Deep fascia of the neck			
	Posterior triangle of the neck			
	Anterior triangle and its subdivisions			
	Nerves and vessels of the neck			
	Oral cavity and palate			
	Pharynx			
	Larynx			
هستولوجي عام	Cytology – epithelium – nucleus – connective	١	۲	٣
General	tissue – cartilage – bone – blood – lymphatic			
Histology	system – muscular tissue – nervous tissue –			
	vascular system – the skin – histology of			
	digestive glands – histology of endocrine			
	system			
فسيولوجي عام	Blood – central nervous system – respiration –	٣	۲	٥
General	cardiovascular system – endocrine – metabolism			
Physiology	– digestion – autonomic nervous system			
كيمياء حيوية	The main components of living organism and	۲	۲	٤

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	their biochemical importance – carbohydrate		
Biochemistry	chemistry and metabolism – lipid chemistry and		
	metabolism – protein and amino acids chemistry		
	and metabolism – minerals – hemoglobin and		
	myoglobin structure and function – water –		
	body fluids – buffering system – different types		
	of solutions – enzymes		
	Health and illness – parts of the body – function	۲	 ۲
اللغة الإنجليزية	of the body – medical practitioners – allied		
English	health professionals – hospital primary care –		
language	medical education – symptoms and signs –		
	infection – grammar – writing – lexis		
	(confusable words) – why should we exercise		
	regularly? – top major reasons to major in		
	computing – what is science? – the tactics of		
	study – what do you know about chemistry,		
	physics, biology, geology, and zoology –		
	physical fitness – what is democracy? –		
	inventions and inventors – british English vs		
	American English – special difficulties – major		
	abbreviations.	_	
	Definition of different departments in faculty –		
مصطلحات طب الأسنان	define the different morphological parts of the		
الأسنان	tooth		
	study some different terms used basically in		
	dental biomaterials		
Dental	study some different terms used basically in		
terminology	dental anatomy		
	study some different terms used basically in		
	oral biology		
	simple study of some common oral diseases		
	study some different terms used basically in		
	operative dentistry		
	study some different term used basically in		
	prosthodontics		
	study some different term used basically in oral		
	surgery		
	study some different term used basically in		
	endodontic		
	study some different term used basically in		
	orthodontics		
	simple terms used in periodontology and oral		

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	medicine		
	Introduction – evidence based dentistry –	1	 1
علم الجودة	problem solving – decision making – scientific		
	search – evidence appraisal – applying evidence		
Quality	into practice – evaluation of results –		
	introduction to dental ethics – principle features		
	of dental ethics – dentist and patients – dentist		
	and society – dentist and colleagues – ethics		
	and research		
حقوق الإنسان	القانون الجنائي وحقوق الانسان	1	 1
	حق الانسان في تغيير جنسيته او التخلي عن احد جنسيته		
	المواثيق الدولية المتعلقة بحماية حقوق الانسان		
Human rights	العولمة والتنمية بالحقوق الاقتصادية والاجتماعية والثقافية		
	حق الانسان في الشرعية الاسلامية		
	حقوق المراة في القانون العام والتامين الاجتماعي		
	الحق في التقاضى وحقوق الانسان		
	الحقوق المدنية و السياسية		
	الحقوق الاقتصادية للانسان		



