

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

PROGRAM: SARJANA MUDA SAINS GUNAAN DALAM KIMIA ANALISIS DENGAN KEPUJIAN

PTJ: PP SAINS KIMIA

a) Pemetaan PEO - IEG

PEO	PEO statement	PEMIKIR <i>THINKER</i> (T) IEG1	SEIMBANG <i>BALANCED</i> (B) IEG2	KEUSAHAWANAN <i>ENTREPRENEURIAL</i> (E) IEG3	ARTIKULASI <i>ARTICULATE</i> (A) IEG4	HOLISTIK <i>HOLISTIC</i> (H) IEG5
	To produce:	IEG1	IEG2	IEG3	IEG4	IEG5
PEO1	Analytical chemists who are able to apply the basic principles and practical skills of analytical chemistry based on conventional and modern chemical techniques	/	/			
PEO2	Ethical, pure-hearted, resilient analytical chemists who voluntarily involve in the community		/		/	
PEO3	Analytical chemists who demonstrate leadership skills and communicate effectively in a team to solve chemistry-related problems	/	/		/	/
PEO4	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.	/	/	/		/

b) Pemetaan PLO - IEG

PLO	MQF 2.0 DOMAIN	PROGRAM LEARNING OUTCOMES, PLO	IEG ELEMENT	
PLO 1	Knowledge and understanding	Apply fundamental knowledge of chemistry to chemistry-related practices.	IEG 1	THINKER
PLO 2	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
PLO 3	Practical Skills	Perform safe handling of chemicals and proficient manipulation of laboratory apparatus and analytical instruments.	IEG 1 IEG 2	THINKER BALANCED
PLO 4	Interpersonal Skills	Lead and collaborate with diverse team members and demonstrate social responsibility for the well-being of society.	IEG 4	ARTICULATE
PLO 5	Communication Skills	Demonstrate effective communication skills.	IEG 4	ARTICULATE
PLO 6	Digital Skills	Demonstrate effective digital skills.	IEG 2	BALANCED
PLO 7	Numeracy Skills	Demonstrate effective numerical skills.	IEG 1	THINKER
PLO 8	Leadership, Autonomy and Responsibility	Demonstrate the ability to work autonomously, and show leadership and professionalism in managing different responsibilities.	IEG 5	HOLISTIC
PLO 9	Personal Skills	Manage information and seek new knowledge and skills independently.	IEG 5	HOLISTIC
PLO 10	Entrepreneurial Skills	Display relevant and appropriate managerial and entrepreneurial skills.	IEG 3	ENTREPRENEURIAL
PLO 11	Ethics and Professionalism	Balance and uphold positive values, ethics and accountability in societal and professional engagement.	IEG 2	BALANCED