



**Maratha Mandal's**  
Nathajirao G Halgekar Institute of Dental Sciences & Research Centre,  
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## PROGRAMME-SPECIFIC LEARNING OUTCOMES OF EACH DEPARTMENT

### ORAL MEDICINE AND RADIOLOGY

SR.NO	LEARNING OUTCOME	ASSESSMENT METHOD
1	Attaining an adequate knowledge base (Theoretical)	Three internal assessment for UG students 1 <sup>st</sup> IA, 2 <sup>nd</sup> IA and Prelims For PGs Year End theory exam for each year MDS (1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> ) conducted
2	Communication skills	Evaluated at chair side in clinical postings while taking detailed case history
3	Performance of case history and physical Examination of patient	For UGs Taking Case History, Examination of TMJ, Lymphnodes and intraoral Examination, D/D and Diagnosis For PGs Examination of TMJ, Muscles of mastication, Lymphnodes and intraoral Examination, D/D and Provisional diagnosis and Diagnosis
4	Performance of chairside and radiographic Investigations	For UGs Vitality Test and Radiographic (IOPA, Bitewing) Examination For PGs Vitality Tests, Cytological smear, Vital staining, Biopsy, Punch Biopsy Radiographic (Both Intraoral and extra oral views) Examination,
5	To gain hands on experience on Radiography	UG and PG asked to take different radiographs End posting and Preliminary examination for undergraduates For PGs Every year End Practical exam conducted
6	Age assessment	Radiographic age estimation of mixed dentition by Demirjian method and Modified Demirjian method
7	Attaining adequate skills	Practical examination
8	Application of knowledge (Higher Order)	By taking Structured Viva-voce during each practical examination for both UGs and PGs
9	Appropriate infection control	Radom check by infection control committee
10	Ability to search for and use of scientific literature	For PGs -Evaluation forms
11	Ability to gain experience on research Methodology and carry out research work	For PGs Dissertation is submitted to the university for evaluation
12	Oratory and writing skills	For PGs Evaluation forms ( Journal club, Seminar, Case Presentations and Pedagogy )
13	Ability to record finding adequately	For PGs Evaluation forms for Case History at OPDs

  
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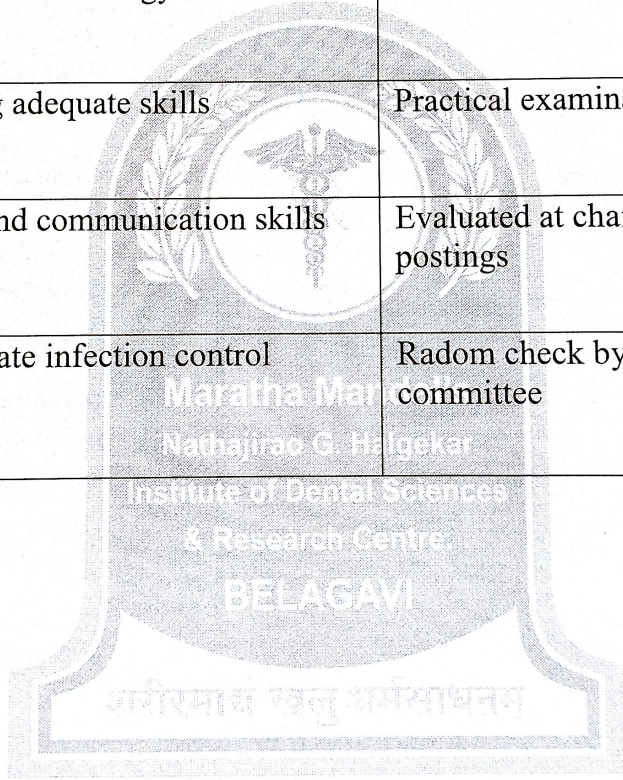
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### PUBLIC HEALTH DENTISTRY

Sl.No	Learning outcome	Assessment method
1	Attaining an adequate knowledge base	Three internal assessment for UG students
2	To gain hands on experience on research methodology	UG research is presented and evaluated internally in the college
3	Attaining adequate skills	Practical examination
4	Ethical and communication skills	Evaluated at chair side in clinical postings
5	Appropriate infection control	Radom check by infection control committee



