



SACRED HEART COLLEGE (AUTONOMOUS)

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Ready for
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
Organic Chemistry-I	CH716	M.Sc Chemistry	Entrepreneurship: Content: Formation of dyes using diazotization reactions Activity: Preparation of methyl orange dye from sulfanilic acid precursor	2021-22
Inorganic Chemistry-I	CH717	M.Sc Chemistry	Entrepreneurship: Content: Material Chemistry, Nano particles Activity: Nano materials in biomedical application in drug delivery system, biosensors and cancer therapy. Synthesis of nanoparticles as semiconductors like TiO ₂ , Fe ₂ O ₃ , etc.,	2021-22
Elective-I Analytical Chemistry	CH719A	M.Sc Chemistry	Entrepreneurship: Content : Instrumentation and Applications of spectroscopic and analytical techniques Activity : Apply the	2021-22

			usefulness of instrumentation and set up centers for characterization	
Elective-I Green Chemistry	CH719B	M.Sc Chemistry	Entrepreneurship: Content : Eco friendly Pesticides-Insecticides Activity : Preparation of biopesticides and other agricultural products for marketing	2021-22
Organic Chemistry-II	CH818	M.Sc Chemistry	Entrepreneurship: Content: Stereocentre based asymmetric synthesis Activity: Devise asymmetric steps in organic synthesis, choosing proper reagents for asymmetric synthesis.	2021-22
Elective-II Research Methodology	CH821A	M.Sc Chemistry	Entrepreneurship: Content : Science Direct, STN International. Google, scholar, Scopus-Journal home pages Activity : Acquire and adopt suitable skills to be a research consultant	2021-22
Elective-II Heterocyclic Chemistry	CH821B	M.Sc Chemistry	Entrepreneurship: Content : Principles of heterocyclic synthesis Activity : Apply the reaction schemes to prepare molecules of commercial use	2021-22

Elective-II Bio-Organic Chemistry	CH821C	M.Sc Chemistry	<p>Entrepreneurship: Content : Synthesis, industrial and biological importance of glycosides, amino sugars Activity : Acquire skills to prepare compounds of industrial importance</p>	2021-22
Organic Practicals-I	PCH813	M.Sc Chemistry	<p>Entrepreneurship: Content: Identification of individual components in a two-component organic mixture Activity: Separation of organic mixtures, purification of crude synthetic product, Preparing derivatives for respective functional groups</p>	2021-22
Organic Chemistry-III	CH918	M.Sc Chemistry	<p>Entrepreneurship: Content: Organometallic Compounds, importance of photochemical conversions and pericyclic reactions Activity: Correlation diagrams for predicting the product formation, Analyze the thermally/photochemically, allowed/disallowed reactions for various pericyclic reactions</p>	2021-22
Elective-III Inorganic Photochemistry and Materials Science	CH921A	M.Sc Chemistry	<p>Entrepreneurship: Content : Application of redox processes of electronically excited states for catalytic purposes</p>	2021-22

			Activity : Prepare important materials for catalytic purposes and make them as commercial commodity	
Elective-III Polymer Chemistry	CH921B	M.Sc Chemistry	Entrepreneurship: Content : Important industrial polymers, fire retardant polymers Activity : To prepare commercially important polymers and market them	2021-22
Elective-III Cheminformatics	CH921C	M.Sc Chemistry	Entrepreneurship: Content : Structure searching, Sub structure searching Activity : Apply the structure searching expertise to set up cheminformatics lab	2021-22
Organic Chemistry-IV	CH1017	M.Sc Chemistry	Entrepreneurship: Content: Important strategies for retro synthesis Activity: Interconverting functional groups through various disconnection approach, Arriving targeted drug molecules from simple precursors through various retrosynthetic approaches.	2021-22
Physical Chemistry-III	CH1019	M.Sc Chemistry	Entrepreneurship: Content: Applications of electrochemistry in modern batteries and fuel cells Activity: Construct the modern battery and find	2021-22

			out the suitable electrolyte and its conducting behavior in fuel cell applications.	
Organic Practicals-II	PCH1013	M.Sc Chemistry	<p>Entrepreneurship: Content: Estimating saponification value, estimating iodination value for different oils. Activity: Carrying out saponification reaction and able to make oil to soap</p>	2021-22
Inorganic Chemistry-II	PCH1014	M.Sc Chemistry	<p>Entrepreneurship: Content: Interpretation of Inorganic compounds Activity: Synthesized inorganic compound's structural interpretations using its spectra.</p>	2021-22