

عناوين مشاريع الأبحاث للفرق الدراسية من الأولى إلى الرابعة للعام الجامعي ٢٠١٩-٢٠٢٠م بكلية طب الأسنان- جامعة الفيوم

مشاريع الفرقة الأولى

Course title	Course code	Course director(s) emails	Research topics
General anatomy	GAN 1	د/ مها خالد عبد الواحد mka02@fayoum.edu.eg C.C. د/ وليد محمود رجب wmr01@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Anatomy of muscles of masticating. 2- Anatomy of temporomandibular joints and anatomy of muscles acting on it. 3- Anatomy of parotid gland. 4- Anatomy of post triangle. 5- Anatomy of oral cavity and tongue. 6- Anatomy of submandibular gland.
General Histology & cell biology	GHI 1	د/ محمد صلاح الجندي msg01@fayoum.edu.eg C.C. د/ نهاد احمد صادق nas04@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Mitochondria in health and disease with special reference to its histological structure. 2- Red blood corpuscles with special reference to their adaptation to perform function. 3- How lymph nodes deal with different antigens with reference to its histological structure. 4- Dynamics of epidermis regeneration with reference to normal histology of skin. 5- Histological structure of peripheral nerve and the possible role of neural stem cells in its regeneration.
General Physiology	GPH 1	د/ حامد عثمان dr_hosman52@hotmail.com C.C. د/ امانى الأمين ama65@fayoum.edu.eg	<p><u>I-Write a full research on:</u></p> <ol style="list-style-type: none"> 1- Calcium homeostatic hormones. 2- Somatic sensory pathways. 3- Hypoxia. 4- Glomerular filtration rate (definition, factors affecting).



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			<p><u>II-Write a full research on:</u></p> <ol style="list-style-type: none"> 1- Hormones responsible for normal blood glucose. 2- Pain control. 3- Lung surfactant. 4- Renal tubular functions. <p><u>III-Write a full research on:</u></p> <ol style="list-style-type: none"> 1- Diabetes mellitus (definition, types, biochemical changes and manifestations). 2- Sensory receptors. 3- Control of respiration. 4- Mechanism of micturition in infants and adults. <p><u>IV-Write a full research on:</u></p> <ol style="list-style-type: none"> 1- The intracellular hormone mediators. 2- Pain sensations 3- Intra-pleural pressure 4- Glomerular filtration rate (definition, factors affecting). <p><u>V-Write a full research on:</u></p> <ol style="list-style-type: none"> 1- Calcium homeostatic hormones. 2- Sensory receptors. 3- Static and dynamic lung volumes. 4- Renal tubular functions.
Biochemistry	BCH 1	<p>د/ عمرو على إبراهيم زهرة aaz00@fayoum.edu.eg C.C. د/ شيرين رشاد bioden520@gmail.com</p>	<p>1- Vitamin D and its impact on oral health</p> <ul style="list-style-type: none"> ➤ Metabolism of Vitamin D ➤ Dietary sources ➤ Regulation of calcitriol synthesis ➤ Functions of Vitamin D ➤ Deficiency ➤ Role in oral health ➤ Daily requirement



Course title	Course code	Course director(s) emails	Research topics
			<p>2- Vitamin A and its impact on oral health</p> <ul style="list-style-type: none"> ➤ Metabolism of Vitamin A ➤ Dietary sources ➤ Provitamin A precursor, carotenoid ➤ Functions ➤ Deficiency ➤ Role in oral health ➤ Daily requirement <p>3- Vitamin C and its impact on oral health</p> <ul style="list-style-type: none"> ➤ Metabolism ➤ Dietary sources ➤ Functions ➤ Deficiency ➤ Role in oral health ➤ Daily requirement <p>4- Diabetes and its oral complications</p> <ul style="list-style-type: none"> ➤ Definition of diabetes ➤ Causes ➤ Types ➤ Complications ➤ Diagnosis <p>5- Calcium ad oral health</p> <ul style="list-style-type: none"> ➤ Introduction ➤ Sources ➤ Supplements ➤ Metabolism ➤ Regulation ➤ Excretion ➤ Excess intake ➤ Function and physiological action ➤ Role in oral health



