



MINISTRY OF HEALTH OF UKRAINE
NATIONAL UNIVERSITY OF PHARMACY
DEPARTMENT OF MEDICINAL CHEMISTRY



Toxicological Chemistry

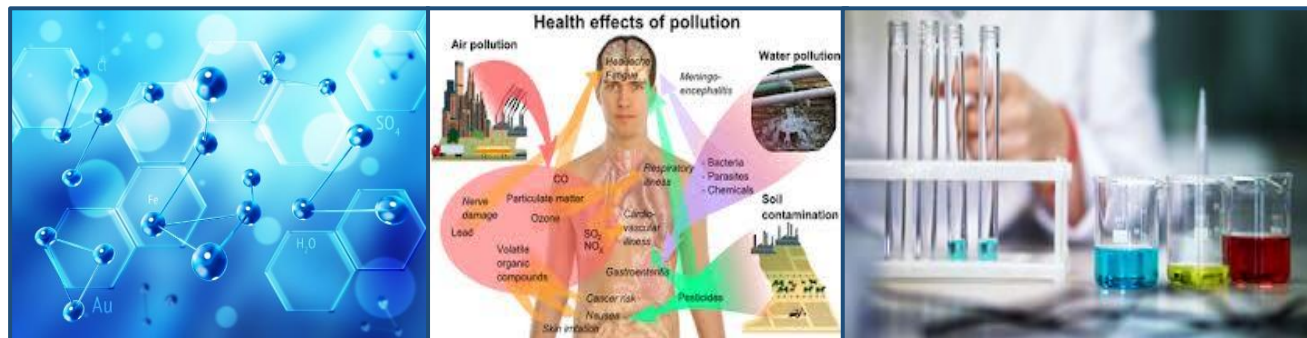




Description of the educational component

- The elective educational component of “Toxicological chemistry” is
- a professionally-oriented educational discipline
 - intended for applicants of higher education in specialty 226 “Pharmacy, Industrial Pharmacy”
 - studied in the VII semester

What does Toxicological Chemistry study ?



- chemical nature and reactions of toxic substances
- their origin and uses
- the chemical aspects of their exposure
- their transformation and elimination by biological systems

It focuses on the chemical formulas, structure and reactions of toxic substances

Toxicology is derived from the Latin *toxicus* – poisoned and *logos* – science. *Toxicus* comes from the Greek *toxon* i.e. bow – the ancient Greeks smeared the bows with the juices of poisonous plants

Aims



The purpose of studying the educational component of “Toxicological Chemistry” is

formation of skills and abilities for :

- determining the degree of safety of toxic substances based on their chemical nature, toxicokinetics and toxicodynamics
- the choice of methods for the determination of toxic substances in various samples of biological and non-biological origin
- interpretation of the obtained analytical data in order to prevent poisoning by various toxicants

Practical application of knowledge



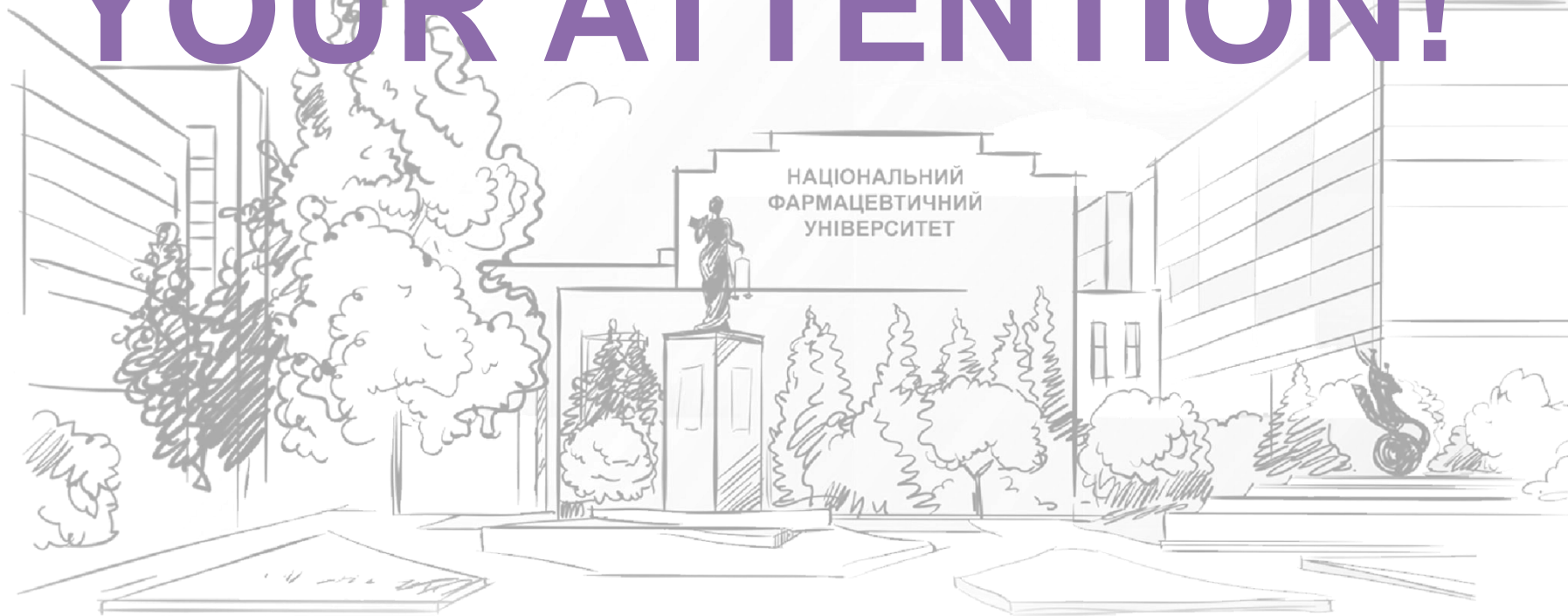
The educational component provides training the specialists for further professional activities in the field of :

- Forensic Medical Expertise
- Clinical Toxicology
- Expertise of illicit drugs in seized materials
- Ecotoxicology



We are waiting for you at the department of Medicinal Chemistry and wish you success in mastering the discipline of " Toxicological Chemistry "

THANK YOU FOR YOUR ATTENTION!



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