



# SRI VENKATESWARA DENTAL COLLEGE & HOSPITAL



(A unit of VELS Group, Pallavaram)

Approved by Government of Tamilnadu (Lr. No. TN35013/MCA-2/2003; dt.7.9.2006) Approved by Dental Council of India, New Delhi  
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Affiliated to the Tamil Nadu Dr.MGR Medical University

**NAAC ACCREDITED**

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Subject/ Course	Specific competencies/outcomes	Assessment methods taken to help achieve the competencies
<b>BDS PROGRAM</b>		
<b>Anatomy</b>	To locate various structure of the body and to mark the topography of the living anatomy <input type="checkbox"/> To identify various tissues under microscope <input type="checkbox"/> To identify the features in radiography and modern imaging techniques. <input type="checkbox"/> To detect various congenital abnormalities.	Demonstrations <input type="checkbox"/> Dissection of human cadavers <input type="checkbox"/> Study of dissected specimens
<b>Physiology</b>	Conduct experiments designed for the study of physiological phenomena. <input type="checkbox"/> Interpret experimental and investigative data <input type="checkbox"/> Distinguish between 'normal and abnormal data derived as a result of tests which he/she has performed and observed in the laboratory.	Enumeration of Red Blood Cells. Enumeration of White Blood Cells. Differential leucocyte counts. Recording of blood pressure. Determination of Haemoglobin. Determination of blood group. Determination of, bleeding time and clotting time  <b>OSPE:</b> Recording Blood Pressure by Palpatory Method <input type="checkbox"/> Examining Radial Pulse

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<b>Biochemistry</b>	<p>Make use of conventional techniques/instruments to perform</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> biochemical analysis relevant to clinical screening and diagnosis;</li> <li><input type="checkbox"/> Analyze and interpret investigative data;</li> <li><input type="checkbox"/> demonstrate the skills of solving scientific and clinical problems and decision making in dentistry</li> </ul>	<p>Qualitative analysis of carbohydrates-</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Identification of reducing &amp; non reducing sugar</li> <li><input type="checkbox"/> Colour reactions of proteins and amino acids</li> <li><input type="checkbox"/> Normal constituents of urine-</li> </ul> <p>Demonstration-</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> organic constituents</li> <li><input type="checkbox"/> inorganic constituents</li> <li><input type="checkbox"/> Abnormal constituents of urine</li> <li><input type="checkbox"/> Analysis of saliva including amylase by qualitative methods</li> <li><input type="checkbox"/> Blood glucose estimation – GOD/POD method</li> <li><input type="checkbox"/> Serum total protein estimation - Biuret method</li> <li><input type="checkbox"/> Urine creatinine estimation</li> </ul> <p>Demonstration</p>
Dental Anatomy, Embryology And Oral Histology	<p>Able to carve and reproduce the morphology of human permanent teeth in wax blocks</p> <ul style="list-style-type: none"> <li>o Able to identify different oral hard tissues in clinical situations</li> </ul> <p>Able to differentiate normal from abnormal and diseased states</p> <ul style="list-style-type: none"> <li>o Able to identify various types of human teeth based on their morphology</li> <li>o Able to appreciate the influence of age, gender and race on oral and para-oral structures</li> <li>o Able to locate the different areas/surfaces of the teeth</li> <li>o Able to understand the implications of the disease process and ageing on normal oral structures</li> <li>o Able to appreciate the eruption and shedding pattern of human teeth</li> <li>o Able to appreciate and integrate the concept of occlusion, range of human jaw movements in preclinical and clinical situations</li> <li><input type="checkbox"/> Able to use effectively the terminologies and anatomical terms for clinical and patient communications</li> </ul>	<p>Drawing and wax carving of permanent tooth except mandibular canine, maxillary second premolars, maxillary second molars, and third molars.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Microscopic study of tooth germ, enamel, dentin, pulp, cementum, periodontal ligament, alveolar bone, salivary glands and oral mucosa including papillae</li> </ul>