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			<p>➤ Requirement during infancy, adolescence, adulthood, elderly, pregnancy, lactation</p>
Dental Anatomy	DAN 1	<p>د/ دينا حسونة dmm11@fayoum.edu.eg</p>	<p><u>Select Only One Topic from the Following research project:</u> <u>Illustrate the selected topic with Figures and Tables (obligatory):</u></p> <ol style="list-style-type: none"> 1- Dental Anatomical landmarks and the morphological variations in pulp cavities characterizing different aspects of maxillary anterior teeth (upper 1, upper 2 & upper 3). Illustrate your research with figures and tables. 2- Dental Anatomical landmarks and the morphological variations in pulp cavities characterizing different aspects of mandibular anterior teeth (lower 1, lower 2 & lower 3). Illustrate your research with figures and tables. 3- Dental Anatomical landmarks and the morphological variations in pulp cavities characterizing different aspects of maxillary & mandibular Premolars (upper 4&5 - lower 4&5). Illustrate your research with figures and tables. 4- Dental Anatomical landmarks and the morphological variations in pulp cavities characterizing different aspects of maxillary molars (upper 6, upper 7 & upper 8). Illustrate your research with figures and tables. 5- Dental Anatomical landmarks and the



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			<p>morphological variations in pulp cavities characterizing different aspects of maxillary molars (lower 6, lower 7 & lower 8). Illustrate your research with figures and tables.</p> <p>6- The changes which occur in the mandible and teeth at birth, 3 years, 9 years, adult and old age. Illustrate your research with figures and tables.</p> <p>7- Facial and proximal geometric crown outlines of upper and lower teeth and its physiological importance regarding proximal contact areas and Facial height of contours. Illustrate your research with figures and tables.</p> <p>8- The relations between upper and lower posterior teeth in centric occlusion. Illustrate your research with figures and tables.</p>
Computer science & dental informatics	CSC1	<p>د/ مسعود شاهين masoud.shaheen@fayoum.edu.eg</p>	<p>1- Classification of Computers and its usage in your field</p> <p>2- Advantages and Disadvantages of Computers, and its usage in your field</p> <p>3- Similarities Difference between computer and Human, and its usage in your field</p> <p>4- Components of a Computer System, and its usage in your field</p> <p>5- Computer Software, and its usage in your field</p> <p>6- Programming Languages of computer, and its usage in your field</p>



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English	ENG1	د/ محمد حسن mam26@fayoum.edu.eg	students will be asked to write on ONE of the following topics: 1- Employability Skills; 2- Creativity at work and in life; 3- Health and Fitness; 4- Friends and Social Life; 5- Money as a Double-Edged Weapon



مشاريع الفرقة الثانية

Course title	Course code	Course director(s) emails	Research topics
Oral Biology	OBI 1	د/ دينا حسونة dmm11@fayoum.edu.eg	<ol style="list-style-type: none"> 1- The role of saliva with special concern to immune system and regeneration power in salivary gland acini and salivary duct cells. Illustrate your research with figures. 2- The histological and morphological changes that occurs in odontoblast with special concern to dentinogenesis. Illustrate your research with figures. 3- The changes which occur in alveolar process during bone remodeling. Illustrate your research with figures. 4- The ultra and surface structures of enamel. Illustrate your research with figures. 5- The histology of pulp and periodontal ligament. Illustrate your research with figures. 6- The histology of specialized mucosa. Illustrate your research with figures. 7- The histology of tempromandibular joint. Illustrate your research with figures.
Dental Biomaterial	DBM 2	د/ غادة القرنفلي gah11@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Recent advances and future prospective in Ceramics. 2- Recent advances and future prospective in Resin Composites. 3- Recent advances and future prospective in Dental cements. 4- Natural products in dentistry.



