



COURSE OUTCOME – BIOCHEMISTRY

At the end of the course, the student will be:

- 1) Able to understand and answer structure and functions of different cells and cell organelles.
- 2) Able to understand and demonstrate structural & functional interrelationship of biomolecules, their properties and biological importance.
- 3) Able to understand factors affecting enzyme activity and their biological importance; enzyme inhibition and its clinical significance, enzymes & isoenzyme and their diagnostic uses.
- 4) Able to understand role of nutrition in health, digestion and absorption of nutrients and their transport.
- 5) Able to comprehend metabolism of various biomolecules, their regulation & integration.
- 6) Able to understand biochemical basis of inherited disorders.
- 7) Able to apply knowledge of biochemical regulation of water & electrolyte balance and pH homeostasis.
- 8) Competent in explaining molecular mechanism of gene expression and recombinant DNA technology.
- 9) Able to understand molecular concepts of body defence and their mechanism & their applications in medicine.
- 10) Able to understand environmental biochemistry & related health hazards.

11) Able to explain biochemical basis of cancer & role of liver in metabolism of xenobiotics.

12) Able to understand principles of various instruments involved in lab investigations.

13) Various biomolecules, their metabolism and interrelationship.

14) Clinical aspects of enzymology, inborn errors of metabolism & malnutrition.

15) P^H homeostasis and water electrolyte balance & related disorders.

16) Biochemical basis of genetics and genetic engineering.

17) Environmental health hazards, biochemical basis of cancer.