

Chemistry Technology

Mission

The School of Chemistry is a center for training professionals with high academic and research level in science and technology that provides chemical analysis services in soil, food, water and other agricultural and industrial products to the regional and national community and in certified laboratories, including providing professional advice.

Vision

Create own multidisciplinary research groups that enable undergraduate and postgraduate students to train with high quality and as leaders who may be involved in regional, national and international environments and that seek benefits that contribute to the country's economy, in improving people's lives and in the creation of industry, while having an awareness of environmental preservation.

Objectives

General Objective

Educate a high level professional who is able to analyze, implement, transfer, optimize and evaluate quality control methods used in the productive and service sectors related to the chemical industry; while being actively engaged in the production process and the creation, transfer and adaptation of technology, in order to perform properly in the chemical industry and assist in its development.

Specific Objectives

1. Train people with the following characteristics:

With enough scientific and theoretical bases that can be used in the different forms of the Chemical Industry.

Trained to perform technical and administrative work in Industrial Quality Control.

With the capacity to take the lead and participate in the planning and design of chemical laboratories.

That can implement, coordinate, control and monitor planned work processes and operations of the Chemical Industry.

1. Contribute to the overall student training to educate ethical professionals that are aware of their responsibilities to society.
2. Provide enough research and extension components to develop specific

interdisciplinary projects that solve technological problems of the environment, contributing to the recognition of the Faculty of Technology as a center of training and technological innovation.

Professional Profile

Understand the Professional Profile as the knowledge acquired by the Chemical Technologist of the Universidad Tecnológica de Pereira that enables him/her to perform all activities outlined in the Occupational Profile.

The Chemical Technologist of the Universidad Tecnológica de Pereira requires the following sets of knowledge, skills and abilities to achieve the professional identity that the program and the Occupational Profile indicate.

Knowledge

Scientific Basis:

Provide a set of knowledge on Basic Science to provide basic knowledge to start the student in understanding the phenomena, principles, laws and methods of science to help him/her manage, test and apply in the field of Specific Technologies.

Specific Technology Training:

Provides a set of knowledge, abilities and skills applied to problem solving that give identity to the Chemical Technologist.

Social and Humanistic Training:

Contributes to the overall development of man considered as a subject of knowledge, culture and consciousness as a social being.

Strengths and Abilities

- Mental abilities such as reasoning, analysis and synthesis.
- Solving problems by applying knowledge to practical situations.
- Skill in the use of appropriate tools and equipment for the analysis.
- Know and apply national and international standards of analysis for quality control.
- Understand and become familiar with industrial facilities for production processes in the chemical industry.

Learn the basics of laboratory management.

Identify the best methods of analysis.

Skills

- Synthesis: to extract the useful and beneficial.
- Communication: To communicate and accept suggestions, orders and transmit knowledge.
- Execution: Numeric, abstract and spatial.

Fuente: <http://www2.utp.edu.co/english/academic-programs/197/chemistry-technology>

