

**SYLLABUS OF THE EDUCATIONAL COMPONENT**  
**CURRENT ISSUES OF DRUG ADDICTION AND TOXIC ADDICTION**

(the name of the educational component)

**for applicants for higher education of 2 year of study full-time form of education (2023\2024 year of study)**

**of educational program «Pharmacy»**

(Educational Program Name)

**in specialty «226 Pharmacy, industrial pharmacy»**

**in specialization «226.01 Pharmacy»**

(Code and Specialization Name)

(Code and Specialty Name)

**field of knowledge «22 Public Health»**

(Code and Knowledge Field Name)

**training for Master**

(Higher Educational Level Name)

**TEACHER**



**Baiurka  
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**1. The name of higher education establishment and department:** National University of Pharmacy, department of Medicinal Chemistry.

**2. Address of the department:** 4, Valentynivs'ka str., Kharkiv, 61168.

**3. Web site of the department:** <https://medchem.nuph.edu.ua/en/main/>

**4. Information about teacher:**

**Baiurka Serhii Vasylovych**

Doctor of Pharmacy, Professor, Professor of the Medicinal Chemistry Department of National University of Pharmacy. The experience of a scientific and a scientific and pedagogical activity is 31 years. Reads the courses of "Toxicological Chemistry", "Medical and Analytical Toxicology" in ukrainian and english. Scientific interests deal with chemical-toxicological analysis of antidepressant drugs.

**5. Consultations:** The consultations take place every Monday from 12.00 to 12.50. Consultations are carried out by prof. Baiurka S.V.

**6. Brief summary of the educational component:** Current Issues of Drug Addiction and Toxic Addiction is an optional educational component. It combines the training of a pharmacy specialist in the diagnosis of alcohol and drug intoxication, as well as the provision of first aid and prevention of these diseases. This educational component is closely related to everyday life, because the problem of the spread of alcoholism, drug addiction and toxic addiction is relevant and needs to be informed. The educational component «Current Issues of Drug Addiction and Toxic Addiction» contributes to the formation of positive thinking about a healthy lifestyle, skills in differentiating alcohol or drug intoxication in applicants of higher education, encourages the use of methods of prevention of alcoholism, drug addiction and drug addiction in the immediate environment.

**7. The purpose statement of studying the educational component:** is acquisition by the higher education students of a set of knowledge about the prevalence and general principles of prevention of modern diseases of civilization - drug addiction, toxic addiction and alcoholism, which pose a real threat to the safety of an individual and society as a whole.

**8. Competences in accordance with the educational program:**

Hard-skills / Professional (special) competences (PC):

**PC 14.** Ability to organize and carry out the manufacturing activities of pharmacies for the manufacture of medications in various dosage forms due to the prescriptions and orders of medical institutions, including technology justification and selection of auxiliary materials in accordance with the rules of Good Pharmacy Practice (GPP).

**PC 15.** Ability to organize and participate in the production of medications in the context of pharmaceutical companies, including the selection and justification of the technological process, equipment in accordance with the requirements of Good Manufacturing Practice (GMP) with the appropriate development and design of the necessary documentation. Determine the stability of medications.

**9. The program learning outcomes: (PLO):**

**PLO 2.** To apply knowledge of general and professional disciplines in professional activities.

**PLO 18.** To select biological objects of analysis, to carry out the definition of xenobiotics and their metabolites in biological environments and to estimate the received results taking into account their distribution in an organism.

**10. Status of the educational component:** selective.

**11. Prerequisites of the educational component:** «Current Issues of Drug Addiction and Toxic Addiction» is based on the study of the physicochemical properties of inorganic and organic substances (inorganic, organic and analytical chemistry courses), biochemical transformations occurring in the body (biochemistry course), the structure of organs, body systems and their disorders (anatomy, physiology, pathology and pharmacology) and integrates with these educational components.

**12. The volume of the educational component:** Number of ECTS credits – 3, number of hours per educational component: general – 90, lectures – 14, seminars – 18, individual work – 58.