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والاسنان	القم	طب	كلية
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	Second year			
ميكروبيولوجي		1	۲	٣
ميدروبيوتوجي	Introduction – general bacteriology – genetics & genetic engineering – host parasite	'	1	'
	relationships – antibiotics & chemotherapy –			
	general virology – hypersensitivity – Antigen			
Microbiology	& Antibody – staphylococci & enterococci –			
	mycobacteria – gram-negative rods –			
	spirochetes- non-enveloped DNA containing			
	viruses – DNA containing viruses – systemic			
	mycology – immunity against bacterial			
	infection – microbiology of dental caries –			
	microbiology of periodontal diseases -			
	guidelines on infection control in dental			
	clinics.			
أدويــة	General pharmacology – autonomic nervous	۲	۲	٤
Dharmaaalagy	system – skeletal muscle relaxants – autacoids			
Pharmacology	- respiration - renal pharmacology - cardio-			
	vascular pharmacology – pharmacology of			
	blood – psycho-neuro- pharmacology –			
	hormones – chemotherapy – drug abuse – drug			
	interactions – vitamins and food supplements – locally action drugs – prescription writing –			
	practical revision			
	practical tevision			
باثولوجيا عامة	Introduction: pathology, its related disciplines	۲	۲	٤
	& technical points – inflammation (acute &			
General	chronic) – healing (repair) – cell injury and			
pathology	cell death – reversible cell injury (
	degeneration) – irreversible cell injury			
	(necrosis-apoptosis) gangrene – circulatory			
	disturbance (thrombosis, embolism, ischemia,			
	infarction, hyperemia, hemorrhage, shock,			
	oedema) – granulomas (tuberculosis, leprosy,			
	bilharziasis, syphilis, rhinoscleroma,			
	actinomycosis) – infectious disease (viral			
	diseases, fungal diseases, protozoal disease) –			

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	Representation University			
	immunity and hypersensitivity (the immune			
	system, immunodeficiency disease,			
	hypersensitivity, autoimmune diseases)-			
	genetic disorders – radiation injury –			
	nutritional deficiencies - cellular adaptation			
	and disorders of growth (atrophy, hypertrophy,			
	hyperplasia, metaplasia, dyplasia) – neoplasia-			
	general principles of neoplasia (classifications,			
	criteria of benign and malignant tumours,			
	grading, staging, methods of spread of			
	malignant tumors) – aetiology of cancer –			
	detailed study of the most common tumours.			
	Introduction – permanent maxillary incisors-	۲	٣	٥
التشريح الوصفى	permanent mandibular incisors- permanent			
Dental	maxillary canine - permanent mandibular			
anatomy	canine - permanent maxillary premolars -			
	permanent mandibular premolars – primary			
	anterior teeth - chronology - permanent			
	maxillary molars - permanent mandibular			
	molars – physiologic tooth form – geometric			
	outline of teeth – primary posterior teeth –			
	occlusion of the primary teeth & permanent			
	teeth.			
خواص المواد	Introduction & structure of matter& Physical	۲	۲	٤
	properties of dental materials - Mechanical			
	properties of dental materials - Hardness			
Dental	&Viscoelasticity- Metals & alloys- Adhesion-			
biomaterial	Corrosion- Polymers and polymerization -			
	Gold alloys - Cobalt-chromium and titanium –			
	Investment- Casting - Wrought dental alloys-			
	Joining of metals- Dental Cement & Cavity			
	liner materials- Dental amalgam- Composite			
	resin- Adhesive systems- Impression			
	materials- Model & Die materials- Dental			
	materials- Moder & Die materials- Demai			
	ceramics& porcelain fused to metals-			

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	materials & artificial teeth- Endodontic			
	materials- Dental waxes- Dental implant			
	materials			
الإسعافات الاولية	First aids & golden rules of first aid -	١	١	۲
First aid	characteristics of first aider- triage and mass			
	causality – general trauma – specific trauma			
	(head trauma, spinal trauma, chest trauma,			
	abdominal trauma) – shock (types &			
	management)- bleeding (types & first aid) -			
	care of patient with burn – care of patient with			
	poisoning- care of drowning - care of common			
	bites & stings – care of fractures – angina &			
	heart attach – contents of first aid kit.			
مكافحة العدوى	Infection control: an overview infection	١	١	۲
	control in dentistry - chain of infection -			
Infection	nosocomial infection & health care associated			
control	infections- standards precautions - concept of			
	hand hygiene – personal protective equipment-			
	proper processing of patient care of equipment:			
	cleaning, disinfection, sterilization-			
	environmental surface control safe waste			
	disposal including sharp instruments- aseptic			
	techniques (applying & removing personal			
	protective equipment – infection control &			
	dental radiology- infection control &			
	occupational health- safety goals & risk for			
	nosocomial infection.			



