

Program Learning Outcomes - PLOs

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

Symbol	Program Learning Outcomes	Bachelor's Proficiency Level	Engineer's Proficiency Level
a	Knowledge		
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	Skills and personal qualities		
PLO3	Proficiently demonstrate professional skills, including systems thinking, analytical, and problem-solving skills.	P3	
	Demonstrate mastery of professional skills, including systems thinking, analysis, and problem-solving.		P4
PLO4	Proficiently perform skills in self-study, research, and knowledge discovery.	P4	P4
PLO5	Demonstrate strong professional ethics, professional behavior, and workplace discipline.	A4	A4
c	Interpersonal skills		
PLO6	Proficiently perform skills in cooperation, organization, and teamwork.	P4	P4
PLO7	Demonstrate mastery of scientific communication through effective speaking, writing, presentation, and foreign language proficiency.	P4	P4

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d	Professional practice capacity (autonomy capacity).		
PLO8	Identify the practical contexts of society and enterprises to self-orient and select activities in scientific research, product development, and quality assurance that meet the demands of businesses and society, or to pursue entrepreneurship.	R3	R3
PLO9	Master the activities of goal setting, planning, and resource management and coordination to achieve objectives in activities or projects involving scientific research, product development, quality management, and food processing.	P3	
	Demonstrate mastery in setting objectives, planning, and managing and coordinating resources to achieve goals within activities or projects related to scientific research, product development, quality management, and food processing.		P4

Note: Proficiency Levels (PL) 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 Rating Scale (Crawley scale).