Program Outcome in B.Sc. (G) Chemistry

To impart knowledge on different topics of chemistry viz, inorganic, organic, physical and analytic of the level expected from a graduate in chemistry.

PO1: Develop the basic logic to think about practical problems.

PO2: Achieve the skill required succeed in chemical industry.

PO3: Exposure of a breadth of experimental technique using modern instrumentation.

PO4: Learn the laboratory skills and safety to transfer and interpret knowledge in the working environment.

PO5: Recognize and appreciate the connection of chemistry with branches of science like biological science.

PO6: Overview different properties of polymer.

PO7: This is a practical course aimed to impart a first exposure to the students on various chemicals.

Course Outcomes (COs)

Course: Inorganic Chemistry

CO1: Experimental practice of quantitative volumetric analysis.

CO2: Determining concentration or the mass of the minimum formula from titrated chemical materials.

CO3: To educate on advance topic of inorganic polymers, novel inorganic compounds.

CO4: Aims to train students on few chemical testing procedure.

Course: Physical Chemistry

CO5: State and apply the laws of thermodynamics perform calculation with real and ideal gases.

CO6: To provide advanced knowledge on electrochemistry.

CO7: To impart understanding on advanced topics of chemical equilibrium and thermodynamics.

CO8: Provide laboratory experience by performing experiments.

Course: Organic Chemistry

CO9: Students are expected to apply their knowledge to problem solve, deduce structure .Relationship between organic chemistry and other disciplines.

CO10: To impart knowledge on basic stereo chemical aspects.

CO11: To educate on organic synthesis methods.

Course: Analytical Chemistry

CO12: Performing risk assessment of chemical industry and chemical analytical activity .Familiar with calculations in analytical chemistry.

CO13: To provide knowledge on theory and application of different analytical techniques.

CO14: To educate students on application of NMR, ESR.

Course: Industrial Chemistry (DSE)

CO15: Necessary skills to be developed for chemical industry particularly in health, food, cosmetic sector.

CO16: Classify various insecticides.

CO17: Study nutritive aspect of food constituents.

CO18: Study manufacture of glass, soap, dye etc.

Course: Polymer Chemistry (DSE)

CO19: Indicate how the properties of polymeric materials can be exploited by a product designer.

CO20: To provide concept of molecular weight and distribution.

CO21: Behaviour of polymer solution at different concentration.

CO22: To provide concept of glass transition temperature.

Tagging COs with POs

Course Name and Code	PO / CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
Inorganic Chemistry	CO1	✔	✔	✔	✔			✔
Inorganic Chemistry	CO2	✔	✔	✔				✔
Inorganic Chemistry	CO3	✔						
Inorganic Chemistry	CO4	✔	✔	✔	✔	✔		✔
Physical Chemistry	CO5	✔		✔			✔	
Physical Chemistry	CO6		✔		✔			✔
Physical Chemistry	CO7	✔		✔			✔	
Physical Chemistry	CO8	✔	✔		✔	✔		✔
Organic Chemistry	CO9		✔	✔	✔		✔	✔
Organic Chemistry	CO10	✔	✔		✔			
Organic Chemistry	CO11	✔	✔	✔		✔		✔
Organic Chemistry	CO12	✔		✔	✔		✔	
Analytical Chemistry	CO13		✔	✔	✔			✔
Analytical Chemistry	CO14	✔		✔	✔	✔		
Industrial Chemistry	CO15	✔	✔		✔		✔	✔
Industrial Chemistry	CO16	✔	✔	✔		✔		
Industrial Chemistry	CO17		✔	✔	✔		✔	✔
Industrial Chemistry	CO18	✔	✔	✔	✔			
Polymer Chemistry	CO19		✔	✔		✔	✔	
Polymer Chemistry	CO20	✔		✔		✔	✔	✔
Polymer Chemistry	CO21		✔					