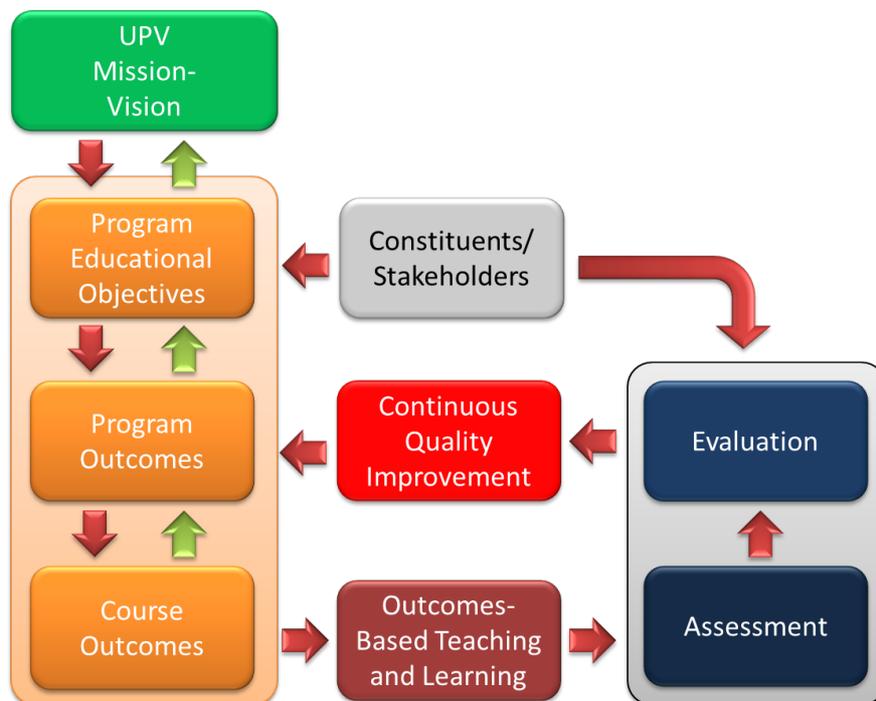


I. UPV ChE PROGRAM OBE FRAMEWORK

The OBE framework of the Chemical Engineering Program includes the following components:

1. UPV Mission and Vision
2. Program Educational Objectives (PEOs)
3. Program Outcomes (POs)
4. Curriculum Mapping in correspondence with POs
5. Outcomes-Based Teaching and Learning (OBTL) Delivery Process
6. Program Assessment and Evaluation Process
7. Continuing Quality Improvement Program



The OBE Framework of SOTECH's ChE Program is anchored on the mandate of UPV as the national center of excellence for fisheries and aquatic sciences. As such, the program aims to contribute to the development of the Visayas region through relevant instructional, research and extension programs in chemical engineering.

UPV's mandate, along with inputs on the needs of the stakeholders of the program (students, faculty, alumni, professional organization, industry), serve as the bases in formulating the Program Educational Objectives (PEOs) that graduates are expected to achieve in their professional and career practice three to five years after graduation, as well as the Program Outcomes (POs) that the students are expected to know and be able to do by the time of graduation.

Courses are designed and implemented with emphasis on student-centered learning, and assessment and evaluation on the attainment of institutional, program, and course outcomes are done periodically, with inputs from the external stakeholders on decisions and actions regarding program continuous quality improvement.

II. UPV ChE PROGRAM EDUCATIONAL OBJECTIVES

Within three to five years after graduation, graduates of the program are:

1. Globally-competent professionals, demonstrating mastery of chemical engineering principles in all career endeavors, and engaging in continuous professional growth;
2. Innovators and researchers in their chosen field of specialization, adhering to high professional and ethical standards as they demonstrate ability to address global, economic, environmental, or societal challenges;
3. Leaders in their respective workplace with the capability to effectively manage or work in a team, and responsive citizens with strong commitment to serve the community and country.

III. UPV ChE PROGRAM OUTCOMES

Upon completion of the five-year Bachelor of Science in Chemical Engineering program, the student shall have the ability to:

- a. apply knowledge of mathematics and science to solve complex chemical 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 complex chemical engineering problems;
- f. understand professional and ethical responsibility;
- g. communicate effectively complex chemical engineering activities with the engineering community and with society at large;
- h. understand the impact of chemical 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 chemical engineering practice;
- l. know and understand engineering and management principles as a member and leader of a team, and to manage projects in a multidisciplinary environment.