

SACRED HEART COLLEGE (AUTONOMOUS)

Tirupattur – 635 601, Tamil Nadu, S.India

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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	Name of the	Activities with	Year of
Course	Code	Program	direct bearing on	introduction
			Employability/	
			Entrepreneurship/	
			Skill development	
Cell Dynamics	BC709	M.Sc.	Employability	2021-22
		Biochemistry	Contents: Cell types,	
			Cellular organelles,	
			Histopathological	
			Studies, Cell Aging	
			and Death. Activities:	
			Seminar, Lecture	
			Method, Group	
			discussion,	
			Interactive	
			Presentation and	
			Assignments	
Biomolecules	BC710	M.Sc.	Employability	2021-22
		Biochemistry	Contents:	
			Polysaccharides,	
			Classification of	
			Proteins, Watson -	
			Crick Model of DNA	
			structure, Lipids-	
			Classification	
			&Vitamins.	
			Activities: Lecture	
			Method, Seminar,	
			Interactive	
			Presentation and	
			Assignments	

Human Physiology	BC711	M.Sc.	Employability	2021-22
and Nutrition		Biochemistry	Contents: Composition and functions of Blood & physiology of various human sestems. Activities: Lecture Method & Seminar, Presentation.	
Bioinformatics	BC712 A	M.Sc. Biochemistry	Employability Contents: Introduction to Computers, Operating systems, Database- types, RNA Structure Prediction—mFold, Vienna RNA Package and Circles. . Activities: Interactive Presentation, Assignments, Group discussion, Seminar and Lecture Method.	2021-22
Industrial Microbiology	BC712 B	M.Sc. Biochemistry	Employability Contents: Microbial fermentation and its types, Inoculum development, Microbial products of industrial value, Principles of food preservation & Waste management. Activities: Seminars, Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22

Stem Cell	BC712 C	M.Sc.	Employability	2021-22
Technology		Biochemistry	Contents: Stem cells- Sources, classification and Types, Applications of Stem cells, Therapeutic Cloning Strategies, Embryonic and Adult stem cells Therapy & Skeletol Muscle Stem cells. Activities: Lecture Method, Interactive Presentation and Assignments	
Instrumentation Biochemistry	BC809	M.Sc. Biochemistry	Employability Contents: Various techniques such as Electrophoresis, Microscopy, spectroscopy, Chromatography. Activities: Semianr, Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22
Advanced Enzymology	BC810	M.Sc. Biochemistry	Employability Contents: Nomenclature and IUBMB classification of enzymes, Theories of enzyme substrate complex, Mechanism of Enzymic Action, Isolation and Purification of enzymes &Industrial Uses of Enzymes. Activities: Lecture Method, Seminar,	2021-22

			Group discussion	
			Group discussion, Assignments.	
			Assignments.	
Intermediary	BC811	M.Sc.	Employability	2021-22
Metabolism		Biochemistry	Contents:Introduction	
			to Metabolism of	
			Cells, Energy	
			Transformation,	
			Biosynthesis of	
			aromatic aminoacids	
			& Interrelationship of	
			-	
			carbohydrates,	
			Proteins and Fat	
			metabolism.	
			Activities: Lecture	
			Method, Structural	
			Practice, Seminar,	
			Assignments.	
Advanced	BC812A	M.Sc.	Employability	2021-22
Endocrinology		Biochemistry	Contents: Hormones-	
			Introduction and	
			Chemical nature.	
			Endocrine	
			hypothalamus–	
			Structure,	
			hypophysiotropic	
			hormones, Thyroid &	
			Pancreatic hormones,	
			Reproductive	
			Endocrinology.	
			Activities: Lecture	
			Method, Interactive	
			Presentation, Group	
			discussion and	
			Assignments	
Pharmaceutical	BC812 B	M.Sc.	Employability	2021-22
Biochemistry		Biochemistry	Contents: Adverse	
			response to drugs,	
			Biotechnology and	
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			Mechanism of action	
			of drugs &	
			Role of natural	
			products in drug	
			development.	
			Activities: Lecture	
			Method, Seminars,	
			Interactive	
			Presentation and	
			Assignments	
Engline and stal	DC012 C	MC	Encel 111	2021.22
Environmental	BC812 C	M.Sc.	Employability	2021-22
Toxicology		Biochemistry	Contents:	
			Ecotoxicology.	
			Toxicology of major	
			pesticides, Toxicity	
			testing	
			Pulmonary toxicity	
			Nephrotoxicity &	
			Hepatotoxicity.	
			Activities: Lecture	
			Method, Interactive	
			Presentation and	
			Assignments	
Molecular Biology	BC911	M.Sc.	Employability	2021-22
85		Biochemistry	Contents: Mendelian	
		Dioenenisary	Laws of inheritance,	
			replication,	
			Trancription &	
			translation process	
			Activities: Seminar,	
			Interactive	
			Presentation,	
			,	
			Assignments, Group	
			discussion and	
			Lecture Method.	
Immunology	BC912	M.Sc.	Employability	2021-22
		Biochemistry	Contents: Lymphoid	
		, j	system, Types of	
			Immunity, Vaccines,	
			MHC Complex &	
			Transplantation.	
			Activities: Lecture	
			Method, Interactive	
			mender interactive	

