



MINISTRY OF HEALTH OF UKRAINE  
NATIONAL UNIVERSITY OF PHARMACY  
PHARMACEUTICAL TECHNOLOGY OF DRUGS DEPARTMENT

# MODELING OF SCIENTIFIC RESEARCH



# Modeling of scientific research



Modeling of scientific research in pharmacy is a set of means, methods, techniques and principles of scientific research, regularities of scientific knowledge in pharmacy, as well as forms of presentation of the results of scientific research.

In general, modeling is a plan for solving the tasks of scientific research.

# Modeling of scientific research

The purpose of the educational component is to acquire knowledge and skills regarding the application of basic methods and principles of conducting scientific research in pharmacy, as well as the form of presentation of the results of scientific research.

In the course of teaching the educational component «Modeling of Scientific Research» the following methods of learning are used:

- verbal (lectures);
- demonstrative (practical classes);
- practical (solving situational tasks);
- searching learning methods (preparation for practical classes, testing, content module control).

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- mastering the methodology and basic concepts, content and functions of science;
- classification of scientific research methods, definition and mastering of the main stages of the scientific organization of the research process;
- mastering the systematization of primary sources of scientific information and its use, concepts, functions and main types of scientific publications, the structure of theses and scientific articles;
- assimilation of methodical methods of presentation of scientific material, sequence of performance of qualification (master's) work, rules of work on its text and preparation for defense.

2

3

# Modeling of scientific research



## ***The subject of the educational component is:***

- mastering methodological approaches to conducting scientific research;
- analysis of theoretical and empirical research methods;
- rational organization of the research process;
- rules for searching scientific literature;
- classification and rules of working with sources of scientific information;
- the main stages, planning and writing of a qualification (master's) thesis.

# Modeling of scientific research



## ***The main topics of the educational component***

Science as a sphere of human activity

Methods of scientific research

Organization and conduct of scientific research

Documentary information and its types

Search and analysis of scientific information

Scientific publication: concepts, functions, main types

Organization of the graduation qualification (master's) work

Scientific research at the National Pharmaceutical University

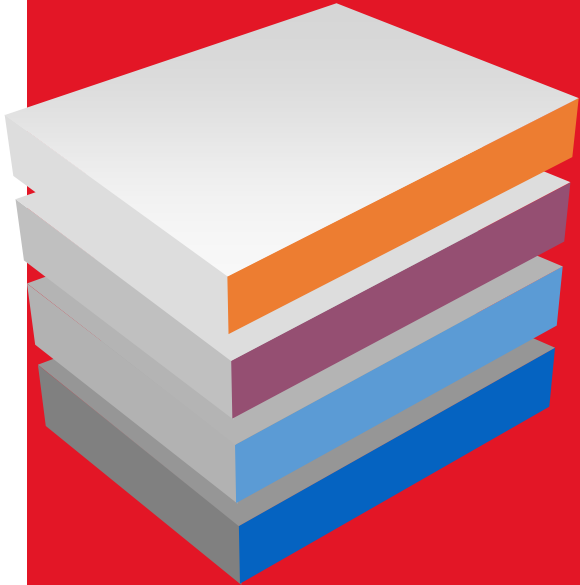
## ***The structure of the educational component***

90 hours and 3 ECTS credits are allocated to the study of the educational component.

# Modeling of scientific research

**After studying the course, applicants of higher education will master:**

- basic principles of scientific creativity;
- methodical methods of presentation of scientific material;
- methods of searching for scientific information;
- rules of preparation for publication of scientific publications;
- knowledge about the structure and requirements for the preparation of a qualification (master's) thesis



Today you are studying on the second year and it seems that the study is long term



And tomorrow, you have to defend your master's thesis





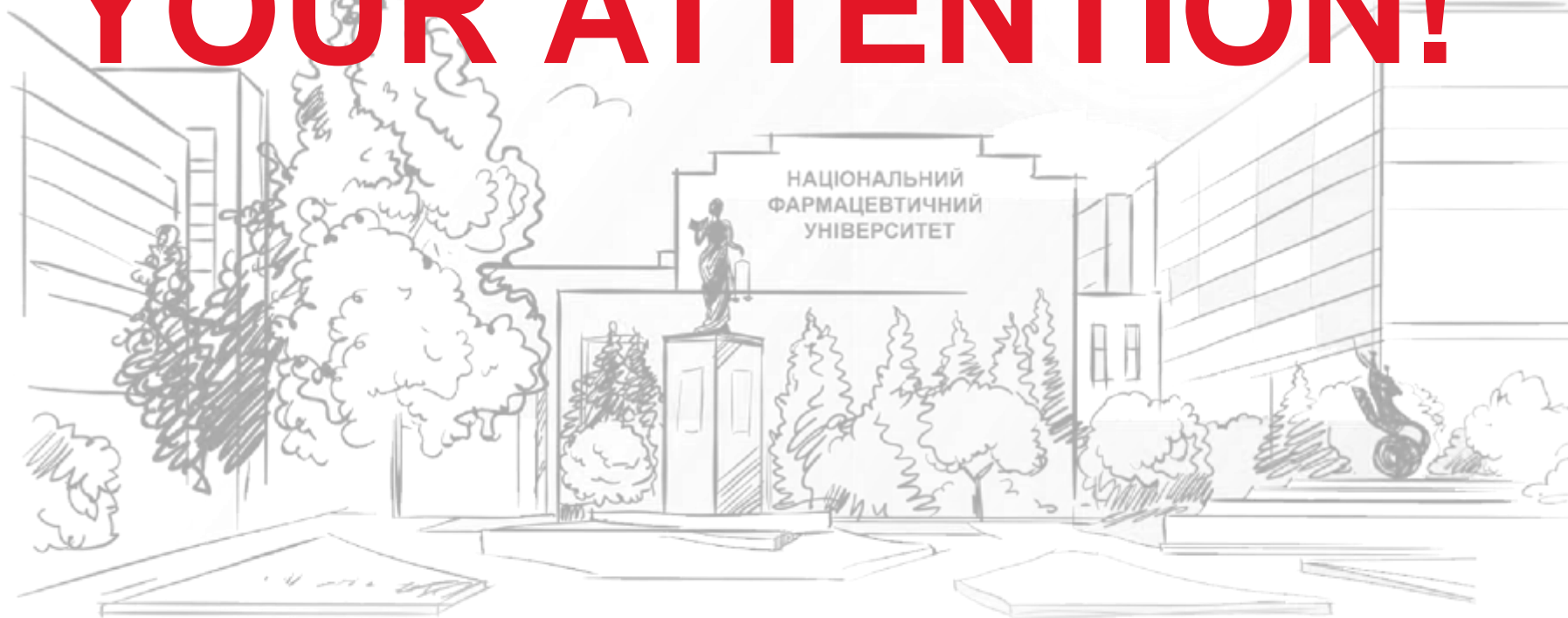


# DEAR APPLICANTS OF HIGHER EDUCATION!

*The entire author team wishes you success in studying the educational component "Modeling of Scientific Research" and hopes that this course will contribute to the preparation and defense of a qualification (master's) thesis, as well as reveal a lot of new and useful information.*

*Enjoy your studies!*

# THANK YOU FOR YOUR ATTENTION!



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