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General Pathology	<p>Should identify the abnormal diseases like tumor, non-tumors and also to arrive what are the investigations needed for the diagnosis of the diseases.</p> <p>Carry out certain investigations</p> <p>Ability to interpret lab findings</p>	<p>Urine – Tests for Abnormal constituents Sugar, albumin, ketone bodies, Blood, bile salts, bile pigments.</p> <p><b>OSPE:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Haemoglobin (Hb) estimation</li> <li><input type="checkbox"/> Total WBC count from the peripheral smear</li> <li><input type="checkbox"/> Differential WBC Count and commenting on the peripheral smear</li> <li><input type="checkbox"/> Blood grouping</li> </ul>
Microbiology	<p>Student should have acquired the skill to diagnose, differentiate various oral lesions.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Should be able to select, collect and transport clinical specimens to the laboratory.</li> <li><input type="checkbox"/> Should be able to carry out proper aseptic procedures in the dental clinic.</li> <li><input type="checkbox"/> Interpretation of antimicrobial susceptibility tests and to make right choice of antibiotic based on spectrum of infection and ensure appropriate use to avoid antibiotic resistance</li> </ul>	<p>Microscopy-Different types, parts, maintenance and usage</p> <p><b>OSPE:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Gram staining</li> <li><input type="checkbox"/> ZiehlNeilsen's staining</li> <li><input type="checkbox"/> Hand washing Technique</li> <li><input type="checkbox"/> Bio medical waste segregation</li> </ul>
General Pharmacology	<p>Prescribe drugs for common medical and dental ailments.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Appreciate adverse reactions and drug interactions of commonly used drugs</li> <li><input type="checkbox"/> Observe experiments designed for study of effects of drugs.</li> <li><input type="checkbox"/> Critically evaluate drug formulations and be able to interpret the clinical pharmacology of marketed preparations commonly used in dentistry.</li> </ul>	<p><b>OSPE:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Preparation of Tooth Paste</li> <li><input type="checkbox"/> Preparation of Tooth Powder</li> <li><input type="checkbox"/> Writing of Prescription</li> </ul>



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Dental Materials	To develop skills in the management of various materials in dentistry. Students should know about the physical and chemical properties of the dental materials	Manipulation of Gypsum <input type="checkbox"/> Self-cure and heat cure acrylic resin manipulation and curing  Cements - manipulation and studying setting time <input type="checkbox"/> Silver Amalgam - manipulation, trituration
Pre-clinical Conservative Dentistry	The students should be able to demonstrate the following skills which are necessary for practice in conservative dentistry To develop skills in manipulation of various materials used in conservative dentistry. To develop skills in preparation of various cavities and to perform various restorative procedures.	Cavity Preparation <input type="checkbox"/> Restoration of tooth <input type="checkbox"/> Base and Matrix <input type="checkbox"/> Restoration and Finishing
Pre-clinical Prosthodontics & Crown & Bridge	Diagnose and manage various common dental problems encountered in general dental practice keeping in mind the expectations and the right of the society to receive the best possible treatment available wherever possible. <input type="checkbox"/> Prevent and manage complications if encountered while carrying out various surgical and other procedures. <input type="checkbox"/> Carry out certain investigative procedures and ability to interpret laboratory findings. <input type="checkbox"/> Promote oral health and help prevent oral disease where possible. <input type="checkbox"/> Control pain and anxiety among the patients during dental treatment	Preparation of special trays <input type="checkbox"/> Preparation of temporary and permanent denture bases <input type="checkbox"/> Preparation of occlusion rims <input type="checkbox"/> Orientation of occlusion rims on articulator <input type="checkbox"/> Arrangement of teeth <input type="checkbox"/> Processing of complete dentures



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General Medicine	<p>Take a proper case history from the patient</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Do a complete general physical examination include build and nourishment</li> <li><input type="checkbox"/> Assess the vitals-recording the details of Pulse, recording the BP, temperature, checking capillary blood glucose and oxygen saturation</li> <li><input type="checkbox"/> Look for cyanosis, clubbing, pallor, icterus, pedal edema, lymphadenopathy, rashes, ecchymosis</li> </ul> <p>Able to examine the CVS, RS, abdomen and the facial nerve</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Interpret the elicited signs and symptoms of various systemic disease processes</li> <li><input type="checkbox"/> Interpreting lab reports such as importance of CBC, RFT, ECG, BT, CT, PT, INR etc</li> <li><input type="checkbox"/> To be trained in simple procedures such as giving intramuscular, intravenous Injection as well as starting an IV line</li> <li><input type="checkbox"/> To be trained in basic life support</li> <li><input type="checkbox"/> Writing prescriptions</li> </ul>	<p>System wise case presentation</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Demonstration of clinical signs</li> <li><input type="checkbox"/> Small group discussion of clinical manifestations, diagnosis, differential diagnosis, investigations and treatment</li> </ul>
General Surgery	<p>Know the interpretation of Radiological films of Head and Neck</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Know the Operative procedures, Post operative complications and Post operative management</li> <li><input type="checkbox"/> To differentiate between Benign and Malignant diseases of Head &amp; Neck</li> <li><input type="checkbox"/> Know to perform minor surgical procedures such as Draining an Abscess and taking a Biopsy</li> </ul>	<p><b>OSCE:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Patient Care – Diagnosis</li> <li><input type="checkbox"/> Patient Care - Treatment Planning</li> </ul>
Oral Pathology and Oral Microbiology	<p>Microscopic study of common lesions affecting oral tissues through microscopic slides &amp; projection slides.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Study of the disease process by surgical specimens.</li> <li><input type="checkbox"/> Study of teeth anomalies/polymorphisms through tooth specimens &amp; plaster casts.</li> <li><input type="checkbox"/> Microscopic study of plaque pathogens.</li> <li><input type="checkbox"/> Study of haematological preparations (blood films) of anaemias &amp; leukemias.</li> <li><input type="checkbox"/> Basic exercises in Forensic Odontology</li> </ul>	<p>Identification of Histopathological slides and spotters of Oral diseases</p>