**13. Organization of training:**

**The format of teaching the educational component**

**Content of the educational component:**

<b>Module 1. Current Issues of Drug Addiction and Toxic Addiction</b>
<b>Topic 1.</b> Introduction into the educational component «Current Issues of Drug Addiction and Toxic Addiction». Definition of basic concepts. Classification of narcotic and psychotropic substances. Organization of treatment of drug addiction and toxic addiction in Ukraine.
<b>Topic 2.</b> Pharmaceutical aspects and basics of prevention of alcoholism and smoking.
<b>Topic 3.</b> Pharmaceutical aspects and basics of prevention in the use of opiates, hallucinogens, amphetamines and dependence on them.
<b>Topic 4.</b> Pharmaceutical aspects and basics of prevention when using cocaine, cannabinoids, psychotropic drugs (tranquilizers, sleeping pills, anticonvulsants, etc.) and dependence on them.
<b>Semester Supervision of Module 1</b>

**14. Forms and types of academic achievements supervision:**

*Forms and types of academic achievements supervision*

*Progress supervision:* oral survey, writing test tasks, solving situational problems.

*Supervision of content modules:* preparation of test tasks, solution of situational problems.

*Semester exam:* not provided)

*Semester control form:* semester credit.

*Conditions for admission to the supervision of content modules:* For admission to the supervision of module 1, it is necessary to have a minimum number of points for the topics (seminars).

*Conditions for admission to semester supervision:* A current rating of more than 48 points, absence of missed seminars, fulfillment of all requirements stipulated in the work program of the educational component.

**15. Evaluation system of the educational component:**

*Evaluation system of the educational component: The results of the semester supervision in the form of a semester credit are evaluated on a 100-point, non-differentiated scale ("passed", "failed") and on the ECTS scale.*

*Points from the educational component are calculated according to this ratio:*

Types of evaluation	Maximum number of points (% of the number of points per module - for content modules)
<b>Module 1. Current Issues of Drug Addiction and Toxic Addiction</b>	
<b>Topic 1. Introduction into the educational component «Current Issues of Drug Addiction and Toxic Addiction». Definition of basic concepts. Classification of narcotic and psychotropic substances. Organization of treatment of drug addiction and toxic addiction in Ukraine.</b> work in classes (oral survey, writing test tasks, solving situational problems);	20 (20%)
<b>Topic 2. Pharmaceutical aspects and basics of prevention of alcoholism and smoking.</b> work in classes (oral survey, writing test tasks, solving situational problems)	20 (20%)
<b>Topic 3. Pharmaceutical aspects and basics of prevention in the use of opiates, hallucinogens, amphetamines and dependence on them.</b> work in classes (oral survey, writing test tasks, solving situational problems)	20 (20%)
<b>Topic 4. Pharmaceutical aspects and basics of prevention when using cocaine, cannabinoids, psychotropic drugs (tranquilizers, sleeping pills, anticonvulsants, etc.) and dependence on them.</b> work in classes (oral survey, writing test tasks, solving situational problems)	20 (20%)
<i>Final test of CM 1 assimilation.</i>	20 (20%)
<b>Semester Supervision of Module 1</b>	100

**The individual work of applicants for higher education is evaluated during the progress supervision and during the content module supervision.**

**16. Academic policies of the educational component:**

*The policy of the educational component ("rules of the game") is determined by the requirements of the department to the applicant for higher education when studying the educational component regarding academic integrity, regarding attending classes, regarding deadlines, working out, increasing the rating, liquidating academic debts, regarding contesting the evaluation of the educational component (appeals), etc. In this point, the Regulations and other normative documents of the National University of Pharmacy are specified, in accordance with which requirements are set for the applicant for higher education when studying the educational component and the policy of the department is formed.*

*Academic Integrity Policy.* It is based on the principles of academic integrity stated in the POL "On measures to prevent cases of academic plagiarism at the National University of Pharmacy". Cheating during the evaluation of an applicant for higher education during supervision activities in practical (seminar, laboratory) classes, supervision of content modules and the semester exam is prohibited (including the use of mobile devices). Abstracts must have correct text references to the used literature. The detection of signs of academic dishonesty in the student's written work is a reason for the teacher not to credit it.

*Class attendance policy.* An applicant for higher education is obliged to attend classes (POL "On the organization of the educational process of the National University of Pharmacy") according to the schedule (<https://nuph.edu.ua/rozklad-zanyat/>), to observe ethical norms of behavior.

