

Biochemistry

Biochemist – 6 years

Objective

To train professionals of a high scientific and technical level, who will be able to carry out research, experiments, tests and analyses on the chemical composition, functions and processes of living organisms, so as to increase the knowledge in that sphere, as well as to be applied in the industry, medicine and public health.

Contents

Some of the biochemical phenomena which this course of studies is concerned with are: the chemical composition of living organisms, the mechanisms of their vital functions, the chemical action that are produced on them by food and medicine, the chemical aspects of the antibodies formation in blood, or the growth and ageing processes.

The course of studies has the following orientations: Vegetal and Ground Biochemistry; Microbiology and Immunobiology ; Basic Biochemistry, Biotechnology; Clinic Biochemistry; Food Science and Nutrition.

Besides, students have to do their professional practices in hospitals.

Job opportunities

Graduates can work in the official sphere (hospitals, public health organisms) or in the private sector (laboratories, industries). The biochemical phenomena research and analysis and the invention of new procedures for food and drinks conservation, the production of serum and vaccines or the purification of water, the legal toxicology and chemistry, the detection and control of environmental pollution, the biotechnology, the diagnosis and follow up of patients, and the genetic tests, among others, make up their natural field of action.

Biochemists are professionals that work in health teams, contributing to the prevention, diagnosis and treatment of illnesses in human beings. They are also responsible for running the technical direction of biochemical laboratories in any of their specialties.