

**PEMETAAN MATLAMAT PENDIDIKAN INSTITUSI VS. OBJEKTIF PENDIDIKAN PROGRAM (PEO)  
&  
MATLAMAT PENDIDIKAN INSTITUSI VS. HASIL PEMBELAJARAN PROGRAM (PLO)**

**PROGRAM: SARJANA MUDA SAINS GUNAAN (KEPUJIAN) (KIMIA INDUSTRI)**

**PTJ: PP SAINS KIMIA**

**a) Pemetaan PEO - IEG**

PEO	PEO statement	THINKER (T)	BALANCED (B)	ENTREPRENEURIAL (E)	ARTICULATE (A)	HOLISTIC (H)
	To produce:	IEG1	IEG2	IEG3	IEG4	IEG5
PEO1	Industrial chemists who apply technical knowledge and skills in line with current industry needs and developments.	/	/			
PEO2	Industrial chemists who are ethical in their behavior and responsible in improving the socio-economic well-being of society.		/		/	
PEO3	Industrial chemists who can act as leaders or team members in providing scientific solutions to problems faced by society and industry through effective communication.	/	/		/	/
PEO4	Industrial chemists who are constantly improving and adapting to current technology and demonstrating effective information resource management.	/	/	/		/

**b) Pemetaan PLO - IEG**

<b>PLO</b>	<b>MQF 2.0 DOMAIN</b>	<b>PROGRAM LEARNING OUTCOMES, PLO</b>	<b>IEG ELEMENT</b>	
PLO1	Knowledge and understanding	Apply fundamental knowledge of chemistry to chemistry-related practices.	IEG 1	THINKER
PLO2	Practical Skills	Handle chemicals safely and manipulate laboratory apparatus and analytical equipment efficiently.	IEG 1 IEG 2	THINKER BALANCED
PLO3	Cognitive Skills	Demonstrate critical thinking in solving practical problems related to chemistry using appropriate and relevant chemical knowledge and skills.	IEG 1 IEG 2	THINKER BALANCED
PLO4	Communication Skills	Demonstrate effective communication.	IEG 4	ARTICULATE
PLO5	Interpersonal Skills	Demonstrate social skills, teamwork and responsibility, and be alert to community challenges.	IEG 4	ARTICULATE
PLO6	Ethics and Professionalism	Balancing and displaying positive, ethical values and responsibilities in the profession and engagement with society.	IEG 2	BALANCED
PLO7	Personal Skills	Manage information and seek new knowledge and skills to improve practice in the research laboratory. Apply lifelong learning skills and principles in academic and career.	IEG 5	HOLISTIC
PLO8	Entrepreneurial Skills	Adopt a quality management system and demonstrate appropriate entrepreneurial skills	IEG 3	ENTREPRENEURIAL
PLO9	Leadership, Autonomy and Responsibility	Demonstrate leadership qualities effectively.	IEG 5	HOLISTIC
PLO10	Digital Skills	Demonstrates capability in digital technology	IEG 2	BALANCED
PLO11	Numeracy Skills	Show numerical ability in solving chemistry related problems.	IEG 1	THINKER