



Navodaya Education Trust®
Navodaya Dental College
Raichur



8.1.8 Report on the list and measures taken by the college on attainment of specific competencies by the BDS Students.

The institution follows the curriculum designed by The Dental Council of India and the Rajiv Gandhi University of Health Sciences. After admitting into the course students are introduced to all the branches of dentistry and their role in rendering complete oral health care to the patients. Once they enter the clinical departments students are sensitised to the clinical competencies and are directed to acquire the same at the end of the course.

List of Competencies & Measure Taken to Achieve Them

Sl. No	Subject	Specific Competencies	Steps taken to attain the Specific Competencies by BDS students and Interns
1	Dental Materials	<ul style="list-style-type: none"> • A graduate should be able to demonstrate the following skills necessary for practice of dentistry • Students should know about the physical & chemical properties of dental materials 	<ul style="list-style-type: none"> • Manipulation of dental cements • studying the setting time of various cements • Silver amalgam manipulation & trituration • Manipulation of Gypsum • Manipulation & curing of heat cure & self cure acrylic resins
2	Pre Clinical Conservative Dentistry	<ul style="list-style-type: none"> • To develop skills in manipulation of various materials used in Conservative Dentistry • To develop skills in preparation of various cavities & to perform various restorative procedures 	<ul style="list-style-type: none"> • Cavity preparations • Application of base & Matrix • Restoration of tooth Finishing & polishing
3	Pre Clinical Prosthodontics & Crown and Bridge	<ul style="list-style-type: none"> • To develop skills in manipulation of various materials used in Prosthodontics • To develop skills in anatomical landmarks in plaster model, impression making, crown preparation, teeth setting, fabrication of complete dentures 	<ul style="list-style-type: none"> • Preparation of special trays, temporary & permanent denture bases, • Preparation of occlusion rims, orientation of occlusal rims on articulators • Arrangement of teeth, processing of complete denture.

4	Oral Pathology & oral Microbiology	<ul style="list-style-type: none"> • Microscopic study of basic tissues of the body, all oral tissues and common lesions affecting oral tissues through microscopic slides. • Study of teeth anomalies through tooth specimens and plaster casts • Study of haematological preparations and interpret the findings. • preparing ground sections 	<ul style="list-style-type: none"> • Identification of histopathological slides • Spotters of dental diseases. • Analysis of study models. • Identification of tooth specimens. • Topic discussions.
5	Oral Medicine & Radiology	<ul style="list-style-type: none"> • Able to identify dental problems like dental caries by doing clinical examination and radiographic interpretations. • Able to identify precancerous & cancerous lesions of the oral cavity, their identification by vital staining & their managements. • Should have adequate knowledge about common laboratory investigations & interpretations. • Should have adequate knowledge about medical complications & systemically compromised patients & take prior precautions /consent from the concerned • Have adequate knowledge about radiation safety & Health hazards & its protection • Competent to take intra oral radiographs,& interpret the radiographic findings • Gain adequate knowledge on 	<ul style="list-style-type: none"> • Case history recordings • Chair side Case discussions . • Demo and exercise on Intra oral and extra oral Radiographic techniques interpretations . • Exercise:Ideal intra oral radiographs • Age Estimation using extra oral radiographs. • Vital staining of the precancerous diseases. • Electric pulp vitality testing. • FNAC and biopsy procedures.

		<p>interpretation of OPG and other extra oral radiographs.</p> <ul style="list-style-type: none"> • Gain adequate knowledge of various extra oral radiographic procedures, TMJ radiography & sialography • Adequate knowledge of Forensic radiology in identification & Age estimation • Should be familiar with jurisprudence, ethics & understand the significance of dental records with respect to law 	
6	Conservative Dentistry & Endodontics	<ul style="list-style-type: none"> • Competent to diagnose all carious lesions • Competent to perform class I & class II cavities & their restoration with amalgam • Restore class V & III cavities with GIC cement • Able to diagnose & appropriately manage pulpally involved teeth (pulp Capping procedures) • Able to perform RCT for anterior teeth • Competent to carry out small composite restorations • Understand the principles of esthetic dental procedures 	<ul style="list-style-type: none"> • Case history recordings • Case discussions . • Class I & II amalgam restorations • Class III & V composite & GIC restoration s • Class IV composite restorations • Deep Caries management • Assisting in Endodontic Case management . • Demo of rubber dam placement, mixing cements.

