

# 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.  
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## 8.1.8 LIST AND STEPS TAKEN BY THE COLLEGE TO MEASURE ATTAINMENT OF SPECIFIC COMPETENCIES BY THE BDS STUDENTS/INTERNS STATED IN THE UNDERGRADUATE CURRICULUM DURING THE LAST FIVE YEARS

S.No	Subject	Specific Competencies	Steps taken to attain the specific competencies
1.	<b>Anatomy</b>	<ul style="list-style-type: none"><li>• To acquire knowledge about structural components of the body(macroscopic and microscopic)and correlate it normal body functions.</li><li>• To emphasize development and developmental anomalies of oral, dental and maxillofacial structures</li></ul>	<ul style="list-style-type: none"><li>• Dissection of human cadavers</li><li>• Study of preserved specimens</li><li>• Demonstrations</li></ul>
2.	<b>Physiology</b>	<ul style="list-style-type: none"><li>• To acquire adequate knowledge and develop skill to perform physiology laboratory tests.</li><li>• To interpret these normal functions with a view to differentiate from abnormal functions</li><li>• To demonstrate the knowledge and understanding of biomolecules</li></ul>	<ul style="list-style-type: none"><li>• Estimation of Hb concentration.</li><li>• Determination of differential count of white blood cell (WBC).</li><li>• Determination of bleeding time &amp; clotting time.</li><li>• Determination of blood grouping &amp; cross matching.</li><li>• Determination of Erythrocyte Sedimentation Rate (ESR).</li></ul>



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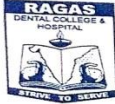
			<ul style="list-style-type: none"> <li>OSPE: Recording BP by palpatory and auscultatory method Examination of radial pulse</li> </ul>
3.	<b>Biochemistry</b>	<ul style="list-style-type: none"> <li>To apply the knowledge and understanding of biochemistry in dentistry</li> <li>To demonstrate the knowledge and understanding of biomolecules forming the structure of the human body, their functions and role in health and disease</li> <li>To learn the normal biochemical values in conventional and SI. Units</li> <li>To diagnose diabetes.</li> </ul>	<ul style="list-style-type: none"> <li>To Estimate blood glucose</li> <li>To Estimate abnormal constituents of urine( sugar, protein &amp; ketone bodies) and their clinical significance</li> </ul>
4.	<b>Dental Anatomy, Embryology And Oral Histology</b>	<ul style="list-style-type: none"> <li>To identify different teeth in different dentition</li> <li>To explain any tooth by its morphology</li> <li>To acquire the clinical importance of teeth and oral tissues.</li> <li>To mention the histological structures of tooth and associated oral structures</li> <li>To differentiate between normal and pathological state of oral structures.</li> <li>To Outline the development of</li> </ul>	<ul style="list-style-type: none"> <li>Wax carving of permanent tooth</li> <li>Microscopic examination and study of dental and oral structures, salivary glands</li> </ul>



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		<p>maxillae, mandible, palate, tongue and lips.</p> <ul style="list-style-type: none"> <li>• Able to understand the age changes of normal oral structures</li> <li>• Able to learn the chronology and pattern of tooth eruption and its clinical significance</li> <li>• To learn the physiologic process of tooth development.</li> <li>• To learn in detail the formation of enamel, dentine, cementum, pulp, periodontal ligament, salivary glands and Temporo- mandibular joint.</li> <li>• To learn the mechanisms and theories of tooth eruption</li> </ul>	
5	<b>General Pathology</b>	<ul style="list-style-type: none"> <li>• To learn about the causes &amp; pathogenesis of diseases</li> <li>• To demonstrate the knowledge and understanding of general pathological and preventive knowledge about diseases</li> <li>• To apply pathological knowledge in practising dental surgery to improve the oral and dental health</li> </ul>	<ul style="list-style-type: none"> <li>• Test for abnormal constituents of urine like sugar, albumin, ketone bodies</li> <li>• Demonstration of specimens. OSPE:</li> <li>• Hematological investigation – total and differential count</li> </ul>
6	<b>Microbiology</b>	<ul style="list-style-type: none"> <li>• To have knowledge &amp; understanding about</li> </ul>	<ul style="list-style-type: none"> <li>• To study different types and parts of</li> </ul>



