

PROGRAM-SPECIFIC LEARNING OUTCOME

S.No	Subject	Specific Competencies	Steps taken to attain the specific competencies
1.	Anatomy	<ul style="list-style-type: none"><li>• To acquire knowledge about structural components of the body (macroscopic and microscopic) and correlate it normal body functions.</li><li>• To emphasize development and developmental anomalies of oral, dental and maxillofacial structures</li></ul>	<ul style="list-style-type: none"><li>• Dissection of human cadavers.</li><li>• Study of preserved specimens.</li><li>• Demonstrations</li></ul>
2.	Physiology	<ul style="list-style-type: none"><li>• To acquire adequate knowledge and skill to perform physiology laboratory tests.</li><li>• To interpret these normal functions with a view to differentiate from abnormal functions</li><li>• To demonstrate the knowledge and understanding of biomolecules</li></ul>	<ul style="list-style-type: none"><li>• Estimation of Hb concentration.</li><li>• Determination of differential count of white blood cell (WBC).</li><li>• Determination of bleeding time &amp; clotting time.</li><li>• Determination of blood grouping &amp; cross matching.</li><li>• Determination of Erythrocyte Sedimentation Rate(ESR).</li><li>• OSPE: Recording BP by palpatory and auscultatory method Examination of radial pulse</li></ul>



**Dean & Principal  
Mamata Dental College  
Khammam - 507 002**

3.	Biochemistry	<ul style="list-style-type: none"> <li>• To apply the knowledge and understanding of biochemistry in dentistry.</li> <li>• To demonstrate the knowledge and understanding of biomolecules forming the structure of the human body, their functions and role in health and disease</li> <li>• To learn the normal biochemical values in conventional and SI. Units To diagnose diabetes.</li> </ul>	<ul style="list-style-type: none"> <li>• To estimate blood glucose.</li> <li>• To Estimate abnormal constituents of urine( sugar, protein &amp; ketonebodies) and their clinical significance</li> </ul>
4.	Dental Anatomy, Embryology And Oral Histology	<ul style="list-style-type: none"> <li>• To identify different teeth in different dentition.</li> <li>• To explain any tooth by its morphology.</li> <li>• To acquire the clinical importance of teeth and oral tissues.</li> <li>• To mention the histological structures of tooth and associated oral structures.</li> <li>• To differentiate between normal and pathological state of oral structures.</li> <li>• To Outline the development of maxillae,</li> </ul>	<ul style="list-style-type: none"> <li>• Wax carving of permanent tooth</li> <li>• Microscopic examination and study of dental and oral structures, salivary glands</li> </ul>




**Dean & Principal**  
**Mamata Dental College**  
**Khammam - 507 002**

		<p>mandible, palate, tongue and lips.</p> <ul style="list-style-type: none"> <li>• Able to understand the agechanges of normal oral structures</li> <li>• Able to learn the chronology and pattern of tooth eruption and its clinical significance.</li> <li>• To learn the physiologicprocess of tooth development.</li> <li>• To learn in detail theformation of enamel, dentine, cementum, pulp, periodontal ligament, salivary glands and Temporo-mandibular joint.</li> <li>• To learn the mechanismsand theories of tooth eruption.</li> </ul>	
5	General Pathology	<ul style="list-style-type: none"> <li>• To learn about the causes &amp; pathogenesis of diseases.</li> <li>• To demonstrate the knowledge and understanding of generalpathological and preventive knowledge about diseases.</li> <li>• To apply pathological</li> </ul>	<ul style="list-style-type: none"> <li>• Test for abnormal constituents of urine like sugar, albumin, ketone bodies.</li> <li>• Demonstration of specimens.</li> <li>• OSPE: Hematological investigation — total and differential count</li> </ul>



**Dean & Principal**  
**Mamata Dental College**  
**Khammam - 507 002**

		knowledge in practising dental surgery to improve the oral and dental health	
6	Microbiology	<ul style="list-style-type: none"> <li>• To have knowledge &amp; understanding about sterilization, asepsis and infection prevention.</li> <li>• To learn about the characteristics of different types of disease-causing microorganisms</li> </ul>	<ul style="list-style-type: none"> <li>• To study different types and parts of microscope</li> <li>• OSPE: Gram staining</li> <li>• Biomedical waste segregation Handwashing technique</li> </ul>

  
**Dean & Principal**  
**Mamata Dental College**  
**Khammam - 507 002**