

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

**PROGRAM: SARJANA MUDA DALAM KIMIA INDUSTRI 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>ENTREPRENEURIAL</i> (E)	ARTIKULASI <i>ARTICULATE</i> (A)	HOLISTIK <i>HOLISTIC</i> (H)
	<b>To produce:</b>	<b>IEG1</b>	<b>IEG2</b>	<b>IEG3</b>	<b>IEG4</b>	<b>IEG5</b>
<b>PEO1</b>	Industrial chemists who apply technical knowledge and skills in line with current industry needs and developments.	/	/			
<b>PEO2</b>	Industrial chemists who are ethical in their behavior and responsible in improving the socio-economic well-being of society.		/		/	
<b>PEO3</b>	Industrial chemists who can act as leaders or team members in providing scientific solutions to problems faced by society and industry through effective communication.	/	/		/	/
<b>PEO4</b>	Industrial chemists who are constantly improving and adapting to current technology, mastering digital and numerical skills, and demonstrating effective information resource management.	/	/	/		/

**b) Pemetaan PLO - IEG**

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