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Pharmacology	PHA 2	د/ حنان عبدالمنعم shamrdaldrhanan@gmail.com	<ol style="list-style-type: none"> 1- Comparing between Pharmacology of heparin and warfarin 2- Pharmacological effect of morphine (its receptors, central and peripheral actions, Side effects and contraindication) 3- Pharmacology of NSAIDs, (classification, Pharmacological effect of aspirin (its receptors, central and peripheral actions, Side effects and contraindication) 4- Classification of Beta lactam antibiotics, their bacterial spectrum, bacterial resistance, side effects 5- Classification of protein synthesis inhibitor antibiotics, their bacterial spectrum, bacterial resistance, side effects 6- Types of local anesthetics (classification, side effects, different routes of administration) 7- Pharmacology of glucocorticoids (Action, clinical uses, preparations, side effects and contraindication) 8- Pharmacology of oral hypoglycemic agents (mechanism of action, example of drugs, side effects and drug interaction)
General Pathology	GPA 2	د/ ريهام شهاب fay.dent.path@gmail.com	<ol style="list-style-type: none"> 1- thrombosis mechanism and complications. 2- The differential criteria of benign and malignant tumors. 3- Acute inflammation mechanism and types. 4- Types of irreversible cell injury.



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			<p>5- Repair: mechanism, Types and complications.</p> <p>6- Disorders of cell growth :diffinations and examples.</p>
Microbiology	MBI 2	<p>د/ الشيماء جمعة sga11@fayoum.edu.eg</p>	<p>1- Dental Caries: etiology, diagnosis, prevention, and treatment</p> <p>2- Gingivitis: etiology, diagnosis and treatment</p> <p>3- Periodontitis: etiology, diagnosis and treatment</p> <p>4- Implantitis: etiology, diagnosis and treatment</p> <p>5- Pulpitis: etiology, diagnosis and treatment</p> <p>6- Halitosis: etiology, diagnosis and treatment</p> <p>7- Pharyngitis: etiology, diagnosis, prevention, and treatment</p> <p>8- Tonsillitis: etiology, diagnosis, prevention, and treatment</p> <p>9- Leukoplakia: etiology, diagnosis and treatment</p> <p>10- Stomatitis: etiology, diagnosis and treatment</p> <p>11- Anaerobic oral infections: etiology, diagnosis and treatment.</p> <p>12- Hypersensitivity: types, mechanism of each type, give examples, and treatment</p>
Infection control	ICO 2	<p>د/ إنجي سلام ea08@fayoum.edu.eg</p>	<p>1- Infection prevention and control in dental clinic during pandemic COVID-19</p> <p>2- Dental unit water line challenge and environmental surface infection control in dentistry, considering the recent guideline for COVID-19 pandemic.</p> <p>3- Management of occupational exposure to blood or other body fluid hazard special consideration</p>



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			during COVID-19 outbreak. 4- Infection control in dental radiography and dental lab considering the recent guideline for COVID-19 pandemic.



مشاريع الفرقة الثالثة

Course title	Course code	Course director(s) emails	Research topics
Technology of Conservative Dentistry	TGD3	<p>د/ مها القرشي mek11@fayoum.edu.eg C.C. د/ أحمد حمدي aha15@fayoum.edu.eg د/ أحمد زكريا azs11@fayoum.edu.eg</p>	<ol style="list-style-type: none"> 1- Recent advances in pulp capping materials. 2- Recent advances in matrices and wedges. 3- Finishing and polishing tools used for resin composite restorations. 4- Recent trends in resin composite materials.
Technology of Prosthetic dentistry	TRP 3	<p>د/ عمرو صلاح asa33@fayoum.edu.eg C.C. د/ محمد مروان mms20@fayoum.edu.eg</p>	<ol style="list-style-type: none"> 1- Illustrative recent clinical and laboratory steps for complete denture construction. 2- The importance of Mandibular movements and theories of occlusion in complete denture construction. 3- Maxillary and mandibular landmarks in complete denture bearing areas (support, relief and limiting structures) 4- Recent advances in esthetic partial denture design. 5- The effect of different component on partial denture design and Functional forces acting on R.P.D.



