



# RAGAS DENTAL COLLEGE & HOSPITAL

(Unit of Ragas Educational Society)

Recognized by the Dental Council of India, New Delhi

Affiliated to The Tamilnadu Dr.M.G.R. Medical University, Chennai

2/102, East Coast Road, Uthandi, Chennai-600 119. INDIA.

Tele : (044) 24530002, 245300003 -06. Principal (Dir) 24530001

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23.08.2021

## COURSE OUTCOME

### FIRST YEAR BDS

#### ANATOMY

##### *Knowledge and Understanding:*

- To identify, show, draw, describe the structural components of the body responsible for carrying out normal body functions.
- To know the process of development of human embryo emphasizing the development and developmental anomalies of oral, dental and maxillofacial structures including head and neck region.
- Demonstrates knowledge about histologic structures of different parts of body system and organs
- To understand the importance of study of embryology.
- Knowledge about the derivatives of germ layers: ectoderm, mesoderm and endoderm.
- To describe the anatomical basis of clinical disorders of head and neck and CNS.
- To identify and demonstrate the different parts of bones of head and neck, state the gross features and attachments of skull bones including base of skull and cervical vertebrae.
- To demonstrate movements of joints of head and neck.
- To demonstrate the boundary and identify the contents of oral cavity, the gross features and nerve supply of tongue, gum and teeth

##### *Skills:*

- To understand the knowledge acquired in anatomy and to correlate, appreciate and apply in other subjects taught in BDS course
- The student must be able to describe the location, nerve supply, mode of termination of ducts of salivary glands and their functions
- To describe and classify neurons and neuralgia
- explain the functions of different parts of autonomic nervous system
- To define terms related to embryology
- To define and describe the congenital anomalies of head and neck
- To draw and demonstrate the important anatomical points and structures of head and

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neck

- To identify the layers of scalp and the contents of temporal region and infratemporal fossa
- To correlate the important clinical conditions associated with structures in head and neck
- To identify the different types of tissue on slide under microscope

## DENTAL ANATOMY

### *Knowledge and Understanding:*

- To outline the characteristics of human dentition
- The student should be able to identify different teeth in different dentition
- To differentiate between normal and pathological state of oral structures
- Demonstrate knowledge about development of maxilla, mandible, palate, tongue, lips and to state the congenital defects during their formation

### *Skills:*

- To describe the physiological process of tooth development
- To describe any tooth by its morphology
- To mention the chronology of deciduous and permanent teeth
- To describe the types of dentition, dental formula and notation
- To describe the mechanism and pattern of tooth shedding and its clinical significance
- To mention the pattern of tooth eruption and its clinical significance
- To carve human teeth morphology in wax blocks
- To identify and describe different histologic structures of oro-dental tissues
- To explain the clinical importance of teeth and oral tissues

## PHYSIOLOGY

### *Knowledge and Understanding:*

- To understand the goal of Physiology
- To perform physiological experiments
- To interpret experimental and investigational data
- To demonstrate basic knowledge and understanding on the normal functions of all the organ system of the human body and apply it as a background for clinical subjects

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## ***Skills:***

- To develop sound attitude for continuing- self education to improve efficiency and skill in physiology
- To demonstrate knowledge about blood grouping and blood transfusion
- To explain about heart rate and radial pulse
- To describe the blood pressure and its regulation
- To describe the general mechanism of action, functions and regulation of secretion of hormones
- To describe the physiology and regulation of body temperature
- To demonstrate the parts of microscope and skill in using it
- To collect and prepare blood sample
- To examine the radial pulse and its application
- To examine respiratory rate
- To elicit light reflex
- To record oral and axillary temperature
- To determine bleeding time, clotting time, ESR, differential count of WBC

## **BIOCHEMISTRY**

### ***Knowledge and Understanding:***

- Demonstrate basic knowledge and understanding on major biomolecules, forming the structure of human body, their functions and role in health and disease
- Knowledge about the role of enzymes in the diagnosis of disease
- To explain the metabolic reactions in the body
- To acquire knowledge on fundamental chemical principles involved in body mechanism upon which life process depends

### ***Skills:***

- Demonstrate skills in performing and interpreting common biochemistry laboratory tests
- To apply the knowledge and understanding of biochemistry in medicine and surgery
- To estimate glucose, abnormal constituents of urine
- To diagnose diabetes mellitus, renal, liver and thyroid functions
- The student will be able to list the laboratory hazards and the precautions to prevent them
- To interpret the result of serum urea, creatinine, total protein, bilirubin

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## SECOND YEAR BDS

### MICROBIOLOGY

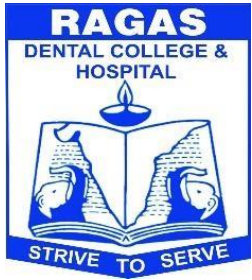
#### *Knowledge and Understanding:*

- Demonstrate the knowledge and understanding of microorganisms and their role in disease
- Knowledge and understanding of immunology for prevention of disease
- To understand the various methods of sterilisation and disinfection and its importance in dentistry
- To understand the classification of microorganisms- bacteria, virus, fungus
- State bacterial anatomy, physiology, growth and death
- To demonstrate the pathogenesis of dental caries, host response and the virulence factors of bacteria
- Demonstrate knowledge about general concept of virus with clinical importance.
- Knowledge about common fungal diseases of oral cavity
- Knowledge about cross infections and nosocomial infections and methods to prevent them in dental practice
- Understanding the role of various microorganisms in oral lesions and diseases (oral thrush), other systemic and opportunistic fungi
- To understand the concept, introduction of fungus with its clinical importance
- Demonstrate knowledge about general concepts of immunology and its applications
- To state culture media with sensitivity and its clinical importance
- Knowledge about oral microbiology with clinical importance