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		sterilization, asepsis and infection prevention <ul style="list-style-type: none"> <li>To learn about the characteristics of different types of disease causing microorganisms</li> </ul>	microscope OSPE: <ul style="list-style-type: none"> <li>Gram staining</li> <li>Biomedical waste segregation</li> <li>Handwashing technique</li> </ul>
7	<b>General Pharmacology</b>	<ul style="list-style-type: none"> <li>Describe indications, contraindications and side effects of medicines related to dental practice.</li> <li>To manage dental pain</li> <li>To learn about the proper use of local anaesthetic agents</li> <li>To prescribe drugs for common dental problems</li> <li>To learn therapeutic decision making</li> <li>To write rational prescription</li> </ul>	OSPE: <ul style="list-style-type: none"> <li>Preparation of tooth powder</li> <li>Preparation of tooth paste</li> <li>Writing prescription</li> </ul>
8	<b>Dental materials</b>	<ul style="list-style-type: none"> <li>To have knowledge about physical and chemical properties of dental materials</li> <li>A student must learn to manipulate dental materials to be used in clinical practice</li> </ul>	<ul style="list-style-type: none"> <li>Making of impression with impression compound</li> <li>Manipulation of gypsum products</li> <li>Manipulation of dental cements</li> </ul>



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9	<b>Pre-clinical Conservative Dentistry</b>	<ul style="list-style-type: none"> <li>To develop skills in cavity preparation and restorative procedures</li> <li>To develop skills in the manipulation of dental materials used in conservative dentistry</li> </ul>	<ul style="list-style-type: none"> <li>Cavity preparation in plaster models</li> <li>Cavity preparation and restoration in phantom models</li> </ul>
10	<b>Pre-clinical Prosthodontics</b>	<ul style="list-style-type: none"> <li>To develop skills for fabrication of complete dentures and</li> </ul>	<ul style="list-style-type: none"> <li>Preparation of special trays</li> <li>Preparation of</li> </ul>
	<b>&amp; Crown &amp; Bridge</b>	<p>removable partial dentures</p> <ul style="list-style-type: none"> <li>To develop skills in manipulation of various impression materials for clinical practice</li> </ul>	<p>occlusal rims and teeth setting in articulator</p>



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11	<b>General Medicine</b>	<ul style="list-style-type: none"><li>• The student should be able to perform general physical examination and look for anaemia, cyanosis, clubbing , jaundice and to record vital signs- pulse, BP, temperature.</li><li>• To know history taking from the patient and writing</li><li>• To diagnose various systemic diseases from history and physical findings</li><li>• Interpret and correlate physical findings with investigations like x- ray, hematology, urine and stool examination</li><li>• To learn intramuscular and intravenous injections</li><li>• Prescription writing</li></ul>	<ul style="list-style-type: none"><li>• Patient examination and case presentation</li><li>• Case discussions of diagnosis of various systemic diseases and investigations.</li></ul>
12	<b>General Surgery</b>	<ul style="list-style-type: none"><li>• To identify the common surgical problems, consider the differential diagnosis and complications</li><li>• The student must be able to learn and mention benign and malignant tumors of soft and hard tissue of head and neck</li><li>• To be able to perform minor surgical</li></ul>	OSCE: Patient care- diagnosis and treatment planning Case discussions



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		<p>procedures like incision and drainage of abscess</p> <ul style="list-style-type: none"> <li>• To take biopsy under local anaesthesia</li> <li>• Understanding about personal and patient safety in OPD and OT through proper asepsis and infection prevention</li> <li>• Knowledge and management of shock and appropriate referral in potential emergency situations during dental procedures.</li> </ul>	
13	<b>Oral Pathology and Oral Microbiology</b>	<ul style="list-style-type: none"> <li>• To learn the oral manifestations of systemic diseases</li> <li>• To learn the etiology, clinical features, radiographic and histopathological features of common developmental disturbances of teeth and jaws</li> <li>• To acquire knowledge about clinical and histopathologic features of odontogenic, non- odontogenic and salivary gland tumours</li> <li>• Basic knowledge about biopsy and frozen section in diagnosis of oral disease</li> </ul>	<ul style="list-style-type: none"> <li>• Microscopic examination of histopathologic slides,</li> <li>• Demonstration of specimens</li> <li>• Demonstration of models</li> </ul>
14	<b>Oral Medicine and Radiology</b>	<ul style="list-style-type: none"> <li>• Knowledge about red and white lesions of oral cavity</li> <li>• To know about clinical</li> </ul>	<ul style="list-style-type: none"> <li>• Oral cavity examination with detailed recording of case history</li> </ul>



