

## B. Mission, Objectives, and Program Learning Outcomes

### 1. Program Mission:

Qualifying distinguished human cadres with high-quality education in the field of Chemistry and environmental chemistry to strengthen the goals of sustainable development and meet the need of community and scientific research.

### 2. Program Goals:

- Keeping up with developments in the scientific field, especially in the field of chemistry, including remarkable developments and changes in all fields.
- Aligning recently emerging skills with new requirements in the labor market.
- satisfying the region's needs for distinguished graduates in the field of chemistry to achieve environmental sustainability and optimal exploitation of natural resources.
- Keeping up with the trends of the national vision and its justification to keep pace with global trends in the field of specialization "Chemistry".

### 3. Program Learning Outcomes\*

#### Knowledge and Understanding

K1	Explain the basic principles, concepts, and fundamental theories of the different branches of chemistry.
K2	Illustrate different spectroscopic and separation techniques of different compounds as well as the basic theories and principles of advanced techniques of all chemistry branches
K3	Inferring new areas of research in both chemistry and allied fields of science and technology

#### Skills

S1	Apply theories, principles, and concepts of chemical analysis to detect and estimate organic, inorganic and organometallic compounds.
S2	implement practical tasks using advanced and specialized techniques, tools, instruments, and/or materials to deal with practical activities in the field of chemistry
S3	Communicate in various forms to disseminate knowledge, skills related to chemistry to specialist and non-specialist audiences.
S4	apply digital technological and applications to process and analyze a variety of data and information related to chemistry.

#### Values, Autonomy, and Responsibility

V1	Adhere to the values and code of ethics associated with professional practices in the field of chemistry.
V2	Effectively manage specialized tasks and activities in field of chemistry practice with autonomy under indirect supervision.
V3	Collaborate and lead teamwork to effectively perform a range of tasks with responsibility to achieve common goals in field of chemistry

\* Add a table for each track or exit Point (if any)