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Oral Medicine and Radiology	<p>Able to identify precancerous and cancerous lesions of the oral cavity and refer to the concerned</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> specialty for their management</li> <li><input type="checkbox"/> Should have an adequate knowledge about common laboratory investigations and interpretation of their results.</li> <li><input type="checkbox"/> Should have adequate knowledge about medical complications that can arise while treating</li> <li><input type="checkbox"/> systemically compromised patients and take prior precautions/ consent from the concerned</li> <li><input type="checkbox"/> medical specialist.</li> <li><input type="checkbox"/> Have adequate knowledge about radiation health hazards, radiations safety and protection.</li> <li><input type="checkbox"/> Competent to take intra-oral radiographs and interpret the radiographic findings</li> <li><input type="checkbox"/> Gain adequate knowledge of various extra-oral radiographic procedures, TMJ radiography and sialography.</li> <li><input type="checkbox"/> Be aware of the importance of intra- and extra-oral radiographs in forensic identification and age estimation</li> <li><input type="checkbox"/> Should be familiar with jurisprudence, ethics and understand the significance of dental records with respect to law</li> </ul>	<p>Recording of Case History</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Interpretation of Radiographs</li> </ul>
Conservative Dentistry and Endodontics	<p>Competent to diagnose all carious lesions</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Competent to perform Class I and Class II cavities and their restoration with amalgam</li> <li><input type="checkbox"/> Restore class V and Class III cavities with glass ionomer cement</li> <li><input type="checkbox"/> Able to diagnose and appropriately treat pulpally involved teeth (pulp capping procedures)</li> <li><input type="checkbox"/> Able to perform RCT for anterior teeth</li> <li><input type="checkbox"/> Competent to carry out small composite restorations</li> <li><input type="checkbox"/> Understand the principles of aesthetic dental procedures</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Class I Amalgam Restoration</li> <li><input type="checkbox"/> Class II Amalgam Restoration</li> <li><input type="checkbox"/> Class III &amp; V – Composite and GIC Restoration</li> <li><input type="checkbox"/> Class IV – Composite</li> <li><input type="checkbox"/> Deep Caries Management</li> <li><input type="checkbox"/> Endodontic Cases</li> <li><input type="checkbox"/> Acrylic Jacket Crowns</li> </ul>



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Oral and maxillofacial surgery	<p>Able to apply the knowledge gained in the basic medical and clinical subjects in the management of patients with surgical problems</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> able to diagnose, manage and treat patients with basic oral surgical problems</li> <li><input type="checkbox"/> Have a broad knowledge of maxillofacial surgery and oral implantology</li> <li><input type="checkbox"/> Should be familiar with legal, ethical and moral issues pertaining to the patient care and communication skills</li> <li><input type="checkbox"/> Should have acquired the skill to examine any patient with an oral surgical problem in an orderly manner</li> <li><input type="checkbox"/> Understand and practice the basic principles of asepsis and sterilisation</li> <li><input type="checkbox"/> Should be competent in the extraction of the teeth under both local and general anaesthesia</li> <li><input type="checkbox"/> Competent to carry out certain minor oral surgical procedure under LA like trans-alveolar extraction, frenectomy, dento alveolar procedures, simple impaction, biopsy, etc.</li> <li><input type="checkbox"/> Competent to assess, prevent and manage common complications that arise during and after minor oral surgery</li> <li><input type="checkbox"/> Able to provide primary care and manage medical emergencies in the dental office</li> <li><input type="checkbox"/> Familiar with the management of major oral surgical problems and principles involved in the inpatient management</li> </ul>	<p>Recording of Case History</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Dental Extraction under Local anesthesia</li> <li><input type="checkbox"/> Assisting of Oral Surgery procedures</li> </ul>



