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University of Tlemcen

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Program Overview

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The **Doctor of Pharmacy** program in Algeria is taught over six years and is divided into:

- Preclinical Phase (Years 1 and 2): Fundamental courses in biology, chemistry, biostatistics, physiology, and anatomy.
- Clinical and Practical Phase (Years 3, 4, and 5): Specialized courses in pharmacology, galenic pharmacy, pharmacognosy, medical biology, toxicology, and clinical and industrial pharmacy.

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 Admission Criteria Admission to the Doctor of Pharmacy program is based on the baccalaureate score (Bac). Students from the Science or Mathematics streams are eligible to apply. A minimum average of 15/20 is generally required, but the final cutoff varies each year depending on the number of available seats. Selection Process Merit-Based Selection: priority is given to students with the highest Bac scores. The final admission threshold is based on the demand and university capacity. 																
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Chemical Thermodynamics: Understanding the laws of thermodynamics, chemical equilibria, and energy exchange phenomena in chemical reactions.

Organic Chemistry: Analysis of carbon-based molecules and organic reactions used in the synthesis of drugs and active ingredients.

Spectral and Analytical Methods: Use of analytical techniques (UV-Visible spectroscopy, IR, NMR, chromatography) for the identification and quantification of pharmaceutical compounds.

Pharmaceutical Physics: This course is essential for understanding the physical and biophysical properties of drugs and their interaction with the human body. Solubility, diffusion, and dissolution of active substances in the body. Rheology and fluid properties, essential for drug formulation.

Description and Identification of Plants – Phytochemical Study : The study of plants is fundamental in pharmacy, particularly in pharmacognosy and the search for natural active ingredients.

Cell Biology and Genetics: Cell structure and organization. Cell division (mitosis and meiosis). Molecular genetics, biotechnology, and gene therapies.

Human Anatomy: Study of anatomical terminology, tissue and cellular structures, and the organization of different organs.

Physiology and Pathophysiology: These courses provide an understanding of the normal functioning of the human body and the pathological changes that lead to disease.

Advanced Topics

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As they progress through the Doctor of Pharmacy program, students complete advanced courses and specialized training to develop their expertise in pharmaceutical sciences.

1. Pharmacology: Mechanisms of drug action at the molecular and cellular levels.

Pharmacokinetics (ADME) and pharmacodynamics. Drug interactions and adverse drug reactions.

2. Clinical Pharmacy: Rational use of medications and pharmaceutical care.

 Industrial Pharmacy and Pharmaceutical Technology: Drug formulation. Nanotechnology. Biopharmaceuticals. Pharmaceutical quality control and Good Manufacturing Practices (GMP). Regulatory affairs and drug registration.

4. Toxicology: Study of toxic substances (industrial, environmental, and medicinal). Toxicokinetics and antidote treatment. Forensic toxicology.

 Medical Biology: Clinical biochemistry, hemobiology, immunology, parasitology, and microbiology. Molecular diagnostics (PCR, ELISA, sequencing techniques).

Hydrology and bromatology: Study of water quality and analysis of various contaminants. Study of food, its composition, nutritional value, and safety. Study of food safety standards.

Tuition Fees

Other Fees

Teaching Language

Frensh and English

Full Curriculum

Choisir un fichier