



SACRED HEART COLLEGE (AUTONOMOUS)

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Every Good Work

A Don Bosco Institution of Higher Education, Founded in 1951 * Affiliated to Thiruvalluvar University, Vellore * Autonomous since 1987

Accredited by NAAC (4th Cycle – under RAF) with CGPA of 3.31 / 4 at 'A+' Grade

Name of the Course	Course Code	Name of the Program	Activities with direct bearing on Employability/ Entrepreneurship/ Skill development	Year of introduction
Cell Biology	BC106	B.Sc. Biochemistry	Employability Contents: Cell and its Theory, Structure of Plant and Animal cell. Cells- Prokaryotes and Eukaryotes, Difference between Prokaryotes and Eukaryotes. Activities: Lecture Method, Interactive Presentation and Assignments	2021-22
Biomolecules	BC107	B.Sc. Biochemistry	Employability Contents: Biomolecules- Carbohydrate, Proteins, Amino acids, Lipids, Vitamins & Minerals. Activities: Lecture Method, Interactive Presentation and Assignments	2021-22
Human physiology	BC207	B.Sc. Biochemistry	Employability Contents: Components of blood. Various system of human body. Activities: Lecture Method, Interactive Presentation and Assignments	2021-22

Allied Biochemistry-II	ABC202	B.Sc. Biochemistry	Employability Contents: Components of blood. Various system of human body. Activities: Lecture Method, Interactive Presentation and Assignments	2021-22
Microbiology	BC306	B.Sc. Biochemistry	Employability Contents: Microbiology, Microorganisms -bacteria, viruses and sterilization techniques. Activities: Lecture Method, Interactive Presentation, Group discussion and Assignments	2021-22
Biophysical chemistry	BC307	B.Sc. Biochemistry	Employability Contents: Units of measurement, Buffer systems, Principles of electrochemical techniques. Activities: Lecture Method, Interactive Presentation and Assignments	2021-22
Analytical Biochemistry	BC408	B.Sc. Biochemistry	Employability Contents: General principles of instrumentation and Applications (Chromatography, Centrifugation, Electroporation & Spectrophotometer). Activities: Lecture Method, Interactive Presentation and Assignments	2021-22

Enzymology	BC522	B.Sc. Biochemistry	Employability Contents: Enzymes: Nomenclature, General characteristics, Enzyme Kinetics, Enzyme inhibition, Isolation and purification of enzymes. Activities: Group discussion,	2021-22
Intermediary metabolism	BC523	B.Sc. Biochemistry	Employability Contents: The basic metabolic pathways, Electron Transport Chain, Biosynthesis Fatty Acids, Catabolism of Amino acids, Nucleic Acid Metabolism. Activities: Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22
Endocrinology	BC524	B.Sc. Biochemistry	Employability Contents: Various types of Hormone & its biological actions (Thyroid, Pituitary, Pancreas, Adrenal gland Gonadal hormones). Activities: Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22
Genetics	BC525	B.Sc. Biochemistry	Employability Contents: Pre-Mendelian concepts of heredity, Mendelian Inheritance and laws, Linkage and Crossing over, Chromosomal Mutations & Population Genetics. Activities: Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22

Biomedical Instrumentation	BC526A	B.Sc. Biochemistry	Employability Contents: Biomedical Equipment, Bioelectric signals, Biosensor, Therapeutic instruments.	2021-22
			Activities: Interactive Presentation, Assignments, Group discussion and Lecture Method.	
Medical laboratory technology	BC526B	B.Sc. Biochemistry	Employability Contents: Specimens- Collection, Analysis and preservation of Blood, Urine, Feces, Sputum, Semen, Throat swab, Amniotic fluid and CSF. Activities: Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22
Pharmacology	BC526C	B.Sc. Biochemistry	Employability Contents: Drug, drug metabolism, adverse drug reactions, general awareness of different types of drugs and its effects. Activities: Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22
NME –Energy Builders	NBC504	B.Sc. Biochemistry	Employability Contents: Various types of biomolecules like Carbohydrates, Lipids, Proteins, Vitamins & minerals. Activities: Interactive Presentation, Assignments and Lecture Method.	2021-22

Molecular Biology	BC620	B.Sc. Biochemistry	Employability Contents: Organization of Genes, Replication, Transcription, Translation & Gene Mutation . Activities: Interactive Presentation, Assignments, Group Discussions and Lecture Method.	2021-22
Immunology	BC621	B.Sc. Biochemistry	Employability Contents: Immune Response, Antigen–Antibody interactions, Hypersensitivity & Immunization -types. Activities: Interactive Presentation, Assignments and Lecture Method.	2021-22
Medical Biochemistry	BC622	B.Sc. Biochemistry	Employability Contents: Regulation of blood glucose, Diseases related to amino acid metabolism, Liver function test, Renal function test & Gastric function test. Activities: Interactive Presentation, Assignments and Lecture Method.	2021-22
Nutritional Biochemistry	SSP-II	B.Sc. Biochemistry	Employability Contents: Food, Nutrition, and Diet, Units of energy measurement, Composition of balanced diet and RDA. Activities: Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22