

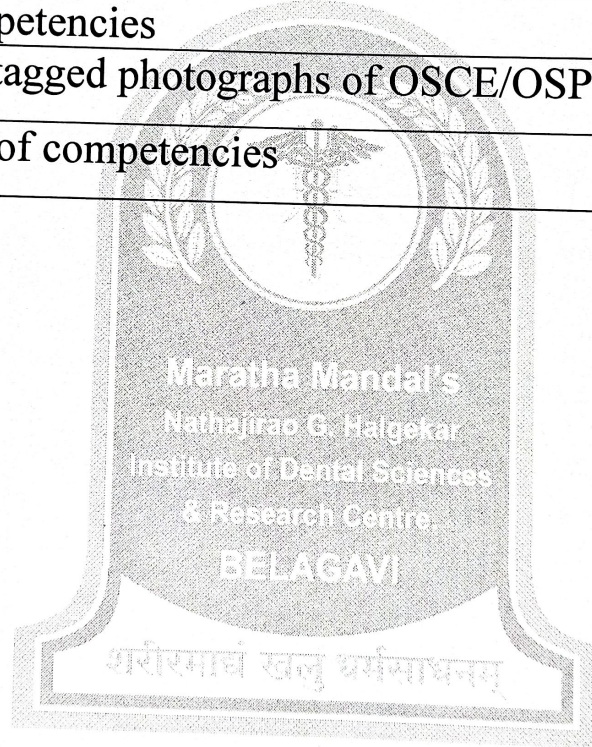
**Maratha Mandal's**  
Nathajirao G Halgekar Institute of Dental Sciences & Research Centre,  
R S No. 47A/2, Near KSRP Ground, Bauxite Road, Belagavi – 590 010  
Karnataka, India

Phone: 0831-2477682 Fax: 0831-2479323  
Email: mmnghids@gmail.com Website: www.mmdc.edu.in

## INDEX

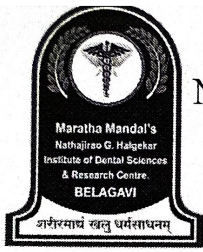
### 8.1.8

Sl. No	Details
1	List and steps taken to measure attainment of specific competencies
2	Geotagged photographs of OSCE/OSPE
3	List of competencies



**Dr. Ramakant Nayak**  
Principal

M.M's. N.G. Halgekar Institute of Dental Sciences  
& Research Centre, Belagavi-590010.



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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"><li>1. Student should know the physical &amp; chemical properties of the material.</li><li>2. Skill to manipulate various dental materials</li></ol>	<ol style="list-style-type: none"><li>1. Manipulation of dental stone, plaster</li><li>2. Mixing of various dental cements &amp; to know individual material setting time.</li><li>3. Self cure &amp; heat cure acrylic cement.</li></ol>
Preclinical Conservative & Endodontics	<ol style="list-style-type: none"><li>1. The student should know the following skills to practice in conservative dentistry</li><li>2. Should know to diagnose dental caries</li><li>3. Preparation of class I &amp; II for amalgam restorations &amp; class V &amp; III with GIC</li><li>4. Able to diagnose pulpally involved teeth, &amp; perform RCT for anterior teeth. Competent to carry out small composite restorations &amp; understand principles of esthetic dentistry.</li></ol>	<ol style="list-style-type: none"><li>1. Cavity preparation, application of base, matrix band &amp; performing amalgam class I &amp; II restorations.</li><li>2. Class III &amp; V composite &amp; GIC restoration</li></ol>
Human Anatomy including embryology & histology	<ol style="list-style-type: none"><li>1. Students should be able to understand embryology &amp; histology of head &amp; neck region</li><li>2. And also identify head &amp; neck structures</li><li>3. Should know the applied aspects of those structures in dentistry</li></ol>	<ol style="list-style-type: none"><li>1. Should be able to draw neat diagrams with labellings</li><li>2. Dissection of human cadaver &amp; study the dissected parts</li></ol>

  
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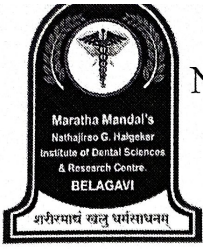
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Email: [mmnghids@gmail.com](mailto:mmnghids@gmail.com) Website: [www.mmhc.edu.in](http://www.mmhc.edu.in)