Course title	Course code	Course director(s) emails	Research topics
Technology of Fixed Prosthodontics	TFP 3	د/ نرمين ناجي nns02@fayoum.edu.eg C.C. د/ علياء محروس aim11@fayoum.edu.eg د/ هيثم عمرو ham10@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Alternatives to casting. 2- Recent advances in fabrication of all-ceramic restoration. 3- Waxing-up conventional versus digital techniques. 4- Recent advances in soft tissue management in fixed prosthodontics “preparation, impression & cementation” 5- Conventional versus digital impression techniques.
Oral and maxillofacial Radiology 1	ORA 3	د/ إيناس أبو المجد ea07@fayoum.edu.eg C.C. د/ إنجي سلام ea08@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Digital radiography 2- Radiation hazards 3- Radiation protection 4- Biological hazards of radiation
Oral Pathology	OPA 3	د/ سالي إبراهيم sim11@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Syndromes associated with hyper & hypodontia. 2- HPV associated oral lesions. 3- Childhood tumors affecting oral tissues. 4- SCC updated grading systems & differential diagnosis for each intra oral site. 5- Amelogenesis imperfecta & dentinogenesis imperfecta updated genetic background & associated syndromes. 6- Mucoepidermoid carcinoma updated grading systems. 7- Craniofacial bone diseases associated with defects in Osteoclastogenesis. 8- Mucoepidermoid carcinoma updated grading systems and differential diagnosis



Course title	Course code	Course director(s) emails	Research topics
General medicine, skin and venereal disease	GMI 3	د/ سامر سمير samersms4@hotmail.com	Complications of diabetes mellitus
General Surgery, Ophthalmology And ENT	GSR 3	For topic 1,2,3 د/ سامح الجندي smg12@fayoum.edu.eg For topic 4 ENT د/ وسيم ميخائيل drwassimmikhael@gmail.com	1- Local anaesthesia : Types, mechanism of action, uses, risks and side effects. 2- Oral sores: Pictures causes, types, treatments and prevention 3- Hemostasis: mechanism, and topical hemostatic in surgical practice 4- ENT Maxillary sinus: Anatomical background Acute&chronic inflammations & complications Traumatic conditions Tumours of maxillary sinus + Cysts and polyps of maxillary sinus



مشاريع الفرق الرابعة

Course title	Course code	Course director(s) emails	Research topics
Oral medicine and Diagnosis1	OME 4	د/ نيروز عبدالفتاح nam05@fayoum.edu.eg C.C. د/ شيماء نصر ssm11@fayoum.edu.eg د/ رانيا شلبي rhs11@fayoum.edu.eg	<ol style="list-style-type: none"> 1- New treatment advances in lichen planus 2- Recurrent aphthous stomatitis recent treatment modalities 3- Non-surgical therapeutic approaches for leukoplakia 4- Erythema multiform classification and treatment
Periodontology 1	PDO 4	د/ نيروز عبدالفتاح nam05@fayoum.edu.eg C.C. د/ شيماء نصر ssm11@fayoum.edu.eg د/ رانيا شلبي rhs11@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Role of P. gingivalis and A.a in periodontal disease 2- Inflammatory mediators related to bone resorption in periodontal disease 3- The bidirectional relationship between diabetes mellitus and periodontal disease 4- The effect of vitamin D deficiency on periodontal disease
Oral and maxillofacial Radiology 2	ORA 4	د/ إيناس أبو المجد eaa07@fayoum.edu.eg C.C. د/ إنجي سلام eaa08@fayoum.edu.eg	<p><u>(Throwing light on their clinical and radiographic features in various radiographic modalities and their differential diagnosis)</u></p> <ol style="list-style-type: none"> 1- Periapical radiopaque lesions of the jaw. 2- Multilocular radiolucent lesions of the jaw. 3- Multiple separate radiolucent lesions of the jaw. 4- Hematological disorders with bone manifestation



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Oral and maxillofacial surgery 1	OMS 4	د/ الشيماء أحمد aas16@fayoum.edu.eg C.C. د/ هيثم المحلاوي has05@fayoum.edu.eg د/ شيماء محسن smr11@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Advanced techniques and armamentarium in local anesthesia. 2- Wound healing following tooth extraction. 3- Dental management of patients with liver disease 4- Management of Oro-antral communication 5- Management of patients with bleeding disorders. 6- Suturing materials and techniques
Conservative Dentistry 1	CDE 4	د/ ميادة سلطان msa19@fayoum.edu.eg C.C. د/ مها القرشي mek11@fayoum.edu.eg C.C. د/ سيلفيا صبري sst11@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Recent advances in materials and equipments used for gingival retraction. 2- Recent tools used for diagnosis of dental caries. 3- Recent advances in methods and tools used for moisture control. 4- Recent advances in remineralization of dental caries.
Removable Prosthodontics 1	PRO 4	د/ عمرو عمارة aam28@fayoum.edu.eg C.C. د/ عمرو صلاح asa33@fayoum.edu.eg	<ol style="list-style-type: none"> 1- Complaints for complete and partial denture. 2- Diagnosis is the key of successful Treatment Plane for complete and partial denture. 3- Biomechanical considerations and Kennedy problems for different classes for Removable partial denture Design 4- Forces acting and Factors Influencing stresses transmitted in RPD 5- Recent advances in complete denture