#### *Skill:*

- Student should be able to follow proper aseptic techniques in dental practice
- Should be able to collect samples from oral cavity and carefully transfer to the laboratory
- To interpret microbiological and serological laboratory tests for diagnosis of disease
- To apply microbiological knowledge in practicing of dental surgery to improve the oral and dental health of the patients.
- To understand the general concepts of immunology and its applications, immunity-classification and difference
- To define and classify hypersensitivity with mechanism and function

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- Knowledge about important respiratory virus with their pathogenesis, clinical importance and lab diagnosis

## **PATHOLOGY**

### ***Knowledge and Understanding:***

- Understanding about causes and pathogenesis of diseases
- Understanding about preventive aspects of diseases
- To describe haematological diseases and haematological disorders
- To interpret clinical pathological specimen to evaluate the diagnosis of disease
- Demonstrate basic tissue changes in acute and chronic inflammation
- Demonstrate understanding of healing after dental surgery (tooth extraction) and its complications
- Understanding about mechanism of generalized oedema
- Knowledge about stages of wound healing
- Demonstrate principles of tissue preservation
- State different diagnostic procedures of tumours
- Knowledge about various hematologic disorders

### ***Skill:***

- The student should be able to identify and differentiate neoplastic and nonneoplastic lesions around the head and neck region
- Advise appropriate investigations for correct diagnosis of disease
- To apply the knowledge acquired in pathology while practicing dental surgery
- Identify acute, chronic and granulomatous inflammation
- Identify granulation tissue under microscope
- To know the procedure of sending a biopsy specimen to the laboratory and cytology
- To identify common tumours and tumour like lesions of the oral cavity
- To mention the importance of jaundice in dentistry
- To define and classify diabetes mellitus and describe its complications
- To perform and interpret Benedict's test
- To know the importance of diabetes mellitus in dentistry
- To interpret TC, DC, absolute values, ESR, platelet count, bone marrow examination, BT, CT and PT and determine its clinical significance

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## PHARMACOLOGY

### *Knowledge and Understanding:*

- Understanding of the pharmacokinetics and pharmacodynamics of essential and commonly used drugs in dentistry
- To understand the indications, contraindications, interactions and adverse reactions of commonly used drugs in dentistry
- To understand the principles underlying the concepts of essential medicines
- To demonstrate knowledge and understanding of teratogenic medicines
- To evaluate the ethical and legal issues involved in drug prescribing
- Knowledge about geriatric pharmacology, treatment for medically compromised patients, pregnant women and common dental problems
- Knowledge about medical emergencies of relevance to dental practice like syncope, angina pectoris, myocardial infarction, cardiac arrest, hypertension, hypotension, acute allergic reactions/anaphylaxis, insulin shock/diabetic coma, asthma

### *Skills:*

The student should be able to

- Write a rational prescription
- Able to execute Therapeutic decision making
- To define mouthwash and dentifrices,
- Management of common dental infections • Management of dental pain
- •Proper use of local anaesthetic agents
- Prescribing from essential medicine list
- Management of shock
- Understanding the drugs for medical emergencies in dental practice and management
- State the indication, mechanism of action and side effects of chlorhexidine containing mouthwash
- State and explain the uses of anticoagulant therapy
- To take necessary action before giving dental treatment to a patient on anticoagulant therapy
- Method of application and mechanism of action of anti-plaque agents
- State the principles of cancer chemotherapy and the chemotherapeutic drugs
- State the pharmacology of sialogogues and antisialogogues

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## DENTAL MATERIALS

### *Knowledge and Understanding:*

- To understand the physical, chemical, biological and mechanical properties of materials used in dentistry
- Describe the proper handling and caring of materials
- Knowledge about the selection of required instruments
- To understand the toxic and side effects of the materials and protective measures to be taken
- To understand the biocompatibility of the materials
- To understand tarnish and corrosion and the preventive measures of the metallic made prostheses and restoratives used in oral cavity
- Understand the criteria for selection and use of dental ceramics
- To enumerate the composition, properties of different cements used in dentistry
- Knowledge about setting mechanism of dental cements
- Knowledge about classification and principles of cutting of polishing materials
- Understanding about cast partial dentures
- Knowledge about denture base materials, techniques of manipulation, maintenance and allergic reactions

### *Skill:*

The student should be able to

- To identify the materials used in dentistry
- Selection of appropriate material for clinical use
- Proper use of instruments
- Manipulate different types of cements
- Manipulate gypsum products
- Manipulate amalgam
- Manipulate acrylic resin and construction of denture base
- Manipulate the dental materials perfectly without loss of its properties

## PRECLINICAL CONSERVATIVE DENTISTRY

### *Knowledge and Understanding:*

- Understanding of the treatment procedures carried out in conservative dentistry
- Knowledge about the composition and properties of restorative materials

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## ***Skills:***

- Preparation of different types of cavities in plaster models and simulation phantom heads.
- Identification of different types of restorative materials
- Manipulation for the various types of restorative materials like zinc oxide eugenol cement, zinc phosphate cement
- Manipulation of light cured composite resins
- Manipulation of calcium hydroxide
- To list the dentin bonding agents and their mechanism of adhesion
- To describe the pit and fissure sealants

