

M.Sc. Medical Biochemistry

PROGRAMME OUTCOME

At the end of the course the students should be able to:

- ❖ Describe the central role of biochemistry as a core discipline within the medical sciences.
- ❖ Describe the principles and fundamental concepts of biochemistry and have an awareness of how molecules, pathways, cells and organs interact in a controlled fashion to create and maintain a living organism.
- ❖ Knowledge on the relationship between the structure of biomolecules and their function.
- ❖ Perform a selected number of biochemical techniques.
- ❖ Perform calculations using chemistry/biochemistry-based formulae in a biomedical laboratory setting.
- ❖ Describe key applications of biochemistry which are relevant to biomedical/pharmaceutical sciences, pharmacy and laboratory medicine.

COURSE OUTCOME

At the end of the course the student should:

- ❖ Make use of conventional techniques / instruments to perform biochemical analysis relevant to clinical screening and diagnosis.
- ❖ Analyze and interpret investigations data.
- ❖ Demonstrate the skills of solving scientific and clinical problems and decision making.
- ❖ The students opting for the Biochemistry programme will have an advanced in depth understanding on all the human biochemical aspects pertaining to the well being and in the pathological state.
- ❖ The course covers the functioning of the major systems such as neurobiochemistry, reproductive physiology, human genetics and endocrinology as well as talks about the application of these systems for the disease condition such as Biochemical Toxicology, Cancer Biology, Clinical Biochemistry and Structural Biology.
- ❖ The students post graduating from the Biochemistry program will have better understanding of the key principles of biochemical functioning at an advanced level.