

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

PROGRAM: SARJANA MUDA SAINS DALAM KIMIA DENGAN KEPUJIAN

PTJ: PP SAINS KIMIA

a) Pemetaan PEO - IEG

PEO	PEO statement	PEMIKIR <i>THINKER</i> (T)	SEIMBANG <i>BALANCED</i> (B)	KEUSAHAWANAN <i>ENTREPRENEURIA</i> L (E)	ARTIKULASI <i>ARTICULATE</i> (A)	HOLISTIK <i>HOLISTIC</i> (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 competent in digital and numerical skills and able to proactively acquire new knowledge to improve their skills in career advancement and demonstrate innovative resource and information management.	/	/	/		/

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