



Al-Balqa Applied University

Faculty of Science

Department of Chemistry

#	Program Learning Outcomes
PLO1	Comprehensive General Chemistry Knowledge: Demonstrate extensive knowledge of fundamental principles and theories in all major chemistry branches: Organic, Analytical, Inorganic, and Physical Chemistry
PLO2	Laboratory Safety and Methodology: Understand laboratory safety protocols, ensuring safe experimentation within established methodologies.
PLO3	Application of Chemical and Physical Processes: Apply qualitative and quantitative chemical and physical processes to solve problems effectively.
PLO4	Specialized Chemistry Proficiency: The ability to use and interpret data obtained from modern analytical and instrumental techniques based on the acquired expertise in all branches of chemistry (Organic, Inorganic, Analytical, and Physical Chemistry).
PLO5	Laboratory Proficiency and Analytical Skills: Attain strong laboratory skills, chemical handling, method validation and data analysis using modern analytical techniques and synthetic methods.
PLO6	Proficiency in Utilizing Modern Research Tools: The ability to utilize modern research tools, including web-based scientific search engines like SciFinder, and computer programs for accessing and evaluating scientific information, in addition to comprehending the fundamentals of scientific research methodologies.
PLO7	Acquiring communication skills and effectively conveying scientific information through clear and concise written reports and oral presentations.
PLO8	Proficiency in addressing real-world chemical challenges, critical thinking, emphasizing ethics, safety, integrity, lifelong learning for ongoing professional growth and ethical research conduct.