General Physiology & Biochemistry	<ol style="list-style-type: none"><li>1. Students should know various functioning of different organs</li><li>2. Should know the pathophysiology of various common diseases like diabetes mellitus, anemia, hypertension etc &amp; also know the basis for their treatment</li><li>3. Know different types of vitamins &amp; their deficiency manifestations &amp; treatment</li><li>4. Understand metabolism of carbohydrates ,lipids &amp; proteins.</li></ol>	<ol style="list-style-type: none"><li>1. Perform Blood grouping</li><li>2. Estimation of RBC &amp; WBC</li><li>3. Differential leucocyte count</li><li>4. Estimation of BP</li><li>5. Estimation of bleeding time &amp; clotting time.</li><li>6. Identify reducing &amp; nonreducing sugars</li><li>7. Colour reactions of proteins &amp; amino acids</li><li>8. Abnormal constituents of urine.</li></ol>
Dental Anatomy & Oral Histology	<ol style="list-style-type: none"><li>1. Student should know morphological features of primary &amp; permanent teeth, its function, eruption sequence &amp; abnormalities.</li></ol>	<ol style="list-style-type: none"><li>1. Drawing &amp; wax carving of permanent tooth</li><li>2. Microscopic study of tooth germ, enamel, dentin , pulp, alveolar bone , salivary glands &amp; oral mucosa including papillae &amp; taste buds</li></ol>
General Pathology and Microbiology	<ol style="list-style-type: none"><li>1. To acquire knowledge of medical ailments and their clinical consequences</li><li>2. Familiarize with pathologies of body</li><li>3. Knowledge of immune reactions</li></ol>	<ol style="list-style-type: none"><li>1. Should know tests for abnormal constituents of urine- blood sugar albumin ketone bodies etc</li><li>2. Hemoglobin estimation</li><li>3. Wbc count</li><li>4. Blood grouping</li><li>5. Hand washing techniques</li></ol>
General and Dental Pharmacology	<ol style="list-style-type: none"><li>1. Should know the pharmacokinetics and dynamics of drugs used in dentistry</li><li>2. Acquire knowledge of medications in clinical practice</li></ol>	<ol style="list-style-type: none"><li>1. Preparation of toothpaste calamine lotion gum paint and mouthwash</li></ol>

  
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General Medicine	<ol style="list-style-type: none"><li>1. Should know the investigations and differential diagnosis before final treatment plan</li><li>2. Should be familiar with ailments of different body system</li></ol>	<ol style="list-style-type: none"><li>1. Local examination inspection palpation percussion ok specific lesion</li><li>2. Should know the signs and symptoms of particular disease</li></ol>
General Surgery	<ol style="list-style-type: none"><li>1. Should be knowledgeable about various investigation and differential diagnosis before final treatment plan</li><li>2. Should have skill to identify and consider the pathological aspect of any case and have sound critical reasoning for management and determining the prognosis</li></ol>	<ol style="list-style-type: none"><li>1. Record detailed case history diagnosis investigation and treatment planning</li></ol>
Oral Pathology and Microbiology	<ol style="list-style-type: none"><li>1. Describe the pathological process that involves oral cavity with their clinical manifestation and differential diagnosis</li><li>2. Discuss teeth abnormality with help of specimens and plaster cast</li><li>3. Oral manifestation of systemic diseases correlating with physical signs and lab findings</li></ol>	<ol style="list-style-type: none"><li>1. Identification of histopathological slides</li><li>2. Identification of tooth specimens and casts</li></ol>
Oral Medicine and Radiology	<ol style="list-style-type: none"><li>1. Should have knowledge about significance of case history recording, develop skills in extra oral and intraoral examination</li><li>2. Able to identify precancerous and cancerous lesions of oral cavity</li><li>3. Should have adequate knowledge about common lab investigations</li><li>4. Should have knowledge about radiation health hazard and safety</li></ol>	<ol style="list-style-type: none"><li>1. Recording case history</li><li>2. Evaluation of radiographic technique</li><li>3. Interpretation of radiograph</li></ol>

