

## Program Learning Outcomes - PLOs

Upon completion of the program, learners will possess the following knowledge, skills, and professional competencies:

| Symbol   | Program Learning Outcomes (PLOs)                                                                                      | Bachelor's Level | Engineer's Level |
|----------|-----------------------------------------------------------------------------------------------------------------------|------------------|------------------|
| <b>a</b> | <b>Knowledge</b>                                                                                                      |                  |                  |
| PLO1     | Analyze fundamental knowledge of science and society                                                                  | C4               | C4               |
| PLO2     | Analyze major foundation and specialized knowledge                                                                    | C4               |                  |
|          | Synthesize major foundation and specialized knowledge                                                                 |                  | C5               |
| <b>b</b> | <b>Skills and personal qualities</b>                                                                                  |                  |                  |
| PLO3     | Proficiently perform professional skills, including system thinking, analysis, and problem-solving skills             | P3               | P4               |
| PLO4     | Proficiently perform skills in self-study, research, and knowledge discovery                                          | P4               | P4               |
| PLO5     | Meet requirements of professional ethics, labor discipline, and professional behavior in professional activities      | A4               | A4               |
| <b>c</b> | <b>Interpersonal skills</b>                                                                                           |                  |                  |
| PLO6     | Proficiently perform skills in cooperation, organization, and teamwork                                                | P4               | P4               |
| PLO7     | Proficiently perform communication skills (oral and written), including foreign language skills for professional work | P4               | P4               |

| d    | Professional practice capacity (autonomy capacity).                                                                                                                                                      |    |    |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|
| PLO8 | Explain the social and enterprise context, self-orient, and apply knowledge to provide professional conclusions, ideas, and solutions that meet the needs of enterprises and society or entrepreneurship | R3 | R3 |
| PLO9 | Masterly perform goal setting, planning, managing, and coordinating resources to achieve objectives in scientific research activities, quality management, and food safety                               | P3 |    |
|      | Proficiently perform goal setting, planning, managing, and coordinating resources to achieve objectives in scientific research activities, quality management, and food safety                           |    | P4 |

Notes: Proficiency Levels in this table are measured according to the following scales: **Knowledge** (Bloom's Taxonomy- Cognitive domain); **Behavioral Skills** (Bloom's Taxonomy - Psychomotor domain); **Affective Skills & Attitudes** (Bloom's Taxonomy - Affective domain) and **Proficiency Level** (Crawley-Proficiency Rating scale)