

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

PROGRAM: *Sarjana Sains Dalam Peralatan Kimia (Master of Science in Chemical Instrumentation)*

PTJ: PP Sains Kimia

a. PEO – IEG mapping

PEO	PEO statement	THINKER (T)	BALANCED (B)	ENTREPRENEURIAL (E)	ARTICULATE (A)	HOLISTIC (H)
	To produce chemists and professionals that are	IEG1	IEG2	IEG3	IEG4	IEG5
PEO1	Knowledgeable and scientifically skilled in dealing with chemistry-related issues.	/	/			
PEO2	Trustworthy in line with international professional codes and ethics.		/			
PEO3	Demonstrate quality leadership, communication and interaction skills in professional careers.				/	/
PEO4	Proactive, innovative and committed in management and lifelong learning for sustainable career development.	/	/			/

b. PLO – IEG Mapping

PLO	MQF 2.0 DOMAIN	PROGRAM LEARNING OUTCOMES, PLO	IEG ELEMENT		
			IEG	THINKER	TECHNICAL
PLO1	Knowledge and understanding	Demonstrate mastery of knowledge of chemical instrumentations.	IEG 1	THINKER	T
PLO2	Practical Skills	Apply practical skills and chemical instrumentations efficiently.	IEG 1 IEG 2	THINKER BALANCED	T, B
PLO3	Cognitive Skills	Demonstrate scientific and critical thinking in solving chemistry related problems.	IEG 1 IEG 2	THINKER BALANCED	T, B
PLO4	Communication Skills	Demonstrate effective communication skills to convey information and knowledge in the field of chemistry.	IEG 4	ARTICULATE	A
PLO5	Interpersonal Skills	Practice teamwork responsibly for public welfare.	IEG 4	ARTICULATE	A
PLO6	Ethics and Professionalism	Practice positive values, ethics and accountability in community and professional engagement.	IEG 2	BALANCED	B
PLO7	Personal Skills	Integrate information and knowledge for lifelong learning.	IEG 5	HOLISTIC	H
PLO8	Entrepreneurial Skills	Not applicable.	-	-	-
PLO9	Leadership, Autonomy and Responsibility	Demonstrate leadership abilities in order to foster strong collaboration.	IEG 5	HOLISTIC	H
PLO10	Digital Skills	Demonstrate the ability to use digital technology and software in chemistry fields.	IEG 2	BALANCED	B
PLO11	Numeracy Skills	Apply numeracy skills to analyse chemistry related data.	IEG 1	THINKER	T