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A principle de deservory					
	Third year				
تكنولوجيا الاستعاضة	Introduction to the course- Anatomical landmarks	١	٤	0	
الصناعية	related to denture construction- Impression				
Donadinical	trays& Construction of master casts - Record				
Preclinical Removable	blocks				
Prosthetic	Jaw relation terminology for edentulous patient&				
Dentistry	Mandibular Movement- Articulators and				
v	mounting				
	Selection of artificial teeth- Basic arrangement of				
	anterior teeth- Basic arrangement of posterior				
	teeth				
	Complete denture wax-up and flasking				
	procedure-				
	Deflasking of complete denture - Relief in				
	complete denture- Principles of selective				
	grinding, finishing, and polishing of the dentures				
	- Denture repair- Laboratory techniques in				
	relining and rebasing - Types of Removable				
	Partial Dentures and parts of a Removable Partial				
	Denture and their functions- Classification of				
	partially edentulous arches- Surveying of				
	partially edentulous casts				
	Abutment teeth preparation (anterior &. Posterior				
	teeth preparation) - Direct Retainers. (a. Intra-				
	coronal direct retainers, b.Extra-coronal direct				
	retainers: Suprabulge Direct Retainers)				
	Direct Retainers (Infra bulge Direct retainers)				
	Indirect Retainers- Major Connector I. (• General				
	Considerations • Mandibular Major Connectors. •				
	Minor Connectors)				
	Designing removable partial dentures- Lab				
	procedures for removable partial denture				
	construction- Acrylic removable partial dentures				
تكنولوجيا التيجان والجسور	Introduction & terminology- Primary impression	١	٤	٥	

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Preclinical Fixed Prosthodontics	and related procedures- Principles of tooth preparation- 3/4 tooth preparation &modifications Inlays & onlays tooth preparation - Complete cast crown tooth preparation- PFM Preparation-All-ceramic tooth preparation Provisional restorations (Ready-made) 'nd semester- Laboratory steps for cast restoration reconstruction- Working cast and Die fabrication Wax Pattern and spruing- Investment and Investing Burn-out- Dental Casting Alloys- Casting Techniques- Casting Failures- Finishing and Polishing.		
וליייוי וודבים שלי ועדבים ועליייוי וודבים ועליייוי ועדבים	Introduction to Conservative Dentistry Objectives and Terminology - Tooth numbering Dental Caries: -Definition -Classification -Sites and Progression of Caries -Black's classification -Classification according to site and stage principles of Cavity Preparation - biologic principles- mechanical principles - Outline Form Resistance and Retention Form. - Convenience Form -Removal of Remaining Carious Dentin -Finishing Enamel Walls Instruments and Instrumentation *General Classification *Hand Instruments *Powered Cutting Equipment (Hand pieces, Burs, Abrasives) class I- class III-class V Pulp Protection Therapy:	٤	0

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	Artestacks University			
	- Varnishes - Liners - Bases			
	Dental Matrices & separation			
	Amalgam Restoration			
	Composite restoration			
بيولوجيا الفم	Tooth development- Enamel -Dentine	۲	۲	٤
	Cementum – Pulp- Periodontal ligament			
Oral Biology	Embryology - Alveolar bone - Oral mucosa			
	Salivary glands- Eruption Shedding			
	Growth of maxilla and mandible			
	Temporomandibular joint & Maxillary sinus &			
	Lymph drainage of the teeth and oral tissues			
أمراض الباطنة	Cardiovascular system- chest – gastrointestinal –	۲	١	٣
Internal	hepatology - renal - blood - endocrine -			
medicine	neurology – rheumatology			
جلدية وتناسلية	Viral skin diseases with oral manifestations:			
	Herpes simplex Herpes zoster Warts Kaposi's			
Dermatology	sarcoma Fungal diseases: Candidiasis			
	Autoimmune skin diseases with oral lesions:			
	Pemphigus vulgaris Systemic lupus Psoriasis			
	Lichen planus Behcet's disease Erythema			
	multifarma Oral leukoplakia Sexually transmitted			
	diseases: Syphilis AIDS			
جراحة عامة	Anatomy of neck- Thyroid gland, anatomy,	۲	١	٣
	physiology, goiters- Thyrotoxicosis, solitary			
General	thyroid nodule- Malignant thyroid diseases -			
surgery	Wound healing- Parotid gland- Submandibular,			
	sublingual glands- Midline neck swelling- Lateral			
	neck swelling- Shock- Hemorrhage - Cervical			
	lymphadenopathy- Skin tumours- Ulcers,			
	sinuses, fistulae, of the neck- Blood transfusion-			
	Surgical site infections- Post-operative			
	complications - Oral cavity lesions			
انف واذن وحنجرة				
الك وادن وحنجره	Otology (Symptomatology- Clinical Examination.			
ENT				
- · -	Investigations- Differential Diagnosis of Painful For Differential Diagnosis of Discharging For)			
	Ear- Differential Diagnosis of Discharging Ear)			

