**School of Biochemistry**

**CSO**

**Basic courses covered in Biochemistry field are**

**BC5A 1.1, Analytical Biochemistry (Core course)**

Analytical Biochemistry study covering biochemical techniques is essential for developing technology skills and trains the learner to work in the research laboratories and research and development sections of industries. The course is of importance for employability in the fields of R&D units.

**BC5A 1.2, Chemistry of Biomolecules**

Chemistry of biomolecules study involving details of major chemical constuents of the cell assist in developing knowledge of their role in biochemistry.

**BC5A 1.3, Cell Biology**

Cell biology knowledge concerning structure and functions of different types of cells and also cell organelles is useful for understanding the various physiological processes.

**BC5A 2.3 and 2.4, Metabolism**

The course of Metabolismconceptulise the individual biochemical reactions and their mechanisms

**The Generic courses of the curriculum requiring biochemistry knowledge are**

**BC5A 1.4, Microbial Biochemistry**

Microbial biochemistry study trains the learner for joining the industrial fields, like Food and Fermentation industry etc. This course of the curriculum gives an opportunity to students in finding jobs in industries.

**BC5A 1.5, Genetics & Microbial Genetics**

The course of **Genetics** forms the basis for understanding the processes of genetic transmission and mutation leading to diversity of the organisms. This has applicability in breeding for developing strain with desirable qualities and also in understanding genetic disorders.

**BC5A 2.5, Nutritional Biochemistry**

Learning Nutritionalbiochemistry course adds knowledge for food qualities, calorie maintainance, planning for balanced diet etc and has applicability in Food and Nutrition fields. Job opportunities for this course include joining with nutritionist, dietician etc.

**BC5A 2.6, General Physiology**

Physiologystudy helps in gaining knowledge related to major functional processes of human being and is of importance in medicinal field.

**BC5A 3.4, Clinical Biochemistry**

Clinical biochemistrystudy develops knowledge concerning pathological states and diseases, hence has applicability in medicinal field.The course helps the learner to find opportunities in pathological laboratories

**BC5A 3.5 and 3.6, Biostatistics and Computer Applications**

Interdisciplinary Courses, like Bistatistics and Computer Applications, train the learner for software applicability and statistical analysis during research.

**Advanced courses included in the programme are**

**BC5A 2.1, Enzymology**

Enzymology covers various types of studies for enzymes being important for use in almost all the biochemical research and drug designing.

**BC5A 2.2, Immunology**

Immunology course of the curriculum has applicability in research for immunotechniquesand for aspects of immunity development.

**BC5A 3.2, Molecular Biology**

Molecular Biology studies are being extremely important for use in almost all the biochemical research and provides the molecular basis of various biological processes.

**BC5A 3.3, Biotechnology**

Biotechnology course is of significance for use in almost all the molecular biological research and various industries.

**BC5A 4.1, Research Project Work**

Project Workas part of curriculum, the students are required to complete dissertation work during Sem IV of the Programme. As they join research institutes/industries for their project work, they get an opportunity to continue in the same field after course completion.