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

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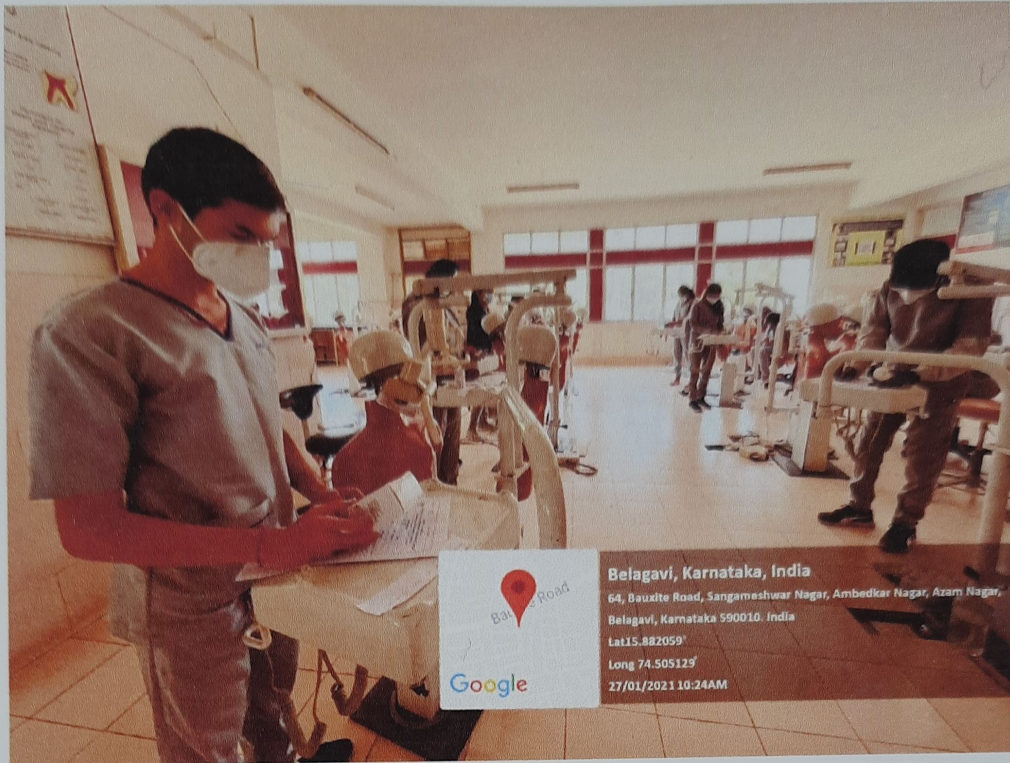
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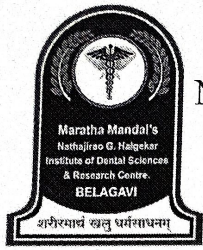
	periodontal surgical procedure 4. Should be giving proper post treatment instructions	
Prosthodontics Crown and Bridge including Implatology	1. Able to understand use of various dental materials 2. Should be competent to carry out treatment of conventional complete and partial removable denture and fabricate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

  
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8.1.8 OSPE EXAMINATION CONDUCTED FOR STUDENTS





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### 8.1.8 LIST OF COMPETENCIES

At the completion of undergraduate training program the graduate shall be competent in the following

#### GENERAL SKILLS

1. Apply knowledge and skills in day to day practice
2. Applied principles of ethics
3. Measure the outcome of treatment
4. Willingness to update the knowledge and skills from time to time
5. Refer patients for consultation and specialised treatment
6. Practice management
7. Evaluate practice location population dynamics
8. Maintain all records
9. Co-ordinate and supervise the activities of allied dental health personal
10. Practice within the scope of one's competence

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#### COMMUNICATION AND COMMUNITY RESOURCES

Assess patients goals values and consent to establish RAPPORT and guide patient care participate in improving overall health of individual through community activity

#### PATIENT CARE TREATMENT PLANNING

1. Able to carry appropriate investigation
2. Management of pain including post operative
3. Management of medical emergencies
4. Prescription of drug
5. Perform simple endodontic procedures
6. Removable and fixed prosthodontic

  
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### **ORAL MEDICINE AND RADIOLOGY**

1. Able to identify precancerous and cancerous lesions
2. Should have adequate knowledge about common laboratory investigation
3. Should have knowledge about radiation health hazards safety and protection
4. Adequate knowledge about extra oral radiographic procedures
5. Competent to take IOPA

