

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

PROGRAM: SARJANA MUDA SAINS GUNAAN 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) |
|-------------|---|----------------------------------|------------------------------------|---|--|------------------------------------|
| | To produce: | IEG1 | IEG2 | IEG3 | IEG4 | IEG5 |
| PEO1 | Industrial chemists who apply technical knowledge and skills in line with current industry needs and developments. | / | / | | | |
| PEO2 | Industrial chemists who are ethical in their behavior and responsible in improving the socio-economic well-being of society. | | / | | / | |
| PEO3 | Industrial chemists who can act as leaders or team members in providing scientific solutions to problems faced by society and industry through effective communication. | / | / | | / | / |
| PEO4 | 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 | |
|---------------|---|---|----------------|---------------------|
| 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 |