7	Prosthodontics & Crown and Bridge	<ul style="list-style-type: none"> • Able to understand & use various dental materials • Competent to carry out treatment of conventional complete & partial removable dentures & fabricate FPD's • Able to carry out treatment of routine prosthodontic procedures like fabricating conventional complete denture and Removable partial denture. • Familiar with the value of implant supported prosthodontic procedures 	<ul style="list-style-type: none"> • Complete Denture • Removable Partial Denture • Fixed Partial Denture
8	Orthodontics & Dentofacial orthopaedics	<ul style="list-style-type: none"> • Understand about normal growth & development of facial skeleton & dentition • To analyze the growth process both dental & skeletal & plan necessary treatment • Diagnose the various categories of malocclusions • Able to motivate & explain to the patient about the necessity of treatment • Plan & execute preventive orthodontics eg. Space maintainers /space regainers. • Plan & execute interceptive orthodontics(habit breaking appliances). • Manage treatment of simple malocclusion such as anterior spacing using removable appliances 	<ul style="list-style-type: none"> • Case history recording • Case discussions . • Wire bending exercises. • Impression taking and model preparations. • Model analysis. • Cephalometric tracing and analysis • Orthodontic appliances-removable with their delivery and activation .
9	Periodontology	<ul style="list-style-type: none"> • Diagnose the patients with 	<ul style="list-style-type: none"> • Case history recording

		<p>periodontal problem, plan & perform appropriately</p> <ul style="list-style-type: none"> • Competent to educate & motivate the patient • Competent to perform thorough oral prophylaxis, root planning & other minor periodontal procedures • Give proper post treatment instructions & do periodic recall & evaluation • Should be competent to demonstrate the tooth brushing techniques to the patients. • Able to motivate and educate patient regarding maintenance of good oral hygiene. • Able to understand the basic concept of Lasers and Electrocautery in periodontal practice. 	<ul style="list-style-type: none"> • Scaling • Local drug delivery • Brushing technique on models.
10	Pediatrics & preventive Dentistry	<ul style="list-style-type: none"> • Able to instill a positive attitude & behaviour in children towards oral health & understand the principles of preventive dentistry right from birth to adolescents • Able to guide & counsel parents with regard to various dental treatment modalities • Able to treat dental disease occurring in child patients • Able to manage physically & mentally challenged children effectively & efficiently according to their individual needs , requirements & conditions 	<ul style="list-style-type: none"> • Case history recording • Demo of rubber dam placement, mixing cements, wire bending exercises, • Topic discussions • Behaviour management skills. • Preparation of mouth guards. • Habit breaking appliances • Assisting pulp therapies under GA and LA.

11.	Public Health dentistry.	<ul style="list-style-type: none"> • Apply the principles of health promotion and disease prevention. • Have knowledge of the prevalence of common dental conditions in India. • Have knowledge of community based preventive measures . • Have knowledge of the social,cultural,and environmental factors which contribute to health or illness. • Educate patients about the aetiology and prevention of oral diseases and encourage them to assure repositibility of their oral health. 	<ul style="list-style-type: none"> • Case history recording. • Preventive dental procedures like flouride applications , sealants etc. • Recording of dental indices. • Field and survey programmes. • Dental health education camps. • surveys
12.	Oral and maxillofacial surgery	<ul style="list-style-type: none"> • Able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems. • Able to diagnose , manage and treat patients with basic surgical problems. • Have a broad knowledge of maxillofacial surgery and oral implantology. • Should have acquired the skill to examine any patient with an oral surgical problems in an orderly manner. • Understand and practise the basic principles of asepsis and sterilisation. • Should be competent in the extraction of teeth in LA and general anaesthesia. 	<ul style="list-style-type: none"> • Case history recording • Dental extractions under LA. • Assisting minor oral surgical procedures. • Various suturing techniques. • Model arch bar wiring techniques-Demo • Case presentations, seminars,Discussions.

		<ul style="list-style-type: none">• Competent to carry out certain minor surgical procedures under LA like frenectomy, simple impaction etc.• Competent to assess, prevent and manage common complications that arise during and after minor oral surgery.• Able to provide primary care and manage medical emergencies in the dental offices.	
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