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		<p>features and laboratory investigations for common infective and non-infective ulcers of the oral cavity</p> <ul style="list-style-type: none"> <li>• Knowledge about radiation safety, hazards,</li> <li>• Must be able to take and interpret intraoral radiographs</li> <li>• Knowledge about clinical features and pathogenesis of vesiculobullous lesions of oral mucosa</li> </ul>	<ul style="list-style-type: none"> <li>• Taking of intraoral periapical radiographs and its interpretation</li> </ul>
15	<b>Conservative Dentistry and Endodontics</b>	<ul style="list-style-type: none"> <li>• To be able to diagnose all types of carious lesions</li> <li>• To prepare class I and class II cavities and restore with amalgam</li> <li>• Competent to carry out small composite restorations</li> <li>• To understand the principles of aesthetic dental procedures</li> <li>• The student should learn about patient assessment and diagnostic procedures for endodontic therapy</li> <li>• Able to perform RCT for anterior teeth</li> </ul>	<ul style="list-style-type: none"> <li>• Class I and class II amalgam restorations</li> <li>• Composite restorations</li> <li>• Deep caries management</li> <li>• Endodontic procedures of anterior teeth</li> </ul>
16	<b>Oral and Maxillofacial Surgery</b>	<ul style="list-style-type: none"> <li>• Able to diagnose, manage and treat patients with oral surgical problems</li> <li>• Understand and practice the basic principles of sterilization</li> <li>• Should be competent in the extraction of teeth</li> </ul>	<ul style="list-style-type: none"> <li>• Extraction of teeth under local anaesthesia</li> <li>• Assisting surgical procedures</li> <li>• Patient history taking</li> <li>• Case discussions</li> </ul>





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		<ul style="list-style-type: none"> <li>• Able to provide primary care and manage medical emergencies in dental office</li> <li>• Have a broad knowledge of maxillofacial surgery and oral implantology</li> <li>• Should be familiar with legal, ethical and moral issues pertaining to the patient care and communication skills</li> </ul>	
17	<b>Orthodontics and Dentofacial Orthopaedics</b>	<ul style="list-style-type: none"> <li>• To understand about the normal growth and development of facial skeleton and dentition</li> <li>• To diagnose different types of malocclusion</li> <li>• To manage and treat simple malocclusion like anterior spacing using removable appliances</li> <li>• Treatment planning and execution of preventive and interceptive orthodontics</li> </ul>	<ul style="list-style-type: none"> <li>• Cephalometric tracing</li> <li>• Orthodontic wire bending</li> <li>• Fabrication of simple orthodontic appliances</li> </ul>
18	<b>Paediatric and Preventive Dentistry</b>	<ul style="list-style-type: none"> <li>• Knowledge about management of dental diseases in children</li> <li>• Able to manage physically and mentally disabled children efficiently according to their treatment needs</li> <li>• Able to guide and counsel the parents about the various paediatric dental treatment modalities available</li> </ul>	<ul style="list-style-type: none"> <li>• Scaling and restorative procedures</li> <li>• Case history taking</li> </ul>



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		<ul style="list-style-type: none"> <li>To understand the principles of prevention and preventive dentistry in children</li> </ul>	
19	<b>Periodontology</b>	<ul style="list-style-type: none"> <li>To diagnose and manage common periodontal diseases</li> <li>To learn the basic principles of periodontal instrumentation and perform it</li> <li>Identification of periodontal instruments</li> <li>To perform scaling and root planning with full aseptic precautions</li> <li>To provide oral hygiene instructions to patients</li> <li>To learn appropriate investigations to diagnose periodontal diseases</li> <li>To have an understanding of prevention of periodontal diseases</li> <li>Must be able to furnish initial treatment plan and treat gingivitis and periodontitis cases</li> <li>To be able to perform minor surgical procedures like abscess drainage, operculectomy etc.</li> </ul>	<ul style="list-style-type: none"> <li>Case history and case discussion</li> <li>Assisting surgical procedures</li> <li>Oral prophylaxis</li> </ul>
20	<b>Prosthodontics and Crown</b>	<ul style="list-style-type: none"> <li>Competent to carry out conventional complete and partial removable</li> </ul>	<ul style="list-style-type: none"> <li>Fabrication of removable and fixed partial</li> </ul>



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	<b>and Bridge</b>	dentures, fixed partial dentures <ul style="list-style-type: none"><li>• Able to understand and use various dental materials</li><li>• Competent to carry out routine prosthodontic procedures</li></ul>	Dentures <ul style="list-style-type: none"><li>• Fabrication of complete dentures</li></ul>
21	<b>Public Health Dentistry</b>	<ul style="list-style-type: none"><li>• Apply the principles of health promotion and disease prevention</li><li>• To have knowledge about provision of community dental health care</li><li>• To have community based preventive measures</li><li>• To administer oral hygiene instructions, topical fluoride therapy, pit and sealant application</li></ul>	<ul style="list-style-type: none"><li>• Conducting Dental health education campaigns</li><li>• Recording of Indices</li><li>• Prevention dental restorative procedures</li></ul>

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