## **PRECLINICAL PROSTHODONTICS, CROWN AND BRIDGE**

### ***Knowledge and Understanding:***

- Knowledge about the structure and functions of teeth, jaws and its physiological importance in the physical and social well being of a patient
- Understanding about teeth occlusion
- Knowledge about abnormalities in occlusion
- Knowledge about sequelae following discrepancies in occlusion following improper fabrication of dentures
- Demonstrate understanding about the properties, composition of elastomeric impression materials

### ***Skills:***

- Fabrication of removal partial dentures
- Fabrication of fixed partial dentures
- To understand the casting procedure
- Prepare wax pattern
- To describe the importance, properties of the important base metals used in dentistry
- Manipulation of base plate wax to make a special tray/temporary base
- Manipulation of modeling wax to make a wax pattern
- Technique to construct denture base using acrylic resin
- Technique to repair fractured denture /model
- Manipulation of alginate and taking impression of an edentulous model.

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## THIRD YEAR BDS

### GENERAL MEDICINE

#### *Knowledge and Understanding:*

- Understanding about the various manifestations of common diseases
- To understand the basic principles of history taking and clinical examination
- Knowledge to correlate the clinical symptoms and physical signs to make a provisional diagnosis of common diseases and suggest relevant investigation

#### *Skill:*

- To elicit required history from the patient,
- To develop communication skill so as to establish effective communication with the patients and with scientific community
- Able to record arterial pulse, blood pressure, temperature and respiration
- Able to perform CPR
- Diagnosis of common clinical problems
- To interpret common haematological report, X-ray chest, ECG, CT scan
- Writing prescriptions
- To acquire skill in performing intramuscular and intravenous injections
- To follow professional ethics during clinical practice

### GENERAL SURGERY

#### *Knowledge and Understanding:*

- Knowledge about common surgical conditions of head and neck
- Knowledge about the appropriate radiological and haematological investigations
- Knowledge about the various benign and malignant lesions of head and neck region.
- To learn the basic surgical principles

#### *Skills:*

- To perform proper general, local and systemic examination
- To identify common surgical problems
- Interpretation of investigational results of common surgical problems

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- To provide first aid with prompt referral of complicated patients
  - To know minor surgical procedures like abscess drainage, taking biopsy
  - To know about the universal precautions to be taken against HIV, Hepatitis

## ORAL PATHOLOGY AND ORAL MICROBIOLOGY

### *Knowledge and Understanding:*

- To know the basic mechanism of different types of diseases that involves the orofacial tissues
- To know the oral manifestations of systemic and metabolic diseases
- To know the use of oral histopathology, FNAC, cytological examination, frozen section and immunohistochemistry
- Knowledge about common developmental disturbances of teeth and jaws
- To know about developmental disturbances of oral soft tissues and paraoral tissues

### *Skills:*

- Writing oral histopathology and requisition form
- Handling and maintenance of microscope
- Interpretation of pathological reports and data
- Preservation of surgical specimen and preparation of fixative for surgical specimens in 10% formalin
- Preservation of surgical specimens for Immunohistochemistry

## FINAL YEAR BDS

### ORAL MEDICINE AND RADIOLOGY

#### *Knowledge and Understanding:*

- To know the treatment plan and differential diagnosis of common infective and non-infective ulcers occurring in oral cavity
- To describe the clinical features, histopathology and laboratory investigations for common infective and non-infective ulcers in oral cavity.
- Knowledge about pathogenesis, clinical features and treatment of common autoimmune diseases of oral cavity
- Knowledge about identification and differentiation between traumatic and various reactive lesions occurring in oral cavity

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- Knowledge about various effects of radiation in oral cavity
  - Knowledge about common viral and bacterial diseases of salivary glands
  - Knowledge about causes and complications of xerostomia

***Skills:***

- Able to manage dental, non-dental pain
- Management of trigeminal neuralgia, facial paralysis
- Management of autoimmune diseases of oral cavity
- Management of leukoplakia and other premalignant lesions of oral cavity
- Management of xerostomia
- Ability to frame appropriate treatment planning
- Ability to take intraoral periapical radiographs and interpret it
- Ability to interpret Orthopantomogram

## CONSERVATIVE DENTISTRY AND ENDODONTICS

***Knowledge and Understanding:***

- To have theoretical knowledge about conservative dentistry and endodontics, in order to integrate between theory and practice
- Knowledge about current concepts of operative and endodontic care
- Knowledge about new concepts of aesthetic dentistry
- Knowledge about dental radiology

***Skill:***

- The student should be able to demonstrate adequate diagnostic skills, restorative skills, endodontic skills
- Ability to perform manual skill and dexterity
- Communication skills to obtain a medical and psychosocial history
- Ability to frame an effective treatment plan for individual patient
- Skilled enough to work in a team and show professionalism
- Ability to perform emergency pain management
- Competent enough to practice Minimally Invasive Dentistry (MID) and Evidence Based Dentistry (EBD) with scientific understanding and thought.

