



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

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

Programme Educational Objectives (PEOs):

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

PEO 1

Industrial chemists who apply technical knowledge and skills in line with current industry needs and developments.

PEO 2

Industrial chemists who are ethical in their behaviour and are responsible in improving the socio-economic well-being of society.

PEO 3

Industrial chemists who can act as leaders or team members in providing scientific solutions to problems faced by society and industry through effective communication.

PEO 4

Industrial chemists who are constantly improving and adapting to current technology, mastering digital and numerical skills, and demonstrating effective information resource management.

Programme Learning Outcomes (PLOs): 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	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.