

**Dental College & Research Centre  
Teerthanker Mahaveer University**

**BDS (Bachelor of Dental Surgery)**

**Programme Outcome**

<b>PO-1</b>	:	To acquire the knowledge and skills to independently manage and successfully operate a private dental practice, manage medical emergencies and build referral practice for patients needing special treatment.
<b>PO-2</b>	:	Become able to be associated with any teaching institute so, that can contribute in skill development and knowledge of candidates pursuing dental course.
<b>PO-3</b>	:	Applying the knowledge to promote public health and creating awareness amongst the people towards developing good oral hygiene practices.
<b>PO-4</b>	:	Developing the skills of patient management, including patient counselling, management of anxiety, patient education and patient satisfaction.
<b>PO-5</b>	:	Is able to develop an acumen to explore and implement new avenues for professional growth.

**Course Outcomes**

<b>BDS101</b>	<b>CO-1</b>	Understand the normal position of the structures in the body, microscopic structure of the various tissues, nervous system, sectional anatomy of head, neck and brain.
	<b>CO-2</b>	Be able to locate various structures of head and neck of the body, identify various tissues under microscope
	<b>CO-3</b>	Knowing the development and growth of the human body.
<b>BDS102</b>	<b>CO-1</b>	Knowing normal functioning of all the organ systems and their interactions, relative contribution of each organ system towards the maintenance of total body function, physiological principles underlying the pathogenesis of various diseases and oral and para - oral structures.
	<b>CO-2</b>	Apply basic clinical skills to conduct and interpret experimental and investigative data.
<b>BDS102 (Biochemistry)</b>	<b>CO-1</b>	Knowing biochemical agents and understanding and applying their concepts to carry out laboratory experiments.
	<b>CO-2</b>	Understanding the process of biochemical processes going inside the human body.
	<b>CO-3</b>	Understanding the role of micro and micro nutrients.
<b>BDS103</b>	<b>CO-1</b>	Knowing the basic knowledge on morphology of both deciduous and permanent teeth, Methods of identifying the teeth and age of the plaster cast
	<b>CO-2</b>	Develop skills in wax carving of teeth, identifying the basic histology slides by microscopy. CO3. Develop potential to efficiently communicate physiological development, morphology, structure & functions of teeth and oral & paraoral tissues & its variations.
<b>BDS201</b>	<b>CO-1</b>	Knowing the pathological changes at macroscopic and microscopic levels,

		capabilities and limitations of morphological Pathology in its contribution to dentistry.
	<b>CO-2</b>	Dental student with an ability to integrate knowledge from the basic sciences to clinical application in dentistry.
<b>BDS201 (Microbiology)</b>	<b>CO-1</b>	Understanding of various infectious diseases and lesions in the oral cavity, various methods of Sterilisation and disinfection.
	<b>CO-2</b>	Develop basic clinical skills to select, collect and transport clinical specimens to the laboratory and be able to carry out proper aseptic procedures in the dental clinic.
<b>BDS202</b>	<b>CO-1</b>	Knowing indications, contraindications; interactions, allergies and adverse reactions of commonly used drugs, use of appropriate drugs in disease with consideration to its efficacy, safety for individual and mass therapy needs.
	<b>CO-2</b>	Advising special care in prescribing common and essential drugs in special medical situations such as pregnancy, lactation, old age, renal, hepatic damage and immune compromised patients.
	<b>CO-3</b>	BE able to prescribe drugs for common dental and medical ailments, appreciate adverse reactions and drug interactions of commonly used drugs.
<b>BDS203</b>	<b>CO-1</b>	Understanding physical, chemical, mechanical and biological properties of all materials used in dentistry.
	<b>CO-2</b>	Be able to manipulate various dental materials.
<b>BDS301</b>	<b>CO-1</b>	Knowing the oral manifestations of systemic diseases, medical emergencies in dental practice. special precautions/ contraindication of anesthesia.
	<b>CO-2</b>	Diagnosing and managing various common medical problems encountered in general, dental practice and dental emergencies.
	<b>CO-3</b>	Analyzing patients general and dental status and evaluating procedures to prevent and manage complications encountered while carrying out various dental surgical and other procedures.
<b>BDS301</b>	<b>CO-1</b>	Develop sound surgical knowledge on anomalies, lesions and diseases of the teeth, mouth and jaws.
	<b>CO-2</b>	Be able to diagnose and manage various common surgical problems encountered in general, dental practice and dental emergencies.
<b>BDS303</b>	<b>CO-1</b>	Acquire basic knowledge on pathogenesis of Oral disease, diagnosis and comparison based on clinical, radiograph and histopathologic features of oral disease
	<b>CO-2</b>	Develop basic clinical skills in preparation of ground sections and oral smears, age estimation based on teeth, identifying and diagnosing the pathology based on light microscopy
	<b>CO-3</b>	Develop ability to effectively communicate diagnosis & correlate with other oral disease with their pathological processes
<b>BDS401</b>	<b>CO-1</b>	Develop skills and attitude in Oral & Maxillofacial Diagnosis, Diagnostic procedures and medical management of such disorders.
	<b>CO-2</b>	Create confident and competent Dental professionals who can accomplish and execute clinical deftness in the diagnosis and management of Orofacial disorders.

<b>BDS402</b>	<b>CO-1</b>	Diagnosing common dental problems and/or capability to assess growth and development variations and suggest necessary referrals or actions as needed timely.
	<b>CO-2</b>	Develop clinical skills to effectively and efficiently perform basic dental treatments in children from birth to adolescence with proper behaviour management of child and the parent, as well as instate positive dental attitude with preventive modalities.
<b>BDS403</b>	<b>CO-1</b>	Diagnosing and treating minor orthodontic problems using removable appliances.
	<b>CO-2</b>	Evaluating and identifying complicated cases and refer for treatment.
<b>BDS404</b>	<b>CO-1</b>	Develop clinical skills to perform nonsurgical and minor surgical periodontal procedures.
	<b>CO-2</b>	Knowing the basic structure of periodontium and its applied aspects.
	<b>CO-3</b>	Apply scientific knowledge to diagnose and formulate treatment plan for various periodontal problems.
<b>BDS405</b>	<b>CO-1</b>	Application of knowledge of related medical subjects in management of patients with oral surgical problem.
	<b>CO-2</b>	Knowing how to diagnose, manage and treat minor oral surgical procedures.
	<b>CO-3</b>	Understanding and exposure to the management of major oral surgical problems and principles involved in inpatient management.
<b>BDS406</b>	<b>CO-1</b>	Develop clinical skill in providing quality restorative treatment and basic endodontic procedures.
	<b>CO-2</b>	Knowing the pulpal and periapical pathologies and formulating a treatment plan for the same.
<b>BDS407</b>	<b>CO-1</b>	Knowing and understanding the prosthetics needs of patients, fabrication of all prosthodontic modes of treatment.
	<b>CO-2</b>	Diagnosing, motivating and treating patients who are partially and completely edentulous (including geriatric patients) with complete and partial dentures
	<b>CO-3</b>	Develop clinical skills to identify cases requiring specialist prosthodontic treatment needs and refer them for further follow up.
<b>BDS408</b>	<b>CO-1</b>	Understand basics of oral health problems in India, methods for collecting data on these problems, methods for prevention and control of these problems at individual and community levels.
	<b>CO-2</b>	Develop basic clinical skills in identifying oral health problems, collecting data on oral health problems prevailing in the country through surveys, developing strategies for their control at individual and community levels.
	<b>CO-3</b>	Communicating effectively the needs of the community, simple self care strategies to promote oral health of population.