Student Outcomes

SO 1	**Problem Analysis**	
	Ability to apply their knowledge of mathematics, science, engineering, and technology, along with analytical tools, to solve broadly-defined engineering problems within their discipline and to enhance industrial technology processes creatively and innovatively that is within industry standards	
	KPI 1	Determine the present technology's issues and limitations
	KPI 2	Analyze the situation and come up with a solution using scientific and mathematical principles
	KPI 3	Use logical, mathematical, and technical principles in formulating solutions
SO 2	**Design and Development of Solutions**	
	Ability to design and implement systems, components, and processes to address broadly-defined engineering problems within the discipline, while demonstrating proficiency, adaptability, and adherence to global standards in meeting industry-specific requirements	
	KPI 1	Design systems, components or processes that will achieve program objectives
	KPI 2	Formulate solutions through various technology-based outputs that will address the needs of the community and industry
SO 3	**Communication**	
	Ability to demonstrate proficiency in written, oral, and graphical communication in broadly-defined technical and non-technical environments, effectively utilizing relevant technical literature and culturally sensitive language while ensuring clarity and persuasion in conveying information, including the ability to understand and provide clear instructions, maintain high comprehension levels, deliver compelling presentations, compose effective documents, and articulate technological innovation outputs to diverse clientele	
	KPI 1	Convey ideas through written, oral, and graphical communication in well-defined technical and non-technical environments;
	KPI 2	Exhibit oral and visual communication skills suited to the industrial technology profession
	KPI 3	Show proficiency in writing research-based papers, stylistic essays and technical reports
SO 4	**Investigation**	
	Ability to perform standard tests, measurements and experiments, and subsequently analyze and interpret the results to enhance processes, while also applying contemporary techniques, resources, and cutting-edge engineering technology tools to address current industry requirements and to foster entrepreneurial growth, all while upholding the safety and health standards of business and industry.	
	KPI 1	Examine a series of experimental results
	KPI 2	Conduct experiments to evaluate the interpretation of theories

	KPI 3	Design the solution to mitigate the identified gaps
SO 5	**Leadership and Teamwork**	
	Ability to function effectively both as team members and leaders in technical teams, while also developing and demonstrating leadership and management competencies within team-based environments, making informed decisions, motivating teams, delegating responsibilities, and inspiring positive organizational change through the practice of their profession with integrity and accountability.	
	KPI 1	Establish team rapport, priorities and action plans to meet the goal
	KPI 2	Participate actively in team activities as a member(s) in meetings and help to reinforce concepts
	KPI 3	Show appreciation for the efforts exerted by each member
SO 6	**Ethics and Professionalism**	
	Ability to adhere to the moral, ethical and professional responsibility of an engineering technologist in balancing the broader public interest while upholding the ethical norms and safety standards within the industrial technology profession.	
	KPI 1	Demonstrate professional and ethical values in the workplace
	KPI 2	Examine the condition that necessitates a decision based on moral, legal and technical aspects
SO 7	**Lifelong Learning**	
	Ability to demonstrate enthusiasm and commitment to lifelong learning, nurturing ongoing personal and professional development, and driving positive transformations within the broadly-defined engineering technology field for entrepreneurial and industrial development.	
	KPI 1	Promote lifelong learning programs in order to progress and grow one's career
SO 8	**Social and National Responsibility**	
	Apply acquired engineering technology knowledge and skills in addressing community problems that contribute to national development.	
	KPI 1	Be updated with the current national and global issues, technologies and problems in the technological and non-technical space concerning one's profession
	KPI 2	Be abreast with the recent trends in the industry