



مفردات المقررات لقسم طب الأسنان المستوى الثالث

1) Endodontics

This course aims to:

1. Introduce the students to the terminology of root canal treatment and the anatomy and morphology of the pulp spaces in all teeth.
2. Provide the students with the knowledge of fundamental operative procedures like Access cavity preparation, cleaning and shaping, and obturation of root canal System successfully.
3. Give the students the complete knowledge of the various endodontic instruments, Their applications and the ability to identify them and differentiate them from one another.
4. Give the students the sufficient knowledge of the different endodontic obturation Materials, their composition, forms, properties, handling and application.
5. Provide the students with the needed practical training to have the ability to I Perform endodontic procedures on an extracted single-canal or a multi-canal tooth I Using the proper canal preparation and obturation techniques.
6. Demonstrate the most common mishaps, their causes, prevention, recognition and management .

2) fixed prosthodontics

This course aims to:

1. Define and explain the concepts of the science and art of fixed prosthodontics, and its scientific, Practical, and economic importance.
2. Introduce students to the hardware, materials and tools used in teeth preparation and dental training in Phantom lab.
3. Educate and train student about dental preparation skills for different types of fixed prosthodontics and their laboratory manufacturing procedures.
4. Help students to learn and apply fixed prosthodontic restoration procedures to make a restoration from Design step to the final insertion and so it prepares the students to start the next clinical year.

3) General pathology

1. This introductory course provides the students with the essential basic scientific knowledge required To understand in an integrated manner the structure and functional deviations from the normal in the Various body systems and organs.
2. To familiarize students with the basic pathology.
3. To make the students understand the etiology, pathogenesis and pathologic manifestation of disease process



4) Local anesthesia

- 1- **Knowledge and understanding** Understand the applied surgical anatomy and the neuroanatomy of the head and neck.
2. Know the physiology of pain and pain conduction in order to understand the mechanism of action of anesthetic agents.
3. Know the pharmacokinetics and the mode of action of various local anesthetic agents, the techniques employed to block nerve conduction and produce anesthesia.
4. Understand the possible complications, their etiology, signs and symptoms, prevention and their management.
5. Know the methods and techniques employed to institute infection control measures, sterilization, asepsis and disinfection.
6. Recognize and manage the different possible complications that may be encountered during or after administration of local anesthesia.

5) Medical microbiology and immunology

1. Introducing major groups of microorganisms and their characteristics
2. Developing a basic understanding of microbe-host interactions, infectious diseases, and their modes of spread with particular reference to dentistry
3. Describing components, functions, mechanisms as well as disturbances of the immune system
4. Introducing principles of infection control, immunization and antimicrobial therapy
5. Introducing major bacterial, viral and fungal infections by organ systems
6. Developing a basic understanding of oral microbiology and pathogenesis of periodontitis and dental caries
7. Familiarization with specimen collection procedure, basic laboratory diagnostic techniques and interpretation of their results.

6) operative dentistry 2

This course aims to:

1. Provide a basic and fundamental knowledge about dental carious lesion process
2. Teach students the instruments and equipment for dental hard tissue cutting and Removal
3. Train the students practical skills and techniques of teeth preparation and restoration
4. Train the students to participate in dental health education.

7) Oral diagnosis

This course aims to:

1. Record medical, dental and social history and undertake relevant general and oral Examination in a range of clinical setting for all categories of patients.
2. Interpret and understand the significance of the medical, dental and social history and Identify necessary course of action.
3. Summarize and synthesize clinical findings to identify differential diagnosis and conduct Appropriate investigation.



4. Interpret radiograph and results/report from laboratory investigations commonly requested in dentistry.
5. Formulate a treatment plan appropriate to the patient's conditions circumstances and Wishes in which the various components are effectively integrated.
6. Identify etiology of halitosis and. Protective procedures of the dentists against occupational disorders.

8) Oral pathology

This course aims to:

1. Classify the diseases of oral and paraoral structures according to nature and etiologic background.
2. Define and differentiate various diseases which located under the same category.
3. Detect some systemic diseases, those having oral manifestation.
4. have careful examination (microscopically) of some oral and dental diseases.
5. Refer some of the discards studied into etiologic background , laboratory investigation , Radiographic finding , prognosis and treatment.
6. Possess the ability to pursue further studies and research nationally and internationally in the various pathological conditions to direct them towards improving community health.

9) Oral radiology

By the end of the course the students should be able to:

1. Know the basic characteristics of ionizing radiation and production of X-rays, and understand the Biological effects of ionizing radiation on the molecular, cellular, tissue and organ levels with Concentration on the hazardous effects of ionizing radiation on the oral and para- oral structures.
2. Practice adequate measures for radiation protection of the patient, dental staff and people in the Immediate environment.
3. Understand the Principles of image production and characteristics of radiographic images, Recognize the different types of radiographic films which are utilized in oral and maxillofacial imaging And know the interaction between X-rays and matter, the effect of X-rays on the radiographic film and The factors affecting radiographic image qualities.
4. Master the techniques for acquiring good quality intra oral radiographs, namely periapical, Bitewing and Occlusal, identify Normal radiological landmarks on these films and understand the Principles of radiographic interpretation.
5. Master the processing of the exposed films in order to produce good quality diagnostic Radiographs, understand well the interaction between the film and the processing solutions and Identify common causes of faulty or unsatisfactory radiographs.
6. Understand the Principles, indications, advantages and disadvantages of panoramic radiography And steps in taking a panoramic radiograph, describe the advanced imaging modalities, their uses in The head and neck including CT. MRI, Ultrasound and nuclear medicine and demonstrate sound Knowledge on different radiographic techniques used to examine TMJ, disorders affecting the TMJ, Maxillary sinus anatomy and techniques used to insert examine sinus.



10) Pharmacology

1. Provide the students with the knowledge about the different groups of drugs and their effects On the body's organs and systems.
2. Teach the students the mechanism of action of each group and medications belong to it.
3. Support the students with the knowledge of the important side effects of each drug.
4. Improve the students' skills to describe the symptoms of toxic in the case of increasing the Dose of the drug.
5. Inform the students about Contraindications for each especially pregnancy and lactation also with any dental procedure.

11) Removable

This course is designed to develop skills and provide information for utilizing removable prosthodontics (conventional complete and partial dentures) for the management of completely/partially edentulous patients.

It also provides the students with knowledge of the principles and practice of complete dentures, partial Dentures, treatment planning, pre-prosthetic surgery, and dental technology in relation to prosthetic dentistry.

1. Provide the students with basic, current, evidence-based and updated information and sufficient Theoretical background to assist them in managing completely/partially edentulous patients using Removable complete partial dentures. This is in the form of lectures from history taking and Examination to the recall and assessment stage.
2. Prepare the students for the clinics to be familiar with all clinical and laboratory steps in complete denture And Transitional/Definitive removable partial denture construction and how to manage edentulous Patients.
3. Learn how to communicate with other professionals especially dental technicians by the work Authorization.
4. Provide the student with sufficient theoretical background to assist them in managing edentulous and Partially dentate patients. This is in the form of slide show and lectures on the various steps involved in fabrication of complete and removable partial dentures from history taking and examination to the recall And assessment stage.