			Presentation and]
			Assignments &	
			Seminars.	
			Semmars.	
Research	BC913	M.Sc.	Employability	2021-22
Methodology	20,10	Biochemistry	Contents: Ethics in	
in the dorogy			Scientific research,	
			Collection and	
			Classification of	
			Data, Introduction	
			and Scope of	
			Bioinformatics,	
			Ethics in animal	
			experimentation &	
			Composition of	
			institutional Ethical	
			Committee.	
			Activities: Lecture	
			Method, Seminar, Interactive	
			Presentation and	
			Assignments	
Ecology, evolution	BC914A	M.Sc.	Employability	2021-22
& biodiversity		Biochemistry	Contents:	
			Evolutionary	
			Thoughts &	
			Theories, Origin of	
			genetic variation,	
			Ecology &	
			Ecomanagement.	
			Activities: Lecture	
			Method,	
			Presentations,	
			seminars, Group	
			Discussions.	
Food Biochemistry	BC914B	M.Sc.	Employability	2021-22
		Biochemistry	Contents: Cereal,	
			Role of spices in food	
			science, Nuts and oil	
			seeds, Flesh foods,	
			Sugar and Sugar	

			Activities:	
			Demonstrations, Lecture Method, Seminar, Interactive Presentation and Assignments.	
Bionanotechnology	BC914 C	M.Sc. Biochemistry	Employability Contents: Biomaterials, Nanoparticle synthesis using Plants, Bacteria, Fungi and Virus, Techniques to construct nanostructures & Nanomedicines. Activities: Group discussion, Lecture Method, Interactive Presentation and Assignments, Seminars.	2021-22
Advanced Clinical Biochemistry	BC1009	M.Sc. Biochemistry	Employability Contents: Collection of specimens, metabolism and abnormalities of Lipoproteins, Disorders of protein metabolism, Liver & renal function tests, Free radicals in health and disease. Activities: Interactive Presentation, Assignments, Group discussion and Lecture Method.	2021-22
Project/Dissertation with Viva-Voce	PBC1012 J	M.Sc. Biochemistry	Employability Contents: Reseach Activities. Activities:	2021-22

			Interactive	
			explanation,	
			Discussion.	
Plant	BC1011 A	M.Sc.	Employability	2021-22
:Biochemistry and		Biochemistry	Contents: Structure &	
Molecular Biology			synthesis of	
			chlorophyll,	
			phycobilins and	
			carotenoids, Nitrogen	
			metabolism and plant	
			hormones. Activities:	
			Interactive	
			Presentation,	
			Assignments, Group	
			discussion, Seminar	
			and Lecture Method.	
Medical Diagnostic	BC1011 C	M.Sc.	Employability	2021-22
Technology		Biochemistry	Contents: Collection	
		•	and preservation of	
			Blood, Urine, Faeces,	
			Sputum, Semen,	
			Throat swab and	
			CSF. Activities:	
			Interactive	
			Presentation,	
			Assignments, Group	
			discussion and	
			Lecture Method.	