  
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### ORAL AND MAXILLOFACIAL SURGERY

S. No.	Learning outcome	Assessment method
1.	Able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems	Internal assessment exams by the institute and final qualifying exam conducted by university.
2.	Able to diagnose, manage and treat patients with basic oral surgical problems	Practical examinations conducted at the end of clinical postings.
3.	Have a broad knowledge of maxillofacial surgery and oral implantology	Internal assessment exams by the institute and final qualifying exam conducted by university.
4.	Should be familiar with legal, ethical and moral issues pertaining to the patient care and communication skills	Internal assessment exams by the institute and final qualifying exam conducted by university.
5.	Should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner	Case presentations.
6.	Understand and practice the basic principles of asepsis and sterilisation	Assessment by the staff during the various procedures carried out by the students.
7.	Should be competent in the extraction of the teeth under both local and general anaesthesia	Internal assessment exams by the institute and final qualifying exam conducted by university.
8.	Competent to carry out certain minor oral surgical procedure under LA like trans-alveolar extraction, frenectomy, dento alveolar procedures, simple impaction, biopsy, etc.	Learning by doing under supervision
9.	Competent to assess, prevent and manage common complications that arise during and after minor oral surgery	Learning by doing under supervision
10.	Able to provide primary care and manage medical emergencies in the dental office	Learning by doing under supervision
11.	Familiar with the management of major oral surgical problems and principles involved in the in-patient management	Learning by doing under supervision

  
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### PROSTHODONTICS AND CROWN AND BRIDGE

#### 1<sup>st</sup> and 2<sup>nd</sup> BDS Dental Materials

S. No.	Learning outcome	Assessment method
<b>Theory:- ( Knowledge)</b>		
1	Chemistry of resins used in Dentistry	Three Internal assessment for theory evaluation of 35 marks each. 2 long Question 10 mrks each 3 short essay 5 marks each 5 short answer 2 marks each
2	Dental Porcelains	
3	Tooth restorative materials	
4	Dental Casting Investments	
5	Casting Procedures	
6	Base metal alloys	
7	Abrasive and polishing agents	
8	Dental Implant Materials	
9	Introduction to the sciences of Dental Materials	One Prelim examination 70 marks each
10	Structure and Behavior of Matter	2 long question 10 marks each
11	Impression materials and Duplicating materials	8 short essays 5 marks each 5 short essays 2 marks each
12	Denture Base resins	
13	Metals and Alloys	

#### 1<sup>st</sup> and 2<sup>nd</sup> BDS Dental Materials

S. No.	Learning outcome	Assessment method
<b>Practical ( Skill )</b>		
1	Manipulation of Gypsum	Three Internal assessment for practical evaluation of practical work
2	Manipulation of Impression Compound	
3	Manipulation of all the impression compound and preparation of plaster cast U/L arches	Manipulation of two given impression materials
4	Manipulation of alginate impression and preparation of plaster cast U/L arches	
5	Manipulation of all the Zinc oxide Eugenol Impression paste	Making of Impression making on molds
6	Manipulation of rubber base Impression materials	And Viva Voce
7	Self-cure and heat cure acrylic resin manipulation and curing	One Prelim examination 90 marks each Viva Voce 20 marks

  
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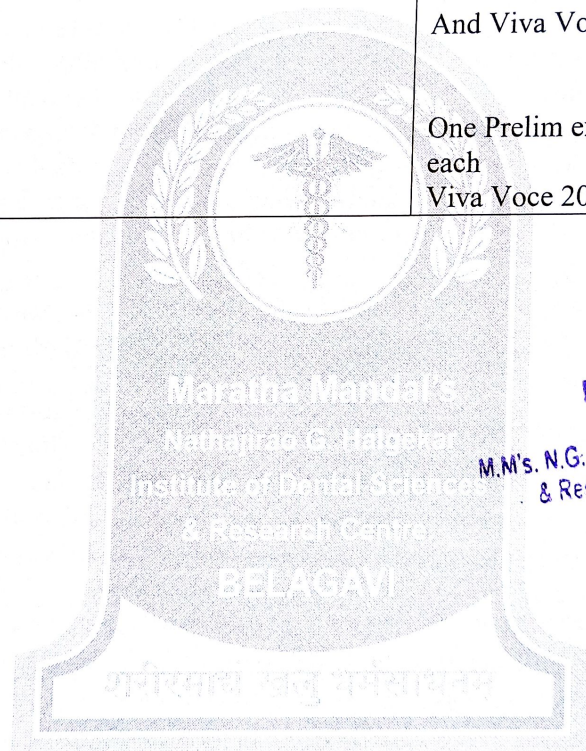
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### 2<sup>nd</sup> BDS PRE CLINICAL PROSTODONTICS

