

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

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

**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	Chemists who are able to apply the knowledge and practical skills acquired to improve the practice of chemistry in the public and private sectors.	/	/			
PEO2	Chemists who can integrate ethical and professional values in their professional and social relationships.		/		/	
PEO3	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.	/	/		/	/
PEO4	Chemists who are able to proactively acquire new knowledge to improve their skills in career advancement and demonstrate innovative resource and information 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	Perform safe handling of chemicals and proficient manipulation of laboratory apparatus and analytical instruments.	IEG 1 IEG 2	THINKER BALANCED
PLO3	Cognitive Skills	Demonstrate critical thinking and provide practical solutions to chemistry-related issues by employing appropriate and relevant chemistry knowledge and skills.	IEG 1 IEG 2	THINKER BALANCED
PLO4	Communication Skills	Demonstrate effective communication.	IEG 4	ARTICULATE
PLO5	Interpersonal Skills	Lead and collaborate with diverse team members and demonstrate social responsibility for the well-being of society.	IEG 4	ARTICULATE
PLO6	Ethics and Professionalism	Balance and uphold positive values, ethics and accountability in societal and professional engagement.	IEG 2	BALANCED
PLO7	Personal Skills	Manage information and seek new knowledge and skills independently.	IEG 5	HOLISTIC
PLO8	Entrepreneurial Skills	Display relevant and appropriate managerial and entrepreneurial skills.	IEG 3	ENTREPRENEURIAL
PLO9	Leadership, Autonomy and Responsibility	Demonstrate the ability to work effectively as a leader.	IEG 5	HOLISTIC
PLO10	Digital Skills	Demonstrate the ability to use digital effectively.	IEG 2	BALANCED
PLO11	Numeracy Skills	Demonstrate the ability to use numerical effectively.	IEG 1	THINKER