

MD BIOCHEMISTRY

Program Outcomes

A Student upon successfully qualifying in MD (Biochemistry) Examinations should be able to:

- ❖ Demonstrate comprehensive understanding of biochemistry as well as applied disciplines.
- ❖ Acquire 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.
- ❖ 6. Should be able to demonstrate empathy and have a human approach towards patients & respect their sensibilities.
- ❖ Is oriented to principles of research methodology.

Course Outcomes

At the end of the course students should:

- ❖ Have 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.
- ❖ Have acquired skills effectively in interpreting all laboratory reports. Has the competence to perform relevant investigations which will help to diagnose important medical conditions.
- ❖ Have 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.
- ❖ Have acquired skills in educating medical & paramedical professionals.
- ❖ Describe and apply biochemical principles to explain the normal state, abnormal disease conditions and mechanism of action used in the perception, diagnosis and treatment of diseases.
- ❖ Explain energy transactions in a living system, and describe importance of biomolecules in sustaining the life process.
- ❖ Describe pathways of the intermediary metabolism along with their

- ❖ Has acquired skills in educating medical & paramedical professionals.
- ❖ Is able to organize and equip Biochemistry lab within or independent of hospital.
- ❖ Apply and integrate knowledge of molecular and metabolic conditions in normal and disease states for clinical problem solving.
- ❖ Conduct interdisciplinary research and manage various research projects for proposal, conduction and final submission.

individual and integrated regulation and apply that in understanding the functioning of the body.

- ❖ Describe and apply the concept of nutrition in health and disease, micro- and macronutrition and essential nutrients, and interlinks of nutrients with metabolism and functions of a living system.