



Maratha Mandal's

Nathajirao G Halgekar Institute of Dental Sciences & Research Centre,
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8.1.8 List and steps taken by college to measure attainment of specific competencies by the BDS

SUBJECT	SPECIFIC COMPETENCIES	STEPS TAKEN TO ATTEND SPECIFIC COMPETENCIES
Dental Materials	<ol style="list-style-type: none">1. Student should know the physical & chemical properties of the material.2. Skill to manipulate various dental materials	<ol style="list-style-type: none">1. Manipulation of dental stone, plaster2. Mixing of various dental cements & to know individual material setting time.3. Self cure & heat cure acrylic cement.
Preclinical Conservative & Endodontics	<ol style="list-style-type: none">1. The student should know the following skills to practice in conservative dentistry2. Should know to diagnose dental caries3. Preparation of class I & II for amalgam restorations & class V & III with GIC4. Able to diagnose pulpally involved teeth, & perform RCT for anterior teeth. Competent to carry out small composite restorations & understand principles of esthetic dentistry.	<ol style="list-style-type: none">1. Cavity preparation, application of base, matrix band & performing amalgam class I & II restorations.2. Class III & V composite & GIC restoration
Human Anatomy including embryology & histology	<ol style="list-style-type: none">1. Students should be able to understand embryology & histology of head & neck region2. And also identify head & neck structures3. Should know the applied aspects of those structures in dentistry	<ol style="list-style-type: none">1. Should be able to draw neat diagrams with labellings2. Dissection of human cadaver & study the dissected parts


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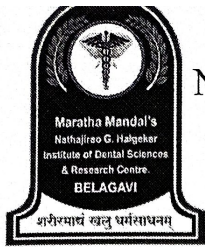
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General Physiology & Biochemistry	<ol style="list-style-type: none">1. Students should know various functioning of different organs2. Should know the pathophysiology of various common diseases like diabetes mellitus, anemia, hypertension etc & also know the basis for their treatment3. Know different types of vitamins & their deficiency manifestations & treatment4. Understand metabolism of carbohydrates ,lipids & proteins.	<ol style="list-style-type: none">1. Perform Blood grouping2. Estimation of RBC & WBC3. Differential leucocyte count4. Estimation of BP5. Estimation of bleeding time & clotting time.6. Identify reducing & nonreducing sugars7. Colour reactions of proteins & amino acids8. Abnormal constituents of urine.
Dental Anatomy & Oral Histology	<ol style="list-style-type: none">1. Student should know morphological features of primary & permanent teeth, its function, eruption sequence & abnormalities.	<ol style="list-style-type: none">1. Drawing & wax carving of permanent tooth2. Microscopic study of tooth germ, enamel, dentin , pulp, alveolar bone , salivary glands & oral mucosa including papillae & taste buds
General Pathology and Microbiology	<ol style="list-style-type: none">1. To acquire knowledge of medical ailments and their clinical consequences2. Familiarize with pathologies of body3. Knowledge of immune reactions	<ol style="list-style-type: none">1. Should know tests for abnormal constituents of urine- blood sugar albumin ketone bodies etc2. Hemoglobin estimation3. Wbc count4. Blood grouping5. Hand washing techniques
General and Dental Pharmacology	<ol style="list-style-type: none">1. Should know the pharmacokinetics and dynamics of drugs used in dentistry2. Acquire knowledge of medications in clinical practice	<ol style="list-style-type: none">1. Preparation of toothpaste calamine lotion gum paint and mouthwash