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	Rhinology (Symptomatology- Clinical		
	Examination- Investigations. DD of Nasal		
	Obstruction: \(\). Diffuse causes- \(\). Septal causes-		
	Causes from the roof-DD of Headache- Nasal		
	Trauma)		
	Pharyngology (Symptomatology- Clinical		
	Examination. Investigations- Differential		
	Diagnosis of Sore Throat-Sleep Disturbances)		
	Nsopharynx (Mouth breathing Management)		
	Anatomy of the eye, orbit and ocular appendages.		
رمد	-Cavernous sinus thrombosis -Anatomy of		
_	midfacial bones, blood supply & innervation - le		
Ophthalmology	Fort fractures -Modified le Fort classification		
	practical points and managementVisual acuity		
	testing, cranial nerves examination. Important		
	causes of visual acuity drop (cataract -		
	endophthalmitis - Age related macular degeneration - glaucoma - diabetic retinopathy -		
	endophthalmitis) -conditions of common interest		
	between ophthalmology and dentistry (Marcus		
	Gunn Jaw Winking - DISEASES causing jaw		
	pain - Behcet disease - Sjogren's syndrome -		
	Ophthalmic complication of dental anesthesia)		
	Differential diagnosis of red eye.		



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	Fourth year			
التشخيص	Introduction to oral diagnosis - Diagnostic	١	۲	٣
Oral Diagnosis	Chart – Patient history – Clinical examination – Extra-oral examination – Intra-oral			
	examination - Lymph nodes - Laboratory			
	aids to diagnosis — Biopsy — Peripheral oral			
	Exophytic lesions – Advanced diagnostic technique – Methods of differential diagnosis			
	of oral ulcer – Methods of differential			
	diagnosis of red & white lesions – Diagnosis			
	of oro-facial pain.			
التيجان والجسور	Diagnosis and treatment planning - Tooth	١	٣	٤
T. 1	loss and bridge types - Framework design and			
Fixed Prosthodontics	metal selection for metal ceramic restoration -			
Trostilodolitics	Pontic design – Connectors - Color and shade			
	selection - Porcelain application for metal			
	ceramic restoration - Try-in procedure in FPD			
	- Luting agents and cementation procedures - Principal of occlusion - Bite registration -			
	Laser - Restoration of endodontically treated			
	teeth.			
باثولوجيا الفم	Introduction & ental Caries – Pulp Lesions –	۲	۲	٤
·	Periapical Lesions – Osteomyelitis – Oral			
Oral Patholoy	Cysts – Developmental Anomalies of Oral &			
	paraoral structures - Odontogenic Tumors -			
	Bone Lesions – Reactive Lesions – White			
	Lesions – Premalignant Lesions – Benign			
	Non odontogenic Tumors – Malignant Non			
	odontogenic Tumors – Salivary Gland Diseases – Salivary Gland Tumors.			
	Introduction to LA – Pharmacology of LA	١	۲	٣
جراحة الفم والتخدير	drugs and Vasoconstrictives – Armamentaria			
جراحة الفم والتخدير الموضعى	 General considerations for LA delivery – 			
Oral Surgery	Anatomical considerations – hemoglobin and myoglobin structure and function – Maxillary			

