

(89-MED-03-03) MD – BIOCHEMISTRY

Significance of Program:

helps largely in training students who want to become scientists in identifying, addressing, and solving biomedical problems right at the molecular stage.

Career Options:

A Biochemistry career in India can be both rewarding and promising, with a wide range of opportunities available in various sectors, including research, academia, industry, and healthcare. And faculty in medical colleges

Program Objectives:

The goal of the training program in MD Biochemistry is to enable a student to become a competent teacher/facilitator of teaching-learning processes, researcher, problem solver, and healthcare provider.

Outcomes of the Program:

- 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 diagnosis to the patients and families.
- 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.

Major Course Outlines:

1. Physical and organic aspects of biochemistry, Biostatistics and General Principles of biochemical techniques. II. Cell and Molecular biology, Endocrinology and Immunology. III. Enzymology, Macro and Micronutrients, Intermediary metabolism, Inborn errors of metabolism, Human nutrition. IV. Clinical biochemistry and Recent advances in Biochemistry

CORE	Electives	Skill Course
BIOCHEMISTRY	PATHOLOGY MICROBIOLOGY	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.