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General Medicine	<ol style="list-style-type: none">1. Should know the investigations and differential diagnosis before final treatment plan2. Should be familiar with ailments of different body system	<ol style="list-style-type: none">1. Local examination inspection palpation percussion ok specific lesion2. Should know the signs and symptoms of particular disease
General Surgery	<ol style="list-style-type: none">1. Should be knowledgeable about various investigation and differential diagnosis before final treatment plan2. Should have skill to identify and consider the pathological aspect of any case and have sound critical reasoning for management and determining the prognosis	<ol style="list-style-type: none">1. Record detailed case history diagnosis investigation and treatment planning
Oral Pathology and Microbiology	<ol style="list-style-type: none">1. Describe the pathological process that involves oral cavity with their clinical manifestation and differential diagnosis2. Discuss teeth abnormality with help of specimens and plaster cast3. Oral manifestation of systemic diseases correlating with physical signs and lab findings	<ol style="list-style-type: none">1. Identification of histopathological slides2. Identification of tooth specimens and casts
Oral Medicine and Radiology	<ol style="list-style-type: none">1. Should have knowledge about significance of case history recording, develop skills in extra oral and intraoral examination2. Able to identify precancerous and cancerous lesions of oral cavity3. Should have adequate knowledge about common lab investigations4. Should have knowledge about radiation health hazard and safety	<ol style="list-style-type: none">1. Recording case history2. Evaluation of radiographic technique3. Interpretation of radiograph


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Orthodontics and Dentofacial Orthopedics	<ol style="list-style-type: none"> 1. To develop complete understanding about normal growth and development of facial skeleton and dentition 2. Monitoring growth process good dental and skeletal and plan necessary treatment 3. Acquire good communication skills to motivate patients for accepting various treatment options 4. Manage simple malocclusion using removable appliance 5. Ability to diagnose complex malocclusion and refer to a specialist 	<ol style="list-style-type: none"> 1. To fabricate and manage the most appropriate appliance intraoral/ extraoral 2. Tracing of cephalometric exercises 3. Case history recording 4. Fabrication of simple orthodontic appliance
Oral and Maxillofacial Surgery	<ol style="list-style-type: none"> 1. Have good knowledge and understanding of etiology, pathophysiology, diagnosis, and treatment planning of various surgical problems 2. Understand the general surgical principles including pain management 3. Have knowledge about infection control prevention and hospital waste management 4. Should know to examine patient and record blood pressure, and know different injection techniques 5. Should know to extract mobile tooth, firm tooth, root stumps etc and should know various suturing techniques 	<ol style="list-style-type: none"> 1. Recording history 2. Dental extraction under local anaesthesia 3. Assisting oral surgery procedure
Periodontology	<ol style="list-style-type: none"> 1. Diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment 2. Educate and motivate the patient 3. Should know to perform oral prophylaxis, subgingival scaling, root planning, and minor 	<ol style="list-style-type: none"> 1. Case history recording 2. Scaling 3. Assisting surgical procedure 4. Performing minor periodontal surgical procedure

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	<p>periodontal surgical procedure</p> <p>4. Should be giving proper post treatment instructions</p>	
Prosthodontics Crown and Bridge including Implatology	<p>1. Able to understand use of various dental materials</p> <p>2. Should be competent to carry out treatment of conventional complete and partial removable denture and fabricate fixed partial denture</p> <p>3. Able to carry out routine prosthodontic procedure</p> <p>4. Should be familiar with Basic concept of implant procedures</p>	<p>1. Theoretical and practical demonstrations conducted during preclinical and clinical postings for complete denture, removable partial denture, fixed partial denture.</p> <p>2. Understand TMJ occlusion</p>
Paediatric and Preventive Dentistry	<p>1. Should have adequate knowledge of development structure and functions of primary and permanent teeth</p> <p>2. Should be able to instil positive attitude in child towards dentistry</p> <p>3. Understand the principles of preventive dentistry from birth to adolescence</p> <p>4. Should be able to manage and treat dental diseases of special children</p>	<p>1. Case history with comprehensive treatment plan</p> <p>2. Recording dental indices</p> <p>3. Topical fluoride application, pit and fissure sealant</p> <p>4. Should be able to perform extraction, scaling, and restoration</p>
Public Health Dentistry	<p>1. Diagnosis of diseases</p> <p>2. Measure the dental disease</p> <p>3. Prevention of disease</p> <p>4. Promotion of health</p>	<p>1. Case history with comprehensive treatment plan</p> <p>2. Record dental indices</p> <p>3. Field visit (water purification/ sewage treatment/ primary health care)</p> <p>4. Dental camp, oral hygiene instruction, diet counselling</p> <p>5. Cancer awareness camp, specially abled school camp, rallies, and street play</p>


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