

## **General Microbiology**

### **Course outcome**

CO1: To define the basics of various branches of microbiology, fundamentals of Microbiology , and able to identify various microorganisms and apply the knowledge relevantly.

CO2: To explain and apply the microbiological basis of various infectious diseases and lesions in oral cavity differentiate them.

CO3: To practice various methods of sterilization and disinfection in dental clinics and perform proper aseptic procedures.

CO4: To perform the selection, collection and transport of clinical specimens to the laboratory.

CO5: To identify microbial morphological forms, sterilization methods , culture media , staining techniques and preparation and identification of different microbiological slides.

## **General pathology**

### **Course outcome**

CO1: To explain the etiopathogenesis and morphological features of various disease process.

CO2: To examine the pathological changes of selected diseases macroscopically and microscopically and explain their observations in terms of disease process.

CO3: To memorize the common and new terminologies, definition and basic concepts related to disease processes in general.

CO4: To demonstrate basic investigative procedures done routinely based on the knowledge in clinical pathology.

## **General and Dental Pharmacology & Therapeutics**

### **Course outcome**

CO 1 To explain the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in general and in dentistry in particular.

CO 2: To distinguish the indications, contraindications, interactions and adverse reactions of commonly used drugs with reason.

CO 3: To identify appropriate drugs in disease with consideration to its cost, efficacy, safety for individual and mass therapy needs.

CO 4: To demonstrate the special care in prescribing common and essential drugs in special medical situations such as pregnancy, lactation, old age, renal, hepatic damage and immune-compromised patients.

CO 5: To demonstrate the prescription of drugs for pre operative, prophylactic and therapeutic requirements.

CO 6: To demonstrate the ability to investigate and report adverse drug reaction to suitable authorities.

## **Dental materials**

### **Course outcome**

CO1: To state the evolution and development of science of dental materials.

CO2: To describe the composition, biomechanical requirements, physical and chemical properties, advantages, disadvantages, application & limitations of various dental materials used in dentistry and their commercial names.

CO3: To explain and evaluate the claims made by manufactures of dental materials.

CO4: To demonstrate the manipulative techniques of various dental materials.

CO5: To be able to select and use the materials appropriately for laboratory and clinical use.

## **Pre-clinical prosthodontics**

### **Course outcome**

CO1: To execute step by step fabrication of complete denture

CO2: To execute the repair of fractured Denture

CO3: To execute the fabrication of heat cured acrylic Partial Dentures – (Kennedy class I, class II, class III & class IV)

CO4: To sketch the design of a Cast Partial Denture and mark its components.

## **Pre-clinical conservative dentistry**

### **Course outcome**

CO1: To implement the knowledge of dental anatomy and occlusion in the design of restorations.

CO2: To describe the fundamentals of tooth preparation and pulp protection with respect to metallic and adhesive aesthetic restorations.

CO3: To state the importance of isolation and infection control in operative dentistry.

CO4: To execute restorative procedures by using appropriate patient and operator positions, instrument grasps and rests.

CO5: Should be able to demonstrate operative procedures including cavity preparation, tooth separation, matricing, manipulation of restorative materials, condensation, carving, finishing and polishing restorations on typodont teeth mounted on mannequin head to make students competent for doing the similar procedures in patients.

## **Pre clinical Orthodontics**

### **Course outcome**

CO1: To explain the basic principles of orthodontic wire bending.

CO2: To explain the composition and demonstrate the manipulation of orthodontic materials.

CO3: To fabricate various components of a removable appliance.

CO4: To list the indications of various removable appliances including habit breakers.

CO5: To explain the clinical management of removable orthodontic appliances.