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	*Republication Convergery			
	techniques – Mandibular techniques –			
	Supplementary & Extraoral techniques –			
	Local complications of LA – Systemic			
	complications of LA and drug-drug			
	interactions – Dental extraction Surgical			
	extraction— Impaction — Complications of			
	extraction – Medically compromised patients.			
الاستعاضة الصناعية	Diagnosis and Mouth Examination - Prin	١	۲	٣
	Impressions – Secondary Impression Theories			
Removable	Making - Retention and stability of comp			
prosthodontic	denture – Face bow and			
department	articulator – Jaw Relation – Try-In –			
	Denture insertion – Occlusal disharmony and			
	Selective grinding – Patient complaints			
	Relining and rebasing of Complete denture –			
	Treatment of some complete denture problem			
	Management of flat Ridges			
	and neutral zone technique Single Comp			
	Denture –			
	Tooth supported over denture – Immed			
	complete			
	&Partial dentures – Complete denture			
	occlusion – Implant supported over denture –			
	Geriatrics.			
أشعة الفم	Radiation physics – Radiation characteristics	١	۲	٣
Oral Radiology	Dental x-ray equipment & film – Normal			
	anatomy			
	Intra-oral Radiographic Techniques			
	(Periapical, Bitewing & Occlusal) -			
	Paralleling technique – Bisecting technique –			
	Bite wings technique Processing – Errors			
	Occlusal & localization technique –			
	Radiation protection & infection control –			
	Radiation biology Dental X-ray image			
	characteristics – Panoramic radiograph –			
	Extra-oral technique and landmarks Digital			
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	radiograph— Principles of radiographic			
	interpretation – Interpretation of periodontal			
	diseases Interpretation of caries –			
	Interpretation of traumatic injury			
	Inflammatory jaw lesions – Cyst of the jaws			
	−Bone diseases − Bone tumors − advanced			
	techniques (MRI- CT- Cone Beam).			
	Preliminary consideration of operative	١	٣	٤
طب الأسنان التحفظي	procedures – treatment planning –biological			
	consideration of restorative materials -			
Conservative	treatment of incipient caries -treatment of			
Dentistry	moderate and deep carious lesions - non			
	carious lesions – dentine hypersensitivity –			
	glass ionomer – adhesion.			
علاج الجذور	Scope of endodontic- internal anatomy-	1	٣	٤
	instruments- access opening- working length			
Endodontic	determination- apex locator- irrigation-			
	cleaning and shaping- rotary instrumentation-			
	obturation materials- endodontic techniques-			
	endodontic sealer- endodontic misshapes-			
	case selection.			
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	Restoring contact and contours- classII ,IV, V	١	٤	٥
طب الاسنان التحفظي	direct composite- Posterior composite-			
Conservative	indirect tooth colored restorations- Additional			
Dentistry	conservative esthetic procedure- laser in			
_ = ======	operative dentistry- Failure of restorations-			
	Repair versus failure			
التيجان والجسور	Periodontal consideration In FPD- Esthetic	`	٤	0
Fixed	consideration In FPD- All-ceramic			
Prosthodontics	restorations- Fiber reinforced composite			
1 1 ostilodolitics	restoration- Resin bonded restorations-			
	Porcelain laminate veneers- Implant			
	supported prosthesis- Retainers- Care and			
	maintenance- Failures of fixed			
	prosthodontics- Repair of crown and bridge-			
• • • •	Removal of fixed prostheses	.,		
طب القم	Basic immunity- Allergy- White and red	۲	۲	٤
Oral medicine	lesions- Ulcerative and vesiculobullous			
Of all medicine	lesions of the oral mucosa- Tongue diseases-			
	Blood dyscrasias- Bleeding and clotting			
	disorders- Dental management of systemic			
	diseases- Infectious diseases (AIDS)-			
	Hyperpigmentation- Salivary gland diseases- Medical chart			
أمراض اللثة	Anatomy of the periodontium- Dental	۲	۲	٤
	plaque- Microbial Interactions with the Host-			
Periodontology	Classification of periodontal Diseases- Dental			
	calculus & Local Predisposing Factors in			
	periodontal disease- Influence of Systemic			
	Disorders on the Periodontium- Gingival			
	inflammation and Acute gingival conditions-			
	Gingival enlargement- Plaque control-			
	periodontal chart- Instrument and			
	instrumentation- Chronic periodontitis +			
	Periodontal pocket- Aggressive periodontitis			

