



**PUSAT PENGAJIAN SAINS KIMIA
PROGRAMME EDUCATION OBJECTIVES (PEOs) &
PROGRAM LEARNING OUTCOMES (PLOs)**

**Bachelor of Applied Science
in Analytical Chemistry with Honours**

Programme Educational Objectives (PEOs):

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

PEO 1

Analytical chemists who are able to apply the basic principles and practical skills of analytical chemistry based on conventional and modern chemical techniques.

PEO 2

Ethical, pure-hearted, resilient analytical chemists who voluntarily involve in the community.

PEO 3

Analytical chemists who demonstrate leadership skills and communicates effectively in a team to solve chemistry-related problems.

PEO 4

Analytical chemists who are competent in digital and numerical skills, and able to respond consistently to the latest analytical chemistry techniques and demonstrate management and entrepreneurial skills.

Programme Learning Outcomes (PLOs): Upon completion of this programme, students will be able to:

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