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Orthodontics and Dentofacial Orthopaedics	<p>Understand about normal growth and development of facial skeleton and dentition.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Pinpoint aberrations in growth process both dental and skeletal and plan necessary treatment</li> <li><input type="checkbox"/> Diagnose the various malocclusion categories</li> <li><input type="checkbox"/> Able to motivate and explain to the patient (and parent) about the necessity of treatment</li> <li><input type="checkbox"/> Plan and execute preventive orthodontics (space maintenance or space regaining)</li> <li><input type="checkbox"/> Plan and execute interceptive orthodontics (habit breaking appliances)</li> <li><input type="checkbox"/> Manage treatment of simple malocclusion such as anterior spacing using removable appliances</li> <li><input type="checkbox"/> Handle delivery and activation of removable orthodontic appliances</li> <li><input type="checkbox"/> Diagnose and appropriately refer patients with complex malocclusion to the specialist</li> </ul>	<p>Wire bending Exercises</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Study model</li> <li><input type="checkbox"/> Cephalometric exercises</li> <li><input type="checkbox"/> Case sheet Recording</li> <li><input type="checkbox"/> Clinical work – Orthodontic appliances</li> </ul>
Paediatric and Preventive Dentistry	<p>Able to instill a positive attitude and behavior in children towards oral health and understand the principles of prevention and preventive dentistry right from birth to adolescence.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Able to guide and counsel the parents in regards to various treatment modalities including different facets of preventive dentistry.</li> <li><input type="checkbox"/> Able to treat dental diseases occurring in child patient.</li> <li><input type="checkbox"/> Able to manage the physically and mentally challenged disabled children effectively and efficiently, tailored to the needs of individual requirement and conditions.</li> </ul>	<p>Case sheet recording</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Restoration</li> <li><input type="checkbox"/> Extraction</li> <li><input type="checkbox"/> Scaling</li> </ul>



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Periodontology	Diagnose the patient's periodontal problem, plan and perform appropriate periodontal treatment <ul style="list-style-type: none"> <li><input type="checkbox"/> Competent to educate and motivate the patient</li> <li><input type="checkbox"/> Competent to perform thorough oral prophylaxis, subgingival scaling, root planing and minor periodontal surgical procedures</li> <li><input type="checkbox"/> Give proper post treatment instructions and do periodic recall and evaluation</li> <li><input type="checkbox"/> Familiar with concepts of osseointegration and basic surgical aspects of Implantology</li> </ul>	Case history Recording <ul style="list-style-type: none"> <li><input type="checkbox"/> Scaling</li> <li><input type="checkbox"/> Assisting Surgical Procedures</li> </ul>
Prosthodontics and Crown & Bridge	Able to understand and use various dental materials <ul style="list-style-type: none"> <li><input type="checkbox"/> Competent to carry out treatment of conventional complete and partial removable dentures and fabricate fixed partial dentures</li> <li><input type="checkbox"/> Able to carry out treatment of routine prosthodontic procedures.</li> <li><input type="checkbox"/> Familiar with the concept of osseointegration and the value of implant-supported Prosthodontic procedures</li> </ul>	Complete denture <ul style="list-style-type: none"> <li><input type="checkbox"/> Removable partial Denture</li> <li><input type="checkbox"/> Fixed Partial Denture</li> </ul>



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Public Health Dentistry	<p>Apply the principles of health promotion and disease prevention</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Have knowledge of the organization and provision of health care in community and in the hospital service</li> <li><input type="checkbox"/> Have knowledge of the prevalence of common dental conditions in India.</li> <li><input type="checkbox"/> Have knowledge of community based preventive measures</li> <li><input type="checkbox"/> Have knowledge of the social, cultural and Factors which contribute to health or illness.</li> <li><input type="checkbox"/> Administer and hygiene instructions, topical fluoride therapy and fissure sealing.</li> </ul> <p>Educate patients concerning the etiology and prevention of oral disease and encourage them to assure responsibility for their oral health.</p>	<p>Comprehensive Case history</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Recording of Indices</li> <li><input type="checkbox"/> Preventive dental procedures</li> <li><input type="checkbox"/> Field Programs</li> <li><input type="checkbox"/> Oral Health survey</li> <li><input type="checkbox"/> Dental Health Education</li> </ul>



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