Bachelor of Science in Civil Engineering (BSCE)

Program Educational Objectives

The civil engineering program shall produce professionals who:

1. Can practice his/her profession in his capacity as a registered civil engineer.

2. Can promote advocacies and other endeavors supported by his/her acquired civil engineering education.

3. Can enhance his/her knowledge and skills via professional advancement in a specialized field of expertise.

4. Can exhibit professional ethics and attitude in engineering practice.

5. Can demonstrate substantial involvement in projects related to key areas in structural engineering, transportation engineering, water resources engineering, construction management engineering, geotechnical engineering, environmental and energy engineering.

Program Outcomes

By the time of graduation, the students of the program shall have the ability to:

a. Apply knowledge of mathematics and science to solve civil engineering problems.

b. Design and conduct experiments, as well as to analyze and interpret data.

c. Design a system, component, or process to meet desired needs within realistic constraints, in accordance with standards.

d. Function in multidisciplinary and multi-cultural teams.

e. Identify, formulate and solve civil engineering problems.

f. Understand professional and ethical responsibility.

g. Communicate effectively on civil engineering activities with the engineering community and with society at large.

h. Understand the impact of civil engineering solutions in a global, economic, environmental and societal context.

i. Recognize the need for, and engage in life-long learning.

j. Know contemporary issues.

k. Use techniques, skills, and modern engineering tools necessary for civil engineering practice.
I. Know and understand engineering and management principles as member and leader of a team, and to manage projects in a multidisciplinary environment.

m. Understand at least one specialized field of civil engineering practice.