## PERIODONTOLOGY

***Knowledge and Understanding:***

- The student should be able to describe the background and scope of Periodontology
- Knowledge about classification of periodontal diseases and framing of treatment plan

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as required

- Knowledge about the prevention and progression of periodontal diseases
- Knowledge about the basic tissues of periodontium, clinical features of healthy and inflamed gingival
- Adequate knowledge about the etiology, pathophysiology, diagnosis, treatment planning of various periodontal diseases
- Knowledge about the interrelationship between periodontal disease and systemic disease
- Knowledge about the basic concepts and periodontal aspects of dental implants and management of periodontal health of implants

### ***Skills:***

- Skilled enough to diagnose and manage common periodontal diseases
- To develop attitude for further learning of subjects
- To execute the basic principles of periodontal instrumentation
- Competent enough to perform scaling, root planning, curettage with oral hygiene instructions with full aseptic precaution
- To list and identify the basic periodontal instruments
- To provide proper referral to specialist consultant
- To apply the knowledge and understanding of prevention of periodontal diseases
- To apply knowledge of Periodontology to integrate with multidisciplinary treatment approach

### **PROSTHODONTICS AND CROWN AND BRIDGE**

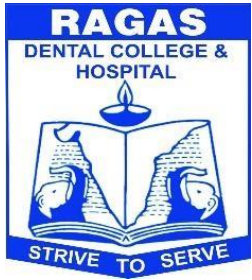
#### ***Knowledge and Understanding:***

To understand the normal relations of human teeth and jaws in dentulous patients

- To demonstrate knowledge about complete anatomy and physiology of complete or partial edentulous state.
- Knowledge about articulation and concept of occlusion
- Knowledge about stepwise process, finish and deliver of different prosthesis
- To understand the concept of osseointegration and the value of implant-supported prosthodontic procedures
- To understand the basic concepts of TMJ movements
- To understand the basic principles of natural and artificial occlusion
- To understand the basic principles of tooth preparation for construction of crowns
- To understand the basic principles of diagnosis, treatment planning of maxillofacial

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defects

***Skills:***

- To handle various dental materials effectively
- Competent to treat edentulous and partial edentulous patients
- Skilled enough to treat maxilla-facial defect patient
- To diagnose and refer patients requiring treatment
- Ability to identify occlusal discrepancies and correct it appropriately
- Skilled enough to perform construction of inlay, onlay, partial veneer crown and full veneer crown
- Skilled enough to perform various impression techniques

**ORAL AND MAXILLOFACIAL SURGERY**

***Knowledge and Understanding:***

- To demonstrate knowledge about basic concepts in oral and maxillofacial surgery
- Demonstrate the appropriate attitude to practice in oral and maxillofacial surgical field
- Knowledge about diagnosis and effective management of common
- To understand the principles of management of major oral surgical problems
- To value the ethical issues
- To understand the principles of inpatient management

***Skill:***

- History taking and clinical examination of common disorders of oral and maxillofacial surgery
- Competent enough to make appropriate decision based on risk benefit of maxillofacial surgery
- To motivate and counsel the importance of regular oral health screening regarding oral cancer
- Competent enough to perform basic surgical skills of common disorders of oral and maxillofacial surgery
- To apply the basic principles of surgery like asepsis and handscrub, care of the hospitalised patient.
- Able to manage medical emergencies in dental office providing primary care
- Ability to manage complications during operative and postoperative phase

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- Appropriate referral of high risk patients
  - Competent enough to carry out extraction of teeth under local anaesthesia and general anaesthesia
  - Able to perform biopsy, and other minor oral surgical procedures
  - To maintain high standard of professional ethics

## ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS

### *Knowledge and Understanding:*

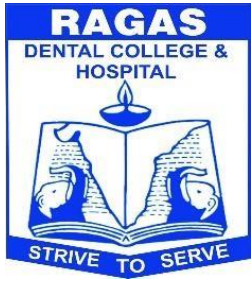
- Knowledge about the etiology, pathophysiology, principles of diagnosis and management of common dentofacial and orthodontic problems
- To demonstrate basic knowledge and skill to examine, investigate and diagnose the patient's malocclusion for orthodontic treatment
- To understand the basic concept of fixed orthodontic appliance
- To understand the design, plan and fabrication of functional appliance
- Understand the principles of cephalometric tracing

### *Skills:*

- To identify and diagnose anomalies of dentition, occlusion, facial structures, and abnormal functional conditions(orthodontic patients)
- Skilled enough to detect deviations of development of dentition, of facial growth, and occurrence of functional abnormalities
- Skilled enough to identify pernicious oral habits that may lead to malocclusion
- To evaluate the need for orthodontic treatment
- To plan and execute interceptive orthodontic measures
- Competent enough to convince the patient for specialised orthodontic consultation
- To develop communicative skills with the patient regarding preventive, curative and rehabilitative orthodontic care
- To formulate a treatment plan for simple type of malocclusions and execute
- To outline the management protocol
- To manage simple orthodontic problems
- Skilled enough to insert and activate functional appliance
- To identify normal and abnormal growth pattern of jaws and dentition
- To identify the changes in face form and facial profile
- To evaluate the psychological and social impact of abnormal growth and malocclusion

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## PEDODONTICS AND PREVENTIVE DENTISTRY

### *Knowledge and Understanding:*

- To demonstrate knowledge about diagnosis of dental diseases of paediatric patients
- To demonstrate knowledge of relative analgesia
- To understand the concept of fixed and removable space maintainer
- Understanding about simple surgical procedures like excision of cyst, epulis and ranula