### **PAEDIATRIC AND PREVENTIVE DENTISTRY**

1. Able to instill positive attitude and behaviour in child towards dentistry
2. Able to counsel parents in regards to various treatment plan
3. Plan & execute preventive orthodontics and interceptive orthodontics
4. Able to treat special child

### **ORTHODONTIC AND DENTAL FACIAL ORTHOPEDICS**

1. Understand about normal growth and development of facial skeleton and dentition
2. To diagnose aberrations in growth process both dental and skeletal
3. Plan and execute preventive orthodontics & interceptive orthodontics
4. Manage treatment of simple malocclusion with removable appliance
5. Diagnose appropriately and refer patients in case of complex malocclusion

### **PERIODONTOLOGY**

1. Evaluate periodontal status and diagnose patients with periodontal problem
2. Educate and motivate the patient
3. Perform oral prophylaxis sub gingival scaling root planing and minor periodontal surgical procedures

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

1. Able to understand and appropriate use of various dental materials according to clinical need
2. Able to carry out fabrication of complete and partial removable dentures and fixed partial dentures
3. Able to carry out treatment of routine prosthodontic procedure

### **CONSERVATIVE DENTISTRY AND ENDODONTICS**

1. Should be able to diagnose all carious lesion
2. Should be able to perform class 1 and class 2 cavities and restore with amalgam
3. Restore class 5 and class 3 cavities with gic
4. To perform rct on anterior teeth
5. Carry on small composite restoration

### **ORAL AND MAXILLOFACIAL SURGERY**

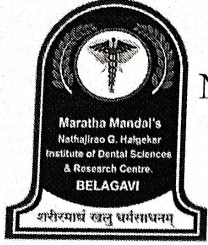
1. Able to apply the knowledge gained in basic Medical and clinical subjects in management of patients with surgical problems
2. Should be familiar with legal ethical and moral issues pertaining to patient care
3. Understand basic principles of asepsis and sterilization
4. Carryout extraction of teeth under local anaesthesia

### **PUBLIC HEALTH DENTISTRY**

1. Apply principles of Health Promotion and disease prevention
2. Have knowledge of organisation and provision of healthcare in community and in hospital services
3. Should have knowledge of prevalence of common dental conditions in India
4. Educate patient concerning the etiology and prevention of oral disease and encourage them to assure responsibility of their oral health

  
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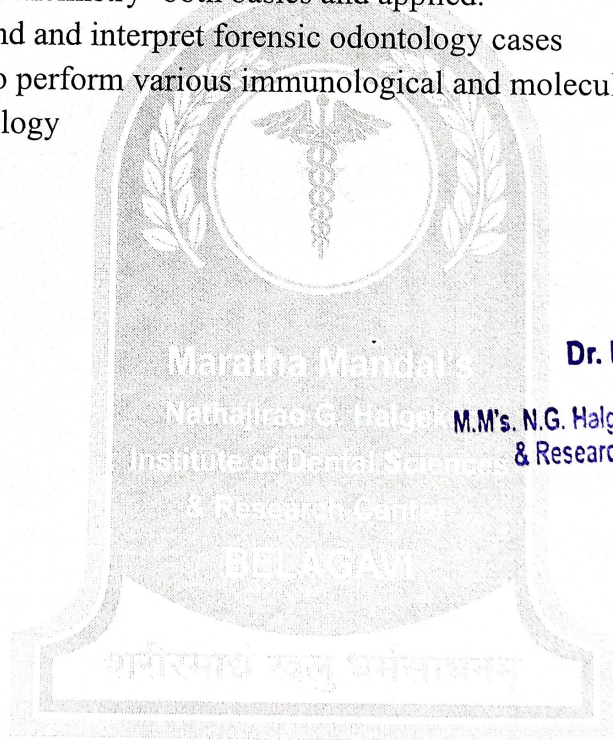
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### ORAL PATHOLOGY & MICROBIOLOGY

1. Should be able to identify and diagnose various Oral Pathological lesions and conditions.
2. Should be able to correlate various Oral Pathological lesions and conditions with systemic condition.
3. Should be able to identify various oral infection affecting hard and soft tissues.
4. Should be able to investigate various oral microbes through culture, differential stains to identify by the microbes
5. Should be able to diagnose oral pathological lesions through histopathology, immunohistochemistry- both basics and applied.
6. To understand and interpret forensic odontology cases
7. To be able to perform various immunological and molecular techniques related to oral pathology



  
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