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Fixed Prosthodontics 1	FPR 4	<p>د/ هيثم عمرو ham10@fayoum.edu.eg C.C. د/ علياء محروس aim11@fayoum.edu.eg د/ نرمين ناجي nns02@fayoum.edu.eg</p>	<ol style="list-style-type: none"> 1- Recent diagnostic tools in fixed prosthodontic 2- Effect of different pontic design on mechanical performance of fixed bridge (PFM & all ceramic) 3- Different designs of all ceramic partial coverage. 4- Effect of different connector designs on mechanical performance of fixed restorations (PFM & all ceramic) 5- Effect of cement selection on durability of fixed restorations. 6- Effect of post selection on fracture resistance of remaining tooth structure.
Technology of Endodontics	END 4	<p>د/ لمياء إبراهيم lai11@fayoum.edu.eg C.C. د/ محمد ناجح mnt12@fayoum.edu.eg د/ سارة الملاح sss07@fayoum.edu.eg</p>	<p>1- Dental pulp is a richly vascularized and innervated tissue, enclosed by surrounding tissues that are incapable of expanding, such as dentin. All of these characteristics severely constrain the defensive capacity of the pulp tissue when faced with the different injuries it may be subjected to and, Due to the fact that the periapical disease is almost inevitably preceded by pulp disease:</p> <p>- Describe the <i>nature of the pulp tissues</i>, the main <i>cause and course of illness of pulp and periapical diseases</i> in details.</p> <p>Then Judge the <i>Correlation between clinical/ radiographic and histological findings</i> of pulp and periapical diseases and state if any <i>precautions</i> to be taken or any <i>deviation</i> from the regular endodontic treatment procedures are required in treating these</p>



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			<p>lesions.</p> <p>2- Recently, conservative access cavity preparation for teeth undergoing root canal therapy have been widely discussed in the literature. State how the <i>root canal morphology</i> affects the different <i>access cavity designs</i> and give with <i>justification</i> your own opinion about these new design also Correlate between <i>instrument design</i> and <i>instrumentation technique</i> for root canal preparation to eradicate bacterial loads in cases with necrotic pulp and infectious periapical disease, mentioning the appropriate selection of <i>Obturation technique</i> for different root canal complexities.</p> <p>3- Endodontic infections differ from other Infections due to the fact that they occur in a complex, enclosed environment. Discuss the statement regarding:</p> <ul style="list-style-type: none"> - The endodontic <i>microbiology</i>. - Maintenance of the <i>chain of asepsis</i> throughout the whole procedures of endodontic treatment.
Orthodontics	ORT 4	<p>د/ عادل رشيد arh12@fayoum.edu.eg C.C. د/ هانم الفقي hyb11@fayoum.edu.eg د/ شيرين المحلاوي sam25@fayoum.edu.eg</p>	<p>1- Diagnosis And Treatment Of Class II Malocclusion.</p> <p>2- Diagnosis And Treatment Of Class III Malocclusion.</p> <p>3- Bad Habits That Could Be Etiological Factors For Malocclusion And Different Methods To Control These Habits.</p>



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			4- Crowding; Methods Of Assessment And Management. 5- Orthodontic Appliances.

ملحوظة:

- على كل طالب اختيار موضوع واحد فقط في كل مقرر من مقررات الفرقة المقيد بها.
- يراعى تسليم الأبحاث في المواعيد المحددة طبقاً للجدول المعلن من كمنترول الفرقة.

مع أطيب الأمنيات بالنجاح والتوفيق

لكل أبنائنا وبناتنا الأعزاء ، ،