

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

MD (Biochemistry)

Goals: The goal of MD course in Biochemistry is to produce a competent medical biochemist who

- Is able to demonstrate comprehensive understanding of biochemistry as well as applied disciplines.
- Has acquired the competence pertaining to basic instrumentation and procedures pertaining to biochemistry that are required to be practiced in community and at all levels of health care system.
- Has acquired skills effectively in interpreting all laboratory reports.
- Has the competence to perform relevant investigations which will help to diagnose important medical conditions.
- Has acquired skills effectively in communicating the results to clinicians.
- Should be able to demonstrate empathy and have a human approach towards patients & respect their sensibilities.
- Is oriented to principles of research methodology.
- Has acquired skills in educating medical & paramedical professionals.
- Is able to organize and equip Biochemistry Lab.

Objectives: At the end of MD course the student should be able to:

- Develop skills as a self-directed learner, recognize continuing educational needs; use appropriate learning resources and critically analyze relevant published literature in order to practice evidence-based biochemistry.
- Demonstrate competence in basic concepts of research methodology and epidemiology.
- Practice the specialty of biochemistry in keeping with the principles of professional ethics.
- Organize and supervise the desired managerial and leadership skills.
- Function as a productive member of a team engaged in health care, research and education.
- Perform recent investigations and procedures for patients.
- Demonstrate skills in documentation of reports.
- Facilitate learning of medical/nursing students, practicing physicians & paramedics as Teacher-Trainee.
- Play the assigned role in implementation of national health programs, effectively & responsibly.
- Demonstrate communication skills of a high order in explaining management and prognosis, providing counselling and giving health education message to patients, families & communities.
- Design, fabricate & use indigenous methods/gadgets for experimental purpose.