### *Skills:*

- To identify primary dentition
- To differentiate between primary and permanent dentition
- To instill a positive attitude and behaviour in patients to maintain good health
- To promote infant's and children's healthy feeding practice
- To assess and refer paediatric patients to different specialities appropriately
- To motivate and treat psychologically challenged paediatric dental patients
- To counsel and motivate children and parents about good oral hygiene and health
- To do anterior striping and stainless steel crown
- To interpret radiographs used in paediatric dentistry
- To manage traumatised anterior segment of dentition
- To apply pit and fissure sealants and fluorides
- To manage different types of pulpal pathologies
- To teach the paediatric patients about different brushing techniques
- To diagnose, manage and refer patients with communicative disorders

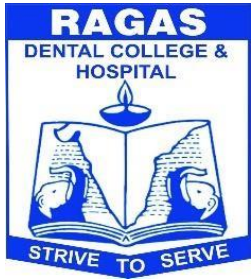
## PUBLIC HEALTH DENTISTRY

### *Knowledge and Understanding:*

- To demonstrate a complete understanding about the concepts of public health and primary healthcare and their delivery system in the community
- To understand the different preventive measures to address the prevailing oral and dental problems in the community in each and every level
- To describe the concept and methods of epidemiology to design simple research in dental background

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- 
- To understand the concept of dental jurisprudence and address the legal issues in dentistry
  - Demonstrate knowledge of social and psychological pattern of disease causation and its management accordingly

***Skills:***

- Competent to plan and conduct field survey properly
- To interact with the community people about oral health status
- Competent to work in primary healthcare settings
- Act as oral health educator
- Act as a social worker regarding establishing a good oral health status among the community people
- To provide instruction about- brushing, flossing, interdental cleansing aid, mouthwash
- To interpret research findings from published journals and articles
- To promote health promotional materials such as poster, festoon, leaflet, handbill, banner etc

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## PROGRAM OUTCOME IN MASTER OF DENTAL SURGERY

### **BRANCH I – PROSTHODONTICS AND CROWN & BRIDGE:**

#### ***Knowledge:***

The candidate should possess knowledge of applied basic and systemic medical sciences.

- On human anatomy, embryology, histology, applied in general and particularly to head and neck, Physiology & Biochemistry, Pathology Microbiology & virology; health and diseases of various systems of the body (systemic) principles in surgery and medicine, pharmacology, nutrition, behavioral science, age changes, genetics, Immunology, Congenital defects & syndromes and Anthropology, Bioengineering, Bio-medical & Biological Principles
- The student shall acquire knowledge of various Dental Materials used in the specialty and be able to provide appropriate indication, understand the manipulation characteristics, compare with other materials available, be adept with recent advancements of the same.
- Students shall acquire knowledge and practice of history taking, Diagnosis, treatment planning, prognosis, record maintenance of oral, craniofacial and systemic region.
- Instructions for patients in after care and preventive Prosthodontics and management of failed restorations shall be possessed by the students.
- Understanding of all the applied aspects of achieving physical, psychological well-being of the patients for control of diseases and / or treatment related syndromes with the patient satisfaction and restoring function of Cranio mandibular system for a quality life of a patient.
- Ability to read and interpret radiographs, and other investigations for the purpose of diagnosis and treatment planning.
- The theoretical knowledge and clinical practice shall include principles involved for support, retention, stability, esthetics, phonation, mastication, occlusion, behavioral, psychological, preventive and social aspects of Prosthodontics science of Oral and Maxillofacial Prosthodontics and Implantology.
- Tooth and tooth surface restorations, Complete denture Prosthodontics, removable partial denture Prosthodontics, fixed prosthodontics and maxillofacial and Craniofacial Prosthodontics, implants and implant supported Prosthodontics, T.M.J. and occlusion,

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craniofacial esthetics, and biomaterials, craniofacial disorders, problems of psychogenic origin.

- Should have knowledge of age changes, geriatric psychology, nutritional considerations and prosthodontic therapy in the aged population.
- Should know general health conditions and emergency as related to prosthodontics treatment like allergy of various materials and first line management of aspiration of prosthesis
- Should identify social, cultural, economic, environmental, educational and emotional determinants of the patient and consider them in planning the treatment.
- Should identify cases, which are outside the area of his specialty / competence, refer them to appropriate specialists and perform interdisciplinary case management.
- Should attend continuing education programmes, seminars and conferences related to Prosthodontics, thus updating himself/herself.
- To teach and guide his/her team colleagues and other students.
- Should have an ability to plan and establish Prosthodontics clinic/hospital teaching department and practice management.
- Should have a sound knowledge (of the applications in pharmacology, effects of drugs on oral tissues and systems of body and in medically compromised patients.

### *Skills:*

- The candidate should be able to examine the patients requiring Prosthodontic therapy, investigate the patient systemically, analyze the investigation results, radiographs, diagnose the ailment, plan the treatment, communicate it with the patient and execute
- To understand the prevalence and prevention of diseases of craniomandibular system related to prosthetic dentistry.
- Should be able to demonstrate the clinical competence necessary to carry out appropriate treatment at higher level of knowledge, training and practice skills currently available in their specialty area with a patient centered approach.
- Should be able to interpret various radiographs like IOPA, OPG, CBCT and CT. Should and be able to plan and modify treatment plan based on radiographic findings
- Should be able to critically appraise articles published and understand various components of different types of articles and be able to gather the weight of evidence from the same

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- To identify target diseases and create awareness amongst the population regarding Prosthodontic therapy.
  - To perform Clinical and Laboratory procedures with a clear understanding of biomaterials, tissue conditions related to prosthesis and have required dexterity & skill for performing clinical and laboratory all procedures in fixed, removable, implant, maxillofacial, TMJ and esthetics Prosthodontics.
  - To carry out necessary adjunctive procedures to prepare the patient before prosthesis like tissue preparation and preprosthetic surgery and to prepare the patient before prosthesis / prosthetic procedures.
  - To understand demographic distribution and target diseases of Cranio mandibular region related to Prosthodontics.

