

Program Learning Outcomes –Bachelor’s Program (NCAAA)

SAQF Learning Domains and Program Learning Outcomes (Bachelor’s)	
K	Knowledge
K1	To state the concepts, the theories and the principles of mathematics, science and engineering fundamentals in the field of mechanical engineering.
K2	To relate societal, health, safety, legal, management, sustainability and cultural issues and the consequent responsibility relevant to mechanical engineering practices.
S	Skills
S1	To apply knowledge of mathematics, science and mechanical engineering.
S2	To design and conduct experiments, as well as to analyze and interpret data.
S3	To design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
S4	To identify, formulate, and solve engineering problems.
S5	To understand the impact of engineering solutions in a global, economic, environmental, and societal context.
S6	To use the techniques, skills, and modern engineering tools necessary for engineering practice.
S7	An ability to communicate effectively (written).
S8	An ability to communicate effectively (oral).
V	Values
V1	A recognition of the need for, and an ability to engage in life-long learning.
V2	An ability to function on multidisciplinary teams.
V3	An understanding of professional and ethical responsibility.
V4	A knowledge of contemporary issues.