

Bachelor of Science in Civil Engineering

Program Educational Objectives

The graduates of Bachelor of Science in Civil Engineering within three to five years after graduation shall:

1. successfully participate as partners in nation building in engineering projects involving structural, geotechnical, water resources, transportation and construction management; and
2. adhere to professional, moral and ethical standards in the practice of civil engineering.

Student Outcomes

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science and mathematics.
2. An ability to apply engineering design to produce solutions that meet specific needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create collaborative and inclusive environment, establish goals, plan tasks and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.