### *Attitudes:*

- To adopt ethical principles in Prosthodontic practice, Professional honesty, credibility and integrity are to be fostered. Treatment to be delivered irrespective of social status, caste, creed or religion of patient.
- Should be willing to share the knowledge and clinical experience with professional colleagues.
- Should develop an attitude towards quality, excellence, **non-compromising** in treatment.
- Should be able to self-evaluate, reflect and improve on their own.
- Should pursue research in a goal to contribute significant, relevant and useful information, concept or methodology to the scientific fraternity.
- Should be able to demonstrate **evidence-based** practice while handling cases
- Should be willing to adopt new methods and techniques in prosthodontics from time to time based on scientific research, which are in patient's best interest.
- Should respect patient's rights and privileges, including patient's right to information and right to seek second opinion.

### *Communicative abilities:*

- To develop communication skills, in particular *and* to explain treatment options available in the management.

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- To provide leadership and get the best out of his / her group in a congenial working atmosphere.
  - Should be able to communicate in simple understandable language with the patient and explain the principles of prosthodontics to the patient. He/She should be able to guide and counsel the patient with regard to various treatment modalities available.

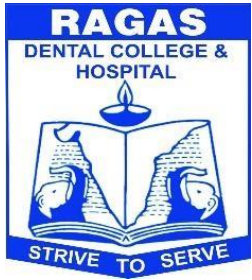
## **BRANCH II- PERIODONTOLOGY:**

The following objectives are laid out to achieve the goals of the course

### **Knowledge:**

- Discuss historical perspective to advancement in the subject proper and related topics.
- Describe etiology, pathogenesis, diagnosis and management of common periodontal diseases with emphasis on Indian population.
- Familiarize with the biochemical, microbiologic and immunologic genetic aspects of periodontal pathology
- Describe various treatment modalities of periodontal disease from historical aspect to currently available ones Describe interrelationship between periodontal disease and various systemic conditions
- Describe periodontal hazards due to estrogenic causes and deleterious habits and prevention of it.
- Identify rarities in periodontal disease and environmental/Emotional determinates in a given case
- Recognize conditions that may be outside the area of his/her Speciality/ competence and refer them to an appropriate Specialist
- Decide regarding non-surgical or surgical management of the case
- Update the student by attending courses, conferences and seminars relevant to periodontics or by self-learning process.
- Plan out/ carry out research activity both basic and clinical aspects with the aim of publishing his/her work in scientific journals
- Reach to the public to motivate and educate regarding periodontal disease, its prevention and consequences if not treated.

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- Plan out epidemiological survey to assess prevalence and incidence of early onset periodontitis and adult periodontitis in Indian population (Region wise)
  - Shall develop knowledge, skill in the science and practice of Oral Implantology
  - To sensitize students about inter disciplinary approach towards the soft tissues of the oral cavity with the help of specialist from other departments.

## **Skills:**

- Take a proper clinical history, thorough examination of intra oral, extra oral, medical history evaluation, advice essential diagnostic procedures and interpret them to come to a reasonable diagnosis
- Effective motivation and education regarding periodontal disease maintenance after the treatment.
- Perform both non-surgical & education regarding periodontal disease, maintenance after the treatment
- Perform both non-surgical and surgical procedures independently.
- Provide Basic Life Support Service (BLS) recognizes the need for advance life support and does the immediate need for that.
- Adopt ethical principles in all aspects of treatment modalities; Professional honesty & integrity are to be fostered. Develop Communication skills to make awareness regarding periodontal disease Apply high moral and ethical standards while carrying out human or animal research, Be humble, accept the limitations in his/her knowledge and skill, and ask for help from colleagues when needed, Respect patients rights and privileges, including patients right to information and right to seek a second opinion.
- To learn the principal of lip repositioning and perio esthetics surgeries.
- To develop the ability to communicate with professional colleagues through various media like Internet, e-mails, videoconferences etc. to render the best possible treatment.
- Should demonstrate good explanatory and demonstrating ability as a teacher in order to facilitate learning among students.

## **BRANCH III- ORAL AND MAXILLOFACIAL SURGERY:**

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The training program in Oral and Maxillofacial Surgery is structured to achieve the following objectives-

**Knowledge:**

- To have acquired adequate knowledge and understanding of the etiology, pathophysiology and diagnosis, treatment planning of various common oral and Maxillofacial surgical problems both minor and major in nature
- To have understood the general surgical principles like pre and post surgical management, particularly evaluation, post surgical care, fluid and electrolyte management, blood transfusion and post surgical pain management.
- Able to identify social, cultural, economic, genetic and environmental factors and their relevance to disease process management in the oral and Maxillofacial region.
- Essential knowledge of personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste keeping in view the high prevalence of hepatitis and HIV.

**Skills:**

- To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures and order relevant laboratory tests and interpret them and to arrive at a reasonable diagnosis about the surgical condition.
- To perform with competence minor oral surgical procedures and common maxillofacial surgery. To treat both surgically and medically the problems of the oral and Maxillofacial and the related area.
- Capable of providing care for maxillofacial surgery patients.

