

**College of Agriculture Science
Teerthanker Mahaveer University**

MDS (Oral Pathology and Microbiology)

OBJECTIVES:

- To train a post graduate dental surgeon so as to ensure higher competence in both general and special pathology dealing with the nature of oral diseases, their causes, processes and effects.
- An oral pathologist is expected to perform routine histopathological evaluation of specimens relating to oral and perioral tissues, to carry out routine diagnostic procedures including hematological, cytological, microbiological, Immunological and ultra structural investigations.
- He/she is expected to have an understanding of current research methodology, collection and interpretation of data, ability to carry out research projects on clinical and or epidemiological aspects, a working knowledge on current databases, automated data retrieval systems, referencing and skill in writing scientific papers.
- He/ she is expected to present scientific data pertaining to the field, in conferences both as poster and verbal presentations and to take part in group discussions.

BROAD OUTLINE OF THEORETICAL, CLINICAL AND PRACTICAL COURSES

- Study of principles of routine and special techniques used for histopathology including principles of histochemistry, Immunochemistry, applied and theoretical biochemical basis of histochemistry as related to oral pathology.
- Advanced histological and histopathological study of dental and oral tissues including embryonic considerations, clinical considerations, biology, histology, Pathology, prognosis and management of oral oncology, Concepts of oral premalignancy.
- Study of special and applied pathology of oral tissues as well as relation of local pathologic and clinical findings to systemic conditions.
- Oral microbiology and their relationship to various branches of dentistry.
- Oral microbiology affecting hard and soft tissues. Study of clinical changes and their significance to dental and oral diseases as related to oral pathology.
- Forensic odontology.
- Inter institutional postings such as cancer hospital, dermatology clinics, regional HIV detection centers, sophisticated instrumentation centers for electron microscopy and of the techniques.
- Maintenance of records of all postgraduates activities.
- Library assignment.
- University Dissertation.