*Policy regarding deadlines, working out, rating increase, liquidation of academic debts.* The completion of missed classes by an applicant for higher education is carried out in accordance with the POL "Regulations

on the completion of missed classes by applicants and the procedure for eliminating academic differences in the curricula of the National University of Pharmacy" in accordance with the schedule for working out missed classes established by the department. Increasing the rating and liquidating academic debts from the educational component is carried out by the applicants in accordance with the procedure specified in the POL "On the procedure for evaluating the results of training of applicants for higher education at the National University of Pharmacy ". Applicants of higher education are obliged to comply with all deadlines set by the department for the completion of written works from the educational component. Works that are submitted late without valid reasons are assessed at a lower grade - up to 20% of the maximum number of points for this type of work.

*Policy on appeals of evaluation of the educational component (appeals).* Applicants for higher education have the right to contest (appeal) the evaluation of the educational component obtained during control measures. The appeal is carried out in accordance with the POL "Regulations on appealing the results of the final supervision of knowledge by applicants of higher education at the National University of Pharmacy".

**17. Information and educational and methodical support of the educational component:**

<b>The main reading suggestions</b>	<ol style="list-style-type: none"> <li>1. Karpushyna S. A. Toxicological Chemistry with Analytical Toxicology : Textbook for students of higher education institutions / S. A. Karpushyna, S.V. Baiurka : NUPh, 2021. — 352 p.</li> <li>2. Karpushyna S. A. Collection of Multiple Choice Questions on Toxicological Chemistry with answers and explanations / S. A. Karpushyna, K.Yu. Netiosova, S.V. Baiurka – Kh.: NUPh Publishing, 2018. – 92 p.</li> </ol>
<b>Supplementary reading suggestions for in-depth study of the educational component</b>	<ol style="list-style-type: none"> <li>1. Baselt C. R. Disposition of Toxic Drugs and Chemicals in Man / Randall C. Baselt. – [9-th ed.]. – Seal Beach, California : Biomedical Publications, 2011. – 1900 p.</li> <li>2. Clarke's analysis of drugs and poisons in pharmaceuticals, body fluids and postmortem material: 4-th edition / A. C. Moffat; M.D. Osselton; B. Widdop [et al.]. – London, Chicago: Pharmaceutical Press, 2011. – 2736 p.</li> </ol>
<b>Current electronic information resources (magazines, websites) for in-depth study of the educational component</b>	<ol style="list-style-type: none"> <li>1. <a href="https://www.ncbi.nlm.nih.gov/pmc/">https://www.ncbi.nlm.nih.gov/pmc/</a></li> <li>2. <a href="https://apps.who.int/iris/handle/10665/42020">https://apps.who.int/iris/handle/10665/42020</a></li> <li>3. <a href="https://www.unodc.org/unodc/en/scientists/guidance-for-the-validation-of-analytical-methodology-and-calibration-of-equipment.html">https://www.unodc.org/unodc/en/scientists/guidance-for-the-validation-of-analytical-methodology-and-calibration-of-equipment.html</a></li> <li>4. <a href="http://www.ich.org/fileadmin/Public_Web_Site/ICH_Products/Guidelines/Quality/Q2_R1/Step4/Q2_R1__Guideline.pdf">http://www.ich.org/fileadmin/Public_Web_Site/ICH_Products/Guidelines/Quality/Q2_R1/Step4/Q2_R1__Guideline.pdf</a></li> </ol> <p>1. Moodle distance learning system <a href="https://pharmel.kharkiv.edu/moodle/course/index.php?categoryid=309">https://pharmel.kharkiv.edu/moodle/course/index.php?categoryid=309</a></p> <p>2. Site of library of NUPh <a href="http://lib.nuph.edu.ua">http://lib.nuph.edu.ua</a></p> <p>3. Site of scientific library of NUPh <a href="http://irbis.nuph.edu.ua">http://irbis.nuph.edu.ua</a></p> <p>4. Site of electronic archive site of NUPh <a href="http://dspace.nuph.edu.ua">http://dspace.nuph.edu.ua</a></p>
<b>Moodle distance learning system</b>	<p><a href="https://pharmel.kharkiv.edu/moodle/course/index.php?categoryid=309">https://pharmel.kharkiv.edu/moodle/course/index.php?categoryid=309</a></p>

**18. Technical support and software of the educational component:** multimedia projector Epson EB-E350, multimedia projector Mitsubishi EX 10, touch screen 23" HP 2310ti Touch, LED panel, 1080p (Full HD), computers.

A set of services for organizing online and distance learning – Google Workspace for Education Standard, ZOOM video conferencing software, modular object-oriented dynamic learning environment MOODLE 3.9.8.