**Attitude:**

- Develop attitude to adopt ethical principles in all aspect of surgical practice, professional honesty and integrity are to be fostered. Surgical care is to be delivered irrespective of the social status, caste, creed or religion of the patient.
- Willing to adopt new techniques of surgical management developed from time to time based on scientific research which are in the best interest of the patient
- Respect patient right and privileges, including patients right to information and right to seek a second opinion.
- Develop attitude to seek opinion from an allied medical and dental specialists as and when required.

**Communication Skills:**

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- Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular surgical problem and obtain a true informed consent from them for the most appropriate treatment available at that point of time
- Develop the ability to communicate with professional colleagues.

## **BRANCH IV-CONSERVATIVE DENTISTRY AND ENDODONTICS :**

The following objectives are laid out to achieve the goals of the course. These are to be achieved by the time the candidate completes the course. These objectives may be considered under the following subtitles.

### ***Knowledge:***

- At the end of 36 months of training, the candidates should be able to:
- Describe etiology, pathophysiology, periapical diagnosis and management of common restorative situations, endodontic situations that will include contemporary management of dental caries, management of trauma and pulpal pathosis including periodontal situations.
- Demonstrate understanding of basic sciences as relevant to conservative / restorative dentistry and Endodontics.
- Identify social, economic, environmental and emotional determinants in a given case or community and take them into account for planning and execution at individual and community level.
- Ability to master differential diagnosis and recognize conditions that may require multi disciplinary approach or a clinical situation outside the realm of the specialty, which he or she should be able to recognize and refer to appropriate specialist.
- Update himself by self-study and by attending basic and advanced courses, conferences, seminars, and workshops in the specialty of Conservative Dentistry-Endodontics-Dental Materials and Restorative Dentistry.
- Use information technology tools and carry out research both basic and clinical with the aim of his publishing his work and presenting the same at scientific platform.

### ***Skills:***

- Take proper chair side history, examine the patient and perform medical and dental diagnostic procedures as well as perform relevant tests and interpret to them to come to a reasonable diagnosis about the dental condition in general and Conservative Dentistry

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– Endodontics in particular. And undertake complete patient monitoring including preoperative as well as post operative care of the patient.

- Perform all levels of restorative work, surgical and non-surgical Endodontics as well as endodontic-periodontal surgical procedures as part of multidisciplinary approach to clinical condition.
- Manage acute pulpal and pulpo periodontal situations.
- Have a thorough knowledge of infection control measures in the dental clinical environment and laboratories.

## **BRANCH V– ORTHODONTICS AND DENTOFACIAL ORTHOPEDICS:**

The training programme in Orthodontics is to structure and achieve the following four objectives

### ***Knowledge:***

- The dynamic interaction of biologic processes and mechanical forces acting on the stomatognathic system during orthodontic treatment
- The etiology, pathophysiology, diagnosis and treatment planning of various common Orthodontic problems
- Various treatment modalities in Orthodontics – preventive, interceptive and corrective.
- Basic sciences relevant to the practice of Orthodontics
- Interaction of social, cultural, economic, genetic and environmental factors and their relevance to management of oro – facial deformities
- Factors affecting the long-range stability of orthodontic correction and their management
- Personal hygiene and infection control, prevention of cross infection and safe disposal of hospital waste, keeping in view the high prevalence of Hepatitis and HIV and other highly contagious diseases.

### ***Skills:***

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- To obtain proper clinical history, methodical examination of the patient, perform essential diagnostic procedures, and interpret them and arrive at a reasonable diagnosis about the Dento-facial deformities.
  - To be competent to fabricate and manage the most appropriate appliance – intra or extra oral, removable or fixed, mechanical or functional, and active or passive – for the treatment of any orthodontic problem to be treated singly or as a part of multidisciplinary treatment of oro-facial deformities.

### ***Attitude:***

- Develop an attitude to adopt ethical principles in all aspects of Orthodontic practice.
- Professional honesty and integrity are to be fostered
- Treatment care is to be delivered irrespective of the social status, cast, creed and religion of the patients.
- Willingness to share the knowledge and clinical experience with professional colleagues
- Willingness to adopt, after a critical assessment, new methods and techniques of orthodontic management developed from time to time based on scientific research, which are in the best interest of the patient
- Respect patients' rights and privileges, including patients right to information and right to seek a second opinion
- Develop attitude to seek opinion from allied medical and dental specialists as and when required

### ***Communication Skills:***

- Develop adequate communication skills particularly with the patients giving them the various options available to manage a particular Dento-facial problem and to obtain a true informed consent from them for the most appropriate treatment available at that point of time.
- Develop the ability to communicate with professional colleagues, in Orthodontics or other specialties through various media like correspondence, Internet, e-video, conference, etc. to render the best possible treatment.

## **BRANCH VI – ORAL AND MAXILLOFACIAL PATHOLOGY AND ORAL MICROBIOLOGY:**

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## ***Knowledge***

- To demonstrate understanding of basic sciences relevant to speciality
- To describe aetiology, pathophysiology, principles of diagnosis and management of common problems within the speciality in adults and children
- To identify social, economic, environmental and emotional determinants in a given case and take them into account for planned treatment
- To recognise conditions that may be outside the area of speciality or competence and to refer them to the concerned specialist
- To update knowledge by self-study and by attending courses, conferences and seminars pertaining to speciality
- To undertake audit, use information technology and carry out research in both basic and clinical with the aim of publishing or presenting the work at various scientific gathering.

