



**PP SAINS KIMIA
PROGRAMME EDUCATIONAL OBJECTIVES (PEO) &
PROGRAM LEARNING OUTCOME
B.A. Sc.(Hons.) (Chemistry)**

Programme Educational Objectives:

In line with the mission of the School of Chemical Sciences, Bachelor of Science (Honours) (Chemistry) programme offers high-quality science education with the aim to produce:

PEO 1: Chemists who are able to apply the knowledge and practical skills acquired to improve the practice of chemistry in the public and private sectors.

PEO 2: Chemists who can integrate ethical and professional values in their professional and social relationships.

PEO 3: Chemists who can take on the roles of leaders and team members in providing solutions to chemistry-related issues and problems through effective communications with industry and society.

PEO 4: Chemists who are able to proactively acquire new knowledge to improve their skills in career advancement and demonstrate innovative resource and information management.

Program Learning Outcomes: Upon completion of this programme, students will be able to:

PLO 1	Knowledge (of the discipline)	Apply fundamental knowledge of chemistry to chemistry-related practices.
PLO 2	Practical Skills (of the discipline)	Perform safe handling of chemicals and proficient manipulation of laboratory apparatus and analytical instruments.
PLO 3	Cognitive Skills	Demonstrate critical thinking and provide practical solutions to chemistry-related issues by employing appropriate and relevant chemistry knowledge and skills.
PLO 4	Communication Skills	Demonstrate effective communication.
PLO 5	Interpersonal Skills	Lead and collaborate with diverse team members and demonstrate social responsibility for the well-being of society.
PLO 6	Ethics and Professionalism	Balance and uphold positive values, ethics and accountability in societal and professional engagement.
PLO 7	Personal Skills	Manage information and seek new knowledge and skills independently.
PLO 8	Entrepreneurial Skills	Display relevant and appropriate managerial and entrepreneurial skills.
PLO 9	Leadership, Autonomy and Responsibility	Demonstrate the ability to work effectively as a leader
PLO 10	Digital Skills	Demonstrate the ability to use digital effectively
PLO 11	Numeracy Skills	Demonstrate the ability to use numerical effectively