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والاسنان	الفم	طب	كلية
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	A included loweray			
	+ Periodontal abscess- Determination of the			
	prognosis + Treatment plan-			
	Chemotherapeutic agents- Periodontal flaps			
	and the flap technique for pocket therapy-			
	Gingival surgical techniques- Furcation			
	involvement- Osseous Surgery- Regenerative			
	techniques- Mucogingival surgery- Supra and			
	sup gingival scaling and root planing			
جراحة الفم والوجه	Revision on dental extraction- Preprosthetic	۲	٣	٥
والفكين والتخدير	surgery- Orofacial infections- Cysts of the			
العام	oral and para-oral region- Oral and			
Oral and	maxillofacial tumours- Dental and			
Maxillofacial	maxillofacial traumas- Temoporomandibular			
Surgery	joint disorders- Salivary gland diseases- Craniofacial deformities			
	Ethics and medico-legal issues.	۲	۲	٤
تقويم الأسنان	Growth and development of the head.	,		
- \	Development of normal occlusion.			
	_			
Orthodontics	Etiology of malocclusion.			
	Terminology and classification of			
	malocclusion.			
	Diagnostic procedure in orthodontics.			
	Biomechanical principles in orthodontics.			
	Tissue changes in orthodontics.			
	Iatrogenic effects in orthodontics.			
	Sequele of untreated malocclusion.			
	Preventive orthodontics.			
	Interceptive orthodontics.			
	Orthodontic appliance design.			
	Therapeutic extraction.			
	Adjunctive orthodontics.			
	Orthodontic retention and relapse.			
	Impressions and wire bending.			
	Description of normal occlusion.			
	Problem based learning			
طب أسنان الأطفال	Pedodontics: Development of dentition,	۲	۲	٤
وصحة الفم	teeth eruption- Differences between primary			

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Pediatric	and permanent dentition- Development of			
	occlusion- Preventive orthodontics and space			
	management- Problems in early mixed			
Dentistry and Dental Public	dentition- Interceptive Orthodontics- Oral			
Health	Habits- Caries In Children- Basic behavioral			
	guidance technique- Advanced behavioral			
	guidance technique- Examination and			
	Radiology in pediatric dentistry-			
	psychological and pharmacological			
	management in children- Oral surgery in			
	children (L.A and exodontia)- Restorative			
	Dentistry (Class I, Class II, Class V,			
	strip crowns)- Restorative Dentistry			
	(Stainless Steel Crowns)- Pulp Therapy in			
	children (Pulpotomy)- Pulp Therapy in			
	children (Pulpectomy)- Pulp therapy in young			
	permanent dentition- Traumatic injuries in			
	primary dentition- Traumatic injuries in			
	young permanent dentition- Children with			
	special needs (Medically compromised)-			
	Children with special needs (Intellectually			
	disabled)- Gingival diseases in children.			
	Public health: epidemiology of dental caries,			
	caries indices, epidemiology of periodontal			
	diseases, periodontal indices, caries risk and			
	caries assessment, fluoride, fissure sealant,			
	minimally invasive dentistry, a traumatic			
	restorative technique, health education.			
الاستعاضة الصناعية	Introduction and diagnosis for partial denture-	1	٤	٥
	Mouth preparation- Impression techniques for			
Removable	R.P.D- Occlusal relationships for R.P.D-			
prosthodontic	Class I- Class II- Class III and Class IV- Try			
department	in & insertion for R.P.D- Patient Complains-			
	Tissue damage- Introduction to maxillofacial			
	prosthesis- Acquired maxillary defect-			
	Congenital defect- Stent- splint- Radiation			
	O			

وكيل الكلية لشئون التعليم والطلاب عميد الكلية (أ.د/ أمنية مجد وهبة) (أ.د/ إيناس أحمد الجندى)

Faculty of Oral &Dental Medicine



جامعة كفرالشيخ

	علاج الجذور	Diagnosis	١	٣	٤		
		Endodontic radiography					
Endodontic	Periapical pathosis						
	Endodontic emergency						
		Management of incompletly formed roots					
		Vital plup therapy					
		Endo-perio problems					
		Traumatic injuries					
		Periapical surgery					
		Restoration of endodontically treated teeth					
		Bleaching					