## ***Attitude***

- To adopt ethical principles while practicing Oral Pathology.
- To inculcate professional honesty and exhibit integrity.
- To treat patients regardless of social status, caste, creed or religion.
- To share knowledge and clinical experience with professional colleagues.
- To adopt new scientific methods and techniques in Oral Pathology while delivering patient care.
- To respect patients right and privileges including patients right to information.
- To render all possible help if the patient wish to seek second opinion.

## ***Skills***

- Take proper clinical history, examine the patient, perform essential diagnostic procedures and order relevant tests and interpret them to come to a reasonable diagnosis about the condition.
- Acquire adequate skills and competence in performing various procedures as required in the speciality.

## **BRANCH VII – PUBLIC HEALTH DENTISTRY:**

At the end of 3 years of training the candidate should be able to:

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## **Knowledge:**

- Applied basic sciences knowledge regarding etiology, diagnosis and management of the prevention, promotion and treatment of all the oral conditions at the individual and community level.
- Identify social, economic, environmental and emotional determinants in a given individual patient or a community for the purpose of planning and execution of Community Oral Health Program.
- Ability to conduct Oral Health Surveys in order to identify all the oral health problems affecting the community and find solutions using multi – disciplinary approach.
- Ability to act as a consultant in community Oral Health, teach, guide and take part in research (both basic and clinical), present and publish the outcome at various scientific conferences and journals, both national and international level.

## **Skills:**

- The candidate should be able to
- Take history, conduct clinical examination including all diagnostic procedures to arrive at diagnosis at the individual level and conduct survey of the community at state and national level of all conditions related to oral health to arrive at community diagnosis.
- Plan and perform all necessary treatment, prevention and promotion of Oral Health at the individual and community level.
- Plan appropriate Community Oral Health Program, conduct the program and evaluate, at the community level.
- Ability to make use of knowledge of epidemiology to identify causes and plan appropriate preventive and control measures.
- Develop appropriate person power at various levels and their effective utilization.
- Conduct survey and use appropriate methods to impart Oral Health Education.
- Develop ways of helping the community towards easy payment plan, and followed by evaluation for their oral health care needs.
- Develop the planning, implementation, evaluation and administrative skills to carry out successful community Oral Health Programs.

## **Values:**

- Adopt ethical principles in all aspects of Community Oral Health Activities.
- To apply ethical and moral standards while carrying out epidemiological researches.

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- Develop communication skills, in particular to explain the causes and prevention of oral diseases to the patient.
  - Be humble and accept the limitations in his knowledge and skill and to ask for help from colleagues when needed and promote teamwork approach.
  - Respect patient's rights and privileges including patients right to information and right to seek a second opinion.

## **BRANCH VIII – PEDIATRIC AND PREVENTIVE DENTISTRY:**

At the end of 3 years of training the candidate should be able to achieve the following objectives

### ***Knowledge:***

- Create not only a good oral health in the child but also a good citizen tomorrow.
- Instill a positive attitude and behavior in children
- Understand the principles of prevention and preventive dentistry right from birth to adolescence
- Guide and counsel the parents in regards to various treatment modalities including different facets of preventive dentistry
- Prevent and intercept developing malocclusion

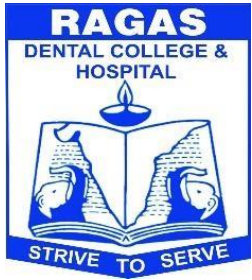
### ***Skills:***

- Obtain proper clinical history, methodological examination of the child patient, perform essential diagnostic procedures and interpret them. and arrive at a reasonable diagnosis and treat appropriately
- Be competent to treat dental diseases which are occurring in child patient.
- Manage to repair and restore the lost / tooth structure to maintain harmony between both hard and soft tissues of the oral cavity.
- Manage the disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.
- To acquire skills in managing efficiently life threatening conditions with emphasis on basic life support measures.

### ***Attitudes:***

- Develop an attitude to adopt ethical principles in all aspects of Pedodontic practice.
- Professional honesty and integrity are to be fostered

PRINCIPAL  
RAGAS DENTAL COLLEGE AND HOSPITAL  
UTHANDI, CHENNAI-600 119.



# RAGAS DENTAL COLLEGE & HOSPITAL

(Unit of Ragas Educational Society)

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- Treatment care is to be delivered irrespective of the social status, cast, creed, and religion of the patients.
- Willingness to share the knowledge and clinical experience with professional colleagues.
- Willingness to adopt, after a critical assessment, new methods and techniques of Pedodontic management developed from time to time, based on scientific research, which are in the best interest of the child patient.
- Respect child patient's rights and privileges, including child patients right to information and right to seek a second opinion.
- Develop an attitude to seek opinion from allied medical and dental specialities, as and when required

## **BRANCH IX – ORAL MEDICINE AND RADIOLOGY:**

At the end of 3 years of training the candidate should be able to acquire adequate knowledge of the discipline.

### ***Knowledge:***

- Theoretical, Clinical and practical knowledge of all oral mucosal lesions, skeletal involvement of maxillofacial region, diagnostic procedures pertaining to them and latest information of imaging modules.

### ***Skills:***

- Three important skills need to be imparted in maxillofacial diseases
- Diagnostic skill in recognition of oral diseases with radiographic diagnosis and their management
- Research skills in handling scientific problems pertaining to oral treatment
- Clinical and Didactic skills in encouraging younger doctors to attain learning objectives

### ***Attitudes:***

- The positive mental attitude and the persistence of continued learning need to be inculcated

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