Course Outcomes (CO) for Bachelor of Science in Chemistry

CO 1: Strong foundation in the fundamentals and application of theoretical chemistry i.e., analytical, inorganic, organic and physical Chemistry helping to pursue career in industry as well as in research work.

CO2: By using statistical methods in chemical analysis to design experiments, record data and analyze results enhancing their problem solving approach.

CO3: Critical thinking and analytical reasoning to scientific problems.

CO4: Handling of digital instrumentation and techniques helping to understand modern scientific problems.

CO5:Clear communication skill developing through documentation of laboratory note book and presentation.

CO6: Providing opportunity to work in interdisciplinary area.

CO7: Development ofbasic knowledge and application in pharmaceutical chemistry, medicinal chemistry through synthesis and characterization of organic molecules.

CO8: Reducing adverse effects on environmentusing of green techniquesalternative to conventional laboratory methods.

CO 9: Developing new software program for solving chemistry problems through exposure to modern software and computational language

CO10: To qualify competitive exam for progression to higher studies in chemistry by studying the modern topics.

CSO	CO 1	CO 2	CO 3	CO 4	CO 5	CO 6	CO 7	CO 8	CC 9	CO 10
CC-1-1(Inorganic)	√			√	√					√
CC-1-1(Organic)	√		√	√			√		√	√
CC-1-2(Physical)	√	√	√	√	√	√				√
CC-1-2(Organic)	√		√	√			√		√	√
CC-2-3(Oraganic)	√		√	√			√		√	√
CC-2-4(Inorganic)	√			√	√					√
CC-3-5 (Physical)	√	√	√	√	√	√				√
CC-3-6(Inorganic)	√			√	√					√
CC-3-7(Organic)	√		√	√			√		√	√
CC-4-8(Organic)	√		√	√			√		√	√
CC-4-9(Physical)	√	√	√	√	√	√				√
CC-4-10(Inorganic)	√			√	√					√
CC-5-11(Physical)	√	√	√	√	√	√				√
CC-5-12(Organic)	√		√	√			√		√	√
CC-6-13(Inorganic)	√				√	√				√

Course	1	2	3	4	5	6	7	8	9	10
CC-6-14(Physical)	√	√	√	√	√					√
DSE A-1(Molecular modelling and drug design)	√	√	√	√		√			√	√
DSEA-2 (Applicaion of computer in chemistry)	√		√	√	√	√			√	√
DSE-A-3(Green chemistry and Chemistry of natural products)	√			√		√	√	√	√	
DSE-A-4(Analytical methods)	√	√	√		√	√				√
DSE-B-1(Inorganic materials of industrial importance)	√			√	√	√				√
DSE-B-2(Novel inorganic solids)	√			√	√	√				√
DSE-B-3(Polymer)	√			√	√	√				√
DSE-B-4(Dissertation)	√	√	√	√	√	√	√	√	√	√
SEC-A-1(Mathematics and statistics for chemists)	√		√	√	√	√			√	√
SEC -A-2(Analytical clinical biochemistry)	√		√			√	√			√
SEC-B-3(Pharmaceutical)	√		√			√	√			√
SEC-B-4 (Pesticide)	√		√			√	√			√