S. No.	Learning outcome	Assessment method
	<b>Practical ( Skill )</b>	
1	Anterior teeth arrangement	Three Internal assessment for practical evaluation of practical work for 60 marks
2	Posterior teeth arrangement	
3	Wax up and Carving.	
4	Finishing and Polishing of the completed teeth arrangement.	Arrangement of Class I teeth arrangement , waxup , finishing and carving
5	Procession of Dentures.	
		And Viva Voce 20 marks
		One Prelim examination 60 marks each
		Viva Voce 20 marks



  
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### CONSERVATIVE DENTISTRY AND ENDODONTICS

S. No.	Learning outcome	Assessment method
1	Attaining adequate knowledge base (Theoretical)	Three internal assessment for UG students I <sup>st</sup> IA, 2 <sup>nd</sup> IA and prelims For PGs Year end theory exam for each year MDS
2	Communication skills	Students would be evaluated for their ability to demonstrate communication skills in particular to explain various options available management and to obtain a true informed consent from the patient
3	Performance of proper chair side history, examine the patient and perform medical and dental diagnostic procedures	For UG s & PG s taking case history, detailed intraoral examination, differential diagnosis, and final diagnosis after correlating the subjective and objectives findings related to dental caries. For PGs examination to diagnose pulp and periapical lesions, internal and external resorptions, traumatic injuries and advanced periapical lesions and teeth requiring esthetic corrections
4	Performance of chair side diagnostic procedures	For UG s vitality test (Heat test, cold test and electric pulp test) and Radiographic (IOPA, Bitewing) examination For PGs vitality test (Heat test, cold test and electric pulp test), Radiographic (IOPA & bitewing), using advanced diagnostic aids like CBCT for interpretation of internal and external resorptions, traumatic injuries and advanced periapical lesions
4	To gain hands on experience on treatment and restoration of tooth lost due to dental caries	For UGs to perform Class I, II, III & IV tooth preparations for amalgam and composite restorations and noncarious lesions in patients. For PGs Indirect restorations such as cast post and core, inlay and onlay preparations in patients. Root canal treatment in patients Esthetic treatment in discolored and fractured teeth
5	Multidisciplinary approach	PGs to diagnose the need for interdisciplinary approach for the treatment using special diagnostic aids like CBCT and angulated radiographs for the treatment of endo-perio lesions, full mouth rehabilitation cases and orthodontic extrusion and intrusion

  
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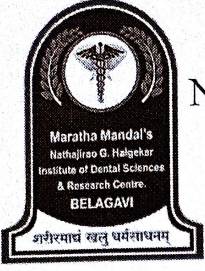
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S. No.	Learning outcome	Assessment method
6	Attaining adequate skills	Through practical examinations on patients
7	Application of knowledge	By taking structured viva voce during each practical examination for both UGs and PGs
8	Appropriate infection control	Students are observed to follow proper infection control protocols by wearing self-protective barriers like gloves, masks, eyewear, surgical gowns and PPE to protect themselves. Proper instrument disinfection protocols like initial chemical disinfection followed by autoclave procedure. Entire disinfection protocol was evaluated by sterilization indicator strips. Random check by infection control committee
9	Ability to search for and use of scientific literature	By conducting Journal Clubs and seminars
10	Ability to gain experience on research methodology and carry out research work	For PGs Short research topic will be given for initial exposure prior to main university dissertation which is submitted to the university
11	Oratory and writing skills	Pedogogy topics were given to students during their university examination. Theory classes were allotted to PGs to expose them to didactic lectures Paper and poster presentation at conferences Writing skills were evaluated by writing publications and dissertations which are submitted to the university
12	Ability to record findings adequately	For PGs case history forms, photographs of clinical pictures pre and post operative pictures, study models and radiographs

  
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### PEDODONTICS

S. No.	Learning outcome	Assessment method
1.	Through knowledge of subject	By conducting Theory internal assessment & preliminary exams
2.	Knowledge of practical skills	Obtained by evaluation of the procedure by staff & during practical exams
3.	Ability to record case history	Case history is discussed with staff
4.	Ability to carry out research by PG	Dissertation is submitted to university for evaluation.

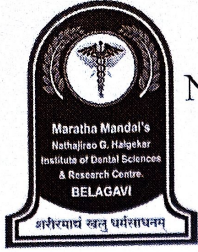
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### ORTHODONTICS

S. No.	Learning outcome	Assessment method
1	Attaining adequate knowledge of the subject	The Department conducts 3 internal assessment examinations. Theory internal marks (10 marks) is judged based on their performance ensuring students have a strong knowledge base.
2	Ability to search for and use scientific literature	PGs present seminars & Journal Club Presentations followed by joint discussion with faculty members
3	Ability to carry out research	Dissertation is submitted to the University for evaluation. Short studies are encouraged to give the Pgs addition exposure to research activities.
4	Oratory and Writing skills	Seminar presentations & internal assessment examination to assess skills
5	Ability to record findings adequately	Chairside case history discussions
6	Appropriate infection control	Random checks by the infection control incharge
7	Attaining adequate skills	Practical Examination
8	Ethical practice and communication skills	Evaluated chairside at the time of clinical Posting

  
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## PERIODONTOLOGY

S.NO	LEARNING OUTCOME	ASSESSMENT METHOD
1	Knowledge base (Theoretical)	Internal assessment UGs- 1 <sup>st</sup> IA, 2 <sup>nd</sup> IA and Prelims PGs Year End theory exam for each year MDS (1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> ) conducted
2	Communication skills	Evaluated at chair side in clinical postings while taking detailed case history
3	Clinical skills Case history recording and Examination of patient	UGs Taking Case History, intraoral Examination, periodontal findings, followed by Periodontal Diagnosis, prognosis & treatment plan. PGs detailed case history, extraoral and intra oral Examination, gingival and periodontal findings detailed, charting, D/D and Provisional diagnosis and Diagnosis, prognosis and treatment plan.
4	Skills- scaling and root planning	UGs-Assessed on patient during 1 <sup>st</sup> , 2 <sup>nd</sup> and prelims exams
5	Sills surgical procedures	Pgs assessed on patient during internal and final exams
6	Application of knowledge (Higher Order)	By taking Structured Viva-voce during each practical examination for both UGs and PGs
7	Attaining adequate skills	Practical examination
8	Ability to search for and use of scientific literature	For PGs -Evaluation forms
9	Ability to gain experience on research Methodology and carry out research work	For PGs Dissertation is submitted to the university for evaluation
10	Oratory and writing skills	For PGs Evaluation forms ( Journal club, Seminar, Case Presentations and Pedagogy )
11	Ability to record finding adequately	For PGs Evaluation forms for Case History at OPDs
12	Communication sckill	UG lectures taken by Pgs.

  
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### ORAL PATHOLOGY AND MICROBIOLOGY

#### Learning outcomes for UG

S. No.	Learning outcome	Assessment method
1	Knowledge assessment	Conducting internal assessment and also taking tests at the end of two to three chapters
2	Skill assessment (pre-clinical work)- tooth carving using wax block	Evaluating the tooth carving by evaluation forms
3	Knowledge and skill	Through practical exams using slides and education models

#### Learning outcomes for PG

S. No.	Learning outcome	Assessment method
1	Knowledge assessment	Conducting written theory exams at center level at the end of every year. Also conducting regular assessment test chapter wise
2	Conducting Research	Evaluation of dissertations to be submitted to university and also literature review through library dissertation. <b>Evaluated through evaluation forms</b>
3	Knowledge and skill	Discussion of histopathological slides, case senarios, journal club and seminar